Smart Data Models

Entity: Account

document generated automatically

Global description: **A financial tool for tracking value accrued for a particular purpose. In the healthcare field, used to track charges for a patient, cost centers, etc.**

version: 0.0.1

List of properties

[*] If there is not a type in an attribute is because it could have several types or different formats/patterns

- `_description[object]`: Extensions for description

    - `extension[array]`: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

- `_implicitRules[object]`: Extensions for implicitRules

    - `extension[array]`: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

- `_language[object]`: Extensions for language

    - `extension[array]`: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

- `_name[object]`: Extensions for name

    - `extension[array]`: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

- `_status[object]`: Extensions for status

- `extension[array]`: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

- `address[object]`: The mailing address . Model: https://schema.org/address

  - `addressCountry[string]`: The country. For example, Spain . Model: https://schema.org/addressCountry

  - `addressLocality[string]`: The locality in which the street address is, and which is in the region . Model: https://schema.org/addressLocality

  - `addressRegion[string]`: The region in which the locality is, and which is in the country . Model: https://schema.org/addressRegion

  - `district[string]`: A district is a type of administrative division that, in some countries, is managed by the local government

  - `postOfficeBoxNumber[string]`: The post office box number for PO box addresses. For example, 03578 . Model: https://schema.org/postOfficeBoxNumber

  - `postalCode[string]`: The postal code. For example, 24004 . Model: https://schema.org/https://schema.org/postalCode

  - `streetAddress[string]`: The street address . Model: https://schema.org/streetAddress

- `alternateName[string]`: An alternative name for this item

- `areaServed[string]`: The geographic area where a service or offered item is provided . Model: https://schema.org/Text

- `contained[array]`: These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope

- `coverage[array]`: The party(s) that are responsible for covering the payment of this account, and what order should they be applied to the account

- `dataProvider[string]`: A sequence of characters identifying the provider of the harmonised data entity

- `dateCreated[date-time]`: Entity creation timestamp. This will usually be allocated by the storage platform

- `dateModified[date-time]`: Timestamp of the last modification of the entity. This will usually be allocated by the storage platform

- `description[string]`: Provides additional information about what the account tracks and how it is used

- `extension[array]`: May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

- `guarantor[array]`: The parties responsible for balancing the account if other payment options fall short

- `hl7type[object]`: Categorizes the account for reporting and searching purposes

  - `_text[object]`: Extensions for text

  - `coding[array]`: A reference to a code defined by a terminology system

  - `extension[array]`: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

  - `id[string]`: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces

- `id[*]`: Unique identifier of the entity

- `identifier[array]`: Unique identifier used to reference the account. Might or might not be intended for human use (e.g. credit card number)

- `implicitRules[string]`: A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc

- `language[string]`: The base language in which the resource is written

- `location[*]`: Geojson reference to the item. It can be Point, LineString, Polygon, MultiPoint, MultiLineString or MultiPolygon

- `meta[object]`: The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource

  - `_lastUpdated[object]`: Extensions for lastUpdated

  - `_source[object]`: Extensions for source

  - `_versionId[object]`: Extensions for versionId

  - `extension[array]`: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

  - `id[string]`: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces

  - `lastUpdated[string]`: When the resource last changed - e.g. when the version changed

  - `profile[array]`: A list of profiles (references to [[[StructureDefinition]]] resources) that this resource claims to conform to. The URL is a reference to [[[StructureDefinition.url]]]

  - `security[array]`: Security labels applied to this resource. These tags connect specific resources to the overall security policy and infrastructure

  - `source[string]`: A uri that identifies the source system of the resource. This provides a minimal amount of [[[Provenance]]] information that can be used to track or differentiate the source of information in the resource. The source may identify another FHIR server, document, message, database, etc

  - `tag[array]`: Tags applied to this resource. Tags are intended to be used to identify and relate resources to process and workflow, and applications are not required to consider the tags when interpreting the meaning of a resource

- `modifierExtension[array]`: May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing elements descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.

Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself)

- `name[string]`: Name used for the account when displaying it to humans in reports, etc

- `owner[object]`: Indicates the service area, hospital, department, etc. with responsibility for managing the Account

  - `_display[object]`: Extensions for display

  - `_reference[object]`: Extensions for reference

  - `_type[object]`: Extensions for type

  - `display[string]`: Plain text narrative that identifies the resource in addition to the resource reference

  - `extension[array]`: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

  - `id[string]`: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces

  - `identifier[object]`: An identifier for the target resource. This is used when there is no way to reference the other resource directly, either because the entity it represents is not available through a FHIR server, or because there is no way for the author of the resource to convert a known identifier to an actual location. There is no requirement that a Reference.identifier point to something that is actually exposed as a FHIR instance, but it SHALL point to a business concept that would be expected to be exposed as a FHIR instance, and that instance would need to be of a FHIR resource type allowed by the reference

  - `reference[string]`: A reference to a location at which the other resource is found. The reference may be a relative reference, in which case it is relative to the service base URL, or an absolute URL that resolves to the location where the resource is found. The reference may be version specific or not. If the reference is not to a FHIR RESTful server, then it should be assumed to be version specific. Internal fragment references (start with '#') refer to contained resources

- `partOf[object]`: Reference to a parent Account

- _display[object]: Extensions for display

- _reference[object]: Extensions for reference

- _type[object]: Extensions for type

- display[string]: Plain text narrative that identifies the resource in addition to the resource reference

- extension[array]: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

- id[string]: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces

- identifier[object]: An identifier for the target resource. This is used when there is no way to reference the other resource directly, either because the entity it represents is not available through a FHIR server, or because there is no way for the author of the resource to convert a known identifier to an actual location. There is no requirement that a Reference.identifier point to something that is actually exposed as a FHIR instance, but it SHALL point to a business concept that would be expected to be exposed as a FHIR instance, and that instance would need to be of a FHIR resource type allowed by the reference

- reference[string]: A reference to a location at which the other resource is found. The reference may be a relative reference, in which case it is relative to the service base URL, or an absolute URL that resolves to the location where the resource is found. The reference may be version specific or not. If the reference is not to a FHIR RESTful server, then it should be assumed to be version specific. Internal fragment references (start with '#') refer to contained resources

- resourceType[string]: This is a Account resource

- seeAlso[*]: list of uri pointing to additional resources about the item

- servicePeriod[object]: The date range of services associated with this account

  - _end[object]: Extensions for end

  - _start[object]: Extensions for start

- end[string]: The end of the period. If the end of the period is missing, it means no end was known or planned at the time the instance was created. The start may be in the past, and the end date in the future, which means that period is expected/planned to end at that time

- extension[array]: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

- id[string]: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces

- source[string]: A sequence of characters giving the original source of the entity data as a URL. Recommended to be the fully qualified domain name of the source provider, or the URL to the source object

- status[string]: Indicates whether the account is presently used/usable or not

- subject[array]: Identifies the entity which incurs the expenses. While the immediate recipients of services or goods might be entities related to the subject, the expenses were ultimately incurred by the subject of the Account

- text[object]: A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it clinically safe for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety

  - _status[object]: Extensions for status

  - div[*]: The actual narrative content, a stripped down version of XHTML

  - extension[array]: May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension

  - id[string]: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces

Required properties

- `id`
- `type`

Data model mapped from the original version 4.3 of HL7 standard. The original attribute -type- has been rename to -hl7type- because of the conflict with the mandatory type in NGSI. Besides other minor adaptations has been performed. See https://github.com/smart-data-models/dataModel.Hl7/blob/master/README.md at the subject root

Data Model description of properties

Sorted alphabetically (click for details)

full yaml details

```yaml
Account:
  description: 'A financial tool for tracking value accrued for a particular
purpose.  In the healthcare field, used to track charges for a patient, cost
centers, etc.'
  properties:
    _description:
      additionalProperties: false
      description: Extensions for description
      properties:
        extension:
          description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            additionalProperties: false
            properties:
              _url:
                additionalProperties: false
                description: Extensions for url
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
```

```yaml
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueBase64Binary:
                      additionalProperties: false
                      description: Extensions for valueBase64Binary
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueBoolean:
                      additionalProperties: false
                      description: Extensions for valueBoolean
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueCanonical:
                      additionalProperties: false
                      description: Extensions for valueCanonical
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueCode:
                      additionalProperties: false
                      description: Extensions for valueCode
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueDate:
                      additionalProperties: false
                      description: Extensions for valueDate
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                          type: object
                      _valueDateTime:
                        additionalProperties: false
                        description: Extensions for valueDateTime
                        properties:
                          extension:
                            description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                          type: object
                      _valueDecimal:
                        additionalProperties: false
                        description: Extensions for valueDecimal
                        properties:
                          extension:
                            description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                          type: object
                      _valueId:
                        additionalProperties: false
                        description: Extensions for valueId
                        properties:
                          extension:
                            description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                          type: object
                      _valueInstant:
                        additionalProperties: false
                        description: Extensions for valueInstant
                        properties:
                          extension:
                            description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                          type: object
                      _valueInteger:
                        additionalProperties: false
                        description: Extensions for valueInteger
                        properties:
                          extension:
```

```yaml
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueMarkdown:
                    additionalProperties: false
                    description: Extensions for valueMarkdown
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueOid:
                    additionalProperties: false
                    description: Extensions for valueOid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valuePositiveInt:
                    additionalProperties: false
                    description: Extensions for valuePositiveInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueString:
                    additionalProperties: false
                    description: Extensions for valueString
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueTime:
```

```yaml
                        additionalProperties: false
                        description: Extensions for valueTime
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _valueUnsignedInt:
                        additionalProperties: false
                        description: Extensions for valueUnsignedInt
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _valueUri:
                        additionalProperties: false
                        description: Extensions for valueUri
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _valueUrl:
                        additionalProperties: false
                        description: Extensions for valueUrl
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _valueUuid:
                        additionalProperties: false
                        description: Extensions for valueUuid
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
```

```yaml
                  internal references). This may be any string value that does not contain spaces
                          type: string
                    type: object
                extension:
                    description: 'May be used to represent additional information that
            is not part of the basic definition of the element. To make the use of extensions
            safe and manageable, there is a strict set of governance  applied to the
            definition and use of extensions. Though any implementer can define an extension,
            there is a set of requirements that SHALL be met as part of the definition of the
            extension'
                    items:
                      type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                url:
                    description: Source of the definition for the extension code - a
            logical name or a URL
                    pattern: ^\S*$
                    type: string
                valueAddress:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
            set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _city:
                        description: Extensions for city
                        type: string
                      _country:
                        description: Extensions for country
                        type: string
                      _district:
                        description: Extensions for district
                        type: string
                      _line:
                        description: Extensions for line
                        items:
                        type: array
                      _postalCode:
                        description: Extensions for postalCode
                        type: string
                      _state:
                        description: Extensions for state
                        type: string
                      _text:
                        description: Extensions for text
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      city:
                        description: 'The name of the city, town, suburb, village or
            other community or delivery center'
                        type: string
                      country:
                        description: Country - a nation as commonly understood or
            generally accepted
                        type: string
                      district:
                        description: The name of the administrative area (county)
                        type: string
                      extension:
                        description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance  applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
                        type: string
                      line:
                        description: 'This component contains the house number,
            apartment number, street name, street direction,  P.O. Box number, delivery hints,
            and similar address information'
                        items:
                        type: array
```

```yaml
                            period:
                              description: Time period when address was/is in use
                              type: string
                            postalCode:
                              description: A postal code designating a region defined by the
postal service
                              type: string
                            state:
                              description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                              type: string
                            text:
                              description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                              type: string
                            type:
                              description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                              enum:
                                - postal
                                - physical
                                - both
                            use:
                              description: The purpose of this address
                              enum:
                                - home
                                - work
                                - temp
                                - old
                                - billing
                          type: object
                    valueAge:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _unit:
                          description: Extensions for unit
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        code:
                          description: A computer processable form of the unit in some
unit representation system
                          type: string
                        comparator:
                          description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        system:
                          description:
The identification of the system that provides the coded form of the unit
                          type: string
                        unit:
```

```yaml
                            description: A human-readable form of the unit
                            type: string
                        value:
                            description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                            type: string
                    type: object
                valueAnnotation:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                        _authorString:
                            description: Extensions for authorString
                            type: string
                        _text:
                            description: Extensions for text
                            type: string
                        _time:
                            description: Extensions for time
                            type: string
                        authorReference:
                            description: The individual responsible for making the
annotation
                            type: string
                        authorString:
                            description: The individual responsible for making the
annotation
                            pattern: '^[ \r\n\t\S]+$'
                            type: string
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        text:
                            description: The text of the annotation in markdown format
                            type: string
                        time:
                            description: Indicates when this particular annotation was
made
                            type: string
                    type: object
                valueAttachment:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                        _contentType:
                            description: Extensions for contentType
                            type: string
                        _creation:
                            description: Extensions for creation
                            type: string
                        _data:
                            description: Extensions for data
                            type: string
                        _hash:
                            description: Extensions for hash
                            type: string
                        _language:
                            description: Extensions for language
                            type: string
                        _size:
                            description: Extensions for size
                            type: string
                        _title:
                            description: Extensions for title
                            type: string
                        _url:
                            description: Extensions for url
                            type: string
                        contentType:
                            description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                            type: string
                        creation:
```

                    description: The date that the attachment was first created
                    type: string
                data:
                    description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                    type: string
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                hash:
                    description: The calculated hash of the data using SHA-1.
Represented using base64
                    type: string
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                language:
                    description: The human language of the content. The value can
be any valid value according to BCP 47
                    type: string
                size:
                    description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                    type: string
                title:
                    description: A label or set of text to display in place of the
data
                    type: string
                url:
                    description: A location where the data can be accessed
                    type: string
              type: object
            valueBase64Binary:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                type: string
            valueBoolean:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^true|false$
                type: boolean
            valueCanonical:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
            valueCode:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[^\s]+(\s[^\s]+)*$
                type: string
            valueCodeableConcept:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _text:
                    description: Extensions for text
                    type: string
                  coding:
                    description: A reference to a code defined by a terminology
system
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  text:

```yaml
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                          type: string
                    type: object
                valueCodeableReference:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      concept:
                        description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                          type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      reference:
                        description: A reference to a resource the provides exact
details about the information being referenced
                          type: string
                    type: object
                valueCoding:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _display:
                        description: Extensions for display
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _userSelected:
                        description: Extensions for userSelected
                        type: string
                      _version:
                        description: Extensions for version
                        type: string
                      code:
                        description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                          type: string
                      display:
                        description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                          type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      system:
                        description:
The identification of the code system that defines the meaning of the symbol in the
code
                          type: string
                      userSelected:
                        description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                          type: string
                      version:
                        description: 'The version of the code system which was used
```

```yaml
                  when choosing this code. Note that a well-maintained code system does not need the
                  version reported, because the meaning of codes is consistent across versions.
                  However this cannot consistently be assured, and when the meaning is not
                  guaranteed to be consistent, the version SHOULD be exchanged'
                        type: string
                    type: object
                valueContactDetail:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _name:
                      description: Extensions for name
                      type: string
                    extension:
                      description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                        type: string
                    name:
                      description: The name of an individual to contact
                      type: string
                    telecom:
                      description: The contact details for the individual (if a name
                  was provided) or the organization
                      items:
                        type: array
                    type: object
                valueContactPoint:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _rank:
                      description: Extensions for rank
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    extension:
                      description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                        type: string
                    period:
                      description: Time period when the contact point was/is in
                  use
                        type: string
                    rank:
                      description: Specifies a preferred order in which to use a set
                  of contacts. ContactPoints with lower rank values are more preferred than those
                  with higher rank values
                        type: string
                    system:
                      description: Telecommunications form for contact point - what
                  communications system is required to make use of the contact
                      enum:
                        - phone
                        - fax
                        - email
                        - pager
                        - url
                        - sms
                        - other
```

```yaml
                        use:
                          description: Identifies the purpose for the contact point
                          enum:
                            - home
                            - work
                            - temp
                            - old
                            - mobile
                        value:
                          description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                          type: string
                      type: object
                  valueContributor:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      contact:
                        description: Contact details to assist a user in finding and
communicating with the contributor
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      name:
                        description: The name of the individual or organization
responsible for the contribution
                        type: string
                      type:
                        description: The type of contributor
                        enum:
                          - author
                          - editor
                          - reviewer
                          - endorser
                    type: object
                  valueCount:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
```

```yaml
                        - <=
                        - '>='
                        - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
The identification of the system that provides the coded form of the unit
                  type: string
                unit:
                  description: A human-readable form of the unit
                  type: string
                value:
                  description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                  type: string
              type: object
            valueDataRequirement:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _limit:
                  description: Extensions for limit
                  type: string
                _mustSupport:
                  description: Extensions for mustSupport
                  items:
                  type: array
                _type:
                  description: Extensions for type
                  type: string
                codeFilter:
                  description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                  items:
                  type: array
                dateFilter:
                  description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                  items:
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                limit:
                  description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                  type: string
                mustSupport:
                  description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
                  items:
                  type: array
                profile:
```

```yaml
                            description: 'The profile of the required data, specified as
the uri of the profile definition'
                            items:
                            type: array
                          sort:
                            description: Specifies the order of the results to be
returned
                            items:
                            type: array
                          subjectCodeableConcept:
                            description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                            type: string
                          subjectReference:
                            description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                            type: string
                          type:
                            description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                            type: string
                        type: object
                    valueDate:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                    valueDateTime:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                      type: string
                    valueDecimal:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                      type: number
                    valueDistance:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _unit:
                          description: Extensions for unit
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        code:
                          description: A computer processable form of the unit in some
unit representation system
                          type: string
                        comparator:
                          description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
```

```yaml
                    internal references). This may be any string value that does not contain spaces
                        type: string
                    system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                    unit:
                        description: A human-readable form of the unit
                        type: string
                    value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                type: object
            valueDosage:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                    _asNeededBoolean:
                        description: Extensions for asNeededBoolean
                        type: string
                    _patientInstruction:
                        description: Extensions for patientInstruction
                        type: string
                    _sequence:
                        description: Extensions for sequence
                        type: string
                    _text:
                        description: Extensions for text
                        type: string
                    additionalInstruction:
                        description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                        items:
                        type: array
                    asNeededBoolean:
                        description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                        pattern: ^true|false$
                        type: boolean
                    asNeededCodeableConcept:
                        description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                        type: string
                    doseAndRate:
                        description: The amount of medication administered
                        items:
                        type: array
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    maxDosePerAdministration:
                        description: Upper limit on medication per administration
                        type: string
                    maxDosePerLifetime:
                        description: Upper limit on medication per lifetime of the
patient
                        type: string
                    maxDosePerPeriod:
                        description: Upper limit on medication per unit of time
                        type: string
                    method:
                        description: Technique for administering medication
                        type: string
                    modifierExtension:
                        description: |-
                            May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
```

To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                        Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                    items:
                      type: array
                  patientInstruction:
                    description: Instructions in terms that are understood by the
patient or consumer
                    type: string
                  route:
                    description: How drug should enter body
                    type: string
                  sequence:
                    description: Indicates the order in which the dosage
instructions should be applied or interpreted
                    type: string
                  site:
                    description: Body site to administer to
                    type: string
                  text:
                    description: Free text dosage instructions e.g. SIG
                    type: string
                  timing:
                    description: When medication should be administered
                    type: string
                type: object
              valueDuration:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:

```yaml
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                    type: object
                  valueExpression:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _description:
                        description: Extensions for description
                        type: string
                      _expression:
                        description: Extensions for expression
                        type: string
                      _language:
                        description: Extensions for language
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      description:
                        description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                        type: string
                      expression:
                        description: An expression in the specified language that
returns a value
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      language:
                        description: The media type of the language for the
expression
                        enum:
                          - text/cql
                          - text/fhirpath
                          - application/x-fhir-query
                          - text/cql-identifier
                          - text/cql-expression
                      name:
                        description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                        type: string
                      reference:
                        description: A URI that defines where the expression is
found
                        type: string
                    type: object
                  valueHumanName:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _family:
                        description: Extensions for family
                        type: string
                      _given:
                        description: Extensions for given
                        items:
                        type: array
                      _prefix:
                        description: Extensions for prefix
                        items:
                        type: array
                      _suffix:
                        description: Extensions for suffix
                        items:
                        type: array
                      _text:
                        description: Extensions for text
                        type: string
```

```yaml
                    _use:
                      description: Extensions for use
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    family:
                      description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
                      type: string
                    given:
                      description: Given name
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Indicates the period of time when this name was
valid for the named person
                      type: string
                    prefix:
                      description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                      items:
                      type: array
                    suffix:
                      description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                      items:
                      type: array
                    text:
                      description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                      type: string
                    use:
                      description: Identifies the purpose for this name
                      enum:
                        - usual
                        - official
                        - temp
                        - nickname
                        - anonymous
                        - old
                        - maiden
                  type: object
                valueId:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[A-Za-z0-9\-\.]{1,64}$
                  type: string
                valueIdentifier:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _system:
                      description: Extensions for system
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    assigner:
                      description: Organization that issued/manages the
identifier
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      period:
                        description: Time period during which identifier is/was valid
for use
                        type: string
                      system:
                        description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                        type: string
                      type:
                        description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                        type: string
                      use:
                        description: The purpose of this identifier
                        enum:
                          - usual
                          - official
                          - temp
                          - secondary
                          - old
                      value:
                        description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                        type: string
                    type: object
                valueInstant:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                  type: string
                valueInteger:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^-?([0]|([1-9][0-9]*))$
                  type: number
                valueMarkdown:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                valueMoney:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _currency:
                      description: Extensions for currency
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    currency:
                      description: ISO 4217 Currency Code
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      value:
                        description: Numerical value (with implicit precision)
                        type: string
                    type: object
                valueOid:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                  type: string
                valueParameterDefinition:
```

```yaml
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _documentation:
                        description: Extensions for documentation
                        type: string
                      _max:
                        description: Extensions for max
                        type: string
                      _min:
                        description: Extensions for min
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      documentation:
                        description: A brief discussion of what the parameter is for
and how it is used by the module
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      max:
                        description: The maximum number of times this element is
permitted to appear in the request or response
                        type: string
                      min:
                        description: The minimum number of times this parameter SHALL
appear in the request or response
                        type: string
                      name:
                        description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                        type: string
                      profile:
                        description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                        type: string
                      type:
                        description: The type of the parameter
                        type: string
                      use:
                        description: Whether the parameter is input or output for the
module
                        type: string
                    type: object
                  valuePeriod:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _end:
                        description: Extensions for end
                        type: string
                      _start:
                        description: Extensions for start
                        type: string
                      end:
                        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      start:
                        description: The start of the period. The boundary is
inclusive
                        type: string
                    type: object
                  valuePositiveInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[1-9][0-9]*$
                    type: number
                  valueQuantity:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  valueRange:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  high:
                    description: The high limit. The boundary is inclusive
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  low:
                    description: The low limit. The boundary is inclusive
                    type: string
                type: object
              valueRatio:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  denominator:
                    description: The value of the denominator
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  numerator:
                    description: The value of the numerator
                    type: string
                type: object
              valueRatioRange:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  denominator:
                    description: The value of the denominator
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  highNumerator:
                    description: The value of the high limit numerator
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  lowNumerator:
                    description: The value of the low limit numerator
                    type: string
                type: object
              valueReference:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _display:
                    description: Extensions for display
                    type: string
                  _reference:
                    description: Extensions for reference
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  display:
                    description: Plain text narrative that identifies the resource
in addition to the resource reference
                    type: string
```

```yaml
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            identifier:
              description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
              type: string
            reference:
              description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
              type: string
            type:
              description: |-
                The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
              type: string
          type: object
        valueRelatedArtifact:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _citation:
              description: Extensions for citation
              type: string
            _display:
              description: Extensions for display
              type: string
            _label:
              description: Extensions for label
              type: string
            _type:
              description: Extensions for type
              type: string
            _url:
              description: Extensions for url
              type: string
            citation:
              description:
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
              type: string
            display:
              description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
              type: string
            document:
              description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: array
```

```yaml
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    label:
                      description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
                      type: string
                    resource:
                      description: 'The related resource, such as a library, value
set, profile, or other knowledge resource'
                      type: string
                    type:
                      description: The type of relationship to the related
artifact
                      enum:
                        - documentation
                        - justification
                        - citation
                        - predecessor
                        - successor
                        - derived-from
                        - depends-on
                        - composed-of
                    url:
                      description: A url for the artifact that can be followed to
access the actual content
                      type: string
                  type: object
                valueSampledData:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _data:
                      description: Extensions for data
                      type: string
                    _dimensions:
                      description: Extensions for dimensions
                      type: string
                    _factor:
                      description: Extensions for factor
                      type: string
                    _lowerLimit:
                      description: Extensions for lowerLimit
                      type: string
                    _period:
                      description: Extensions for period
                      type: string
                    _upperLimit:
                      description: Extensions for upperLimit
                      type: string
                    data:
                      description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                      type: string
                    dimensions:
                      description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    factor:
                      description:
A correction factor that is applied to the sampled data points before they are
added to the origin
                      type: string
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    lowerLimit:
                      description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                      type: string
```

```yaml
                  origin:
                    description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                    type: string
                  period:
                    description: 'The length of time between sampling times,
measured in milliseconds'
                    type: string
                  upperLimit:
                    description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                    type: string
                required:
                  - origin
                type: object
              valueSignature:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _data:
                    description: Extensions for data
                    type: string
                  _sigFormat:
                    description: Extensions for sigFormat
                    type: string
                  _targetFormat:
                    description: Extensions for targetFormat
                    type: string
                  _when:
                    description: Extensions for when
                    type: string
                  data:
                    description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  onBehalfOf:
                    description: A reference to an application-usable description
of the identity that is represented by the signature
                    type: string
                  sigFormat:
                    description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                    type: string
                  targetFormat:
                    description:
A mime type that indicates the technical format of the target resources signed by
the signature
                    type: string
                  type:
                    description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                    items:
                    type: array
                  when:
                    description: When the digital signature was signed
                    type: string
                  who:
                    description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                    type: string
                required:
                  - type
                  - who
                type: object
              valueString:
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
                    type: string
                  valueTiming:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _event:
                        description: Extensions for event
                        items:
                        type: array
                      code:
                        description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                        type: string
                      event:
                        description: Identifies specific times when the event
occurs
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      modifierExtension:
                        description: |-
                          May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                          Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                        items:
                        type: array
                      repeat:
                        description: A set of rules that describe when the event is
scheduled
                        type: string
                    type: object
                  valueTriggerDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      _timingDate:
                        description: Extensions for timingDate
                        type: string
                      _timingDateTime:
                        description: Extensions for timingDateTime
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      condition:
                        description: A boolean-valued expression that is evaluated in
```

```
                    the context of the container of the trigger definition and returns whether or not
                    the trigger fires
                                    type: string
                                data:
                                    description: 'The triggering data of the event (if this is a
                    data trigger). If more than one data is requirement is specified, then all the
                    data requirements must be true'
                                    items:
                                    type: array
                                extension:
                                    description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                                    items:
                                    type: array
                                id:
                                    description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                    type: string
                                name:
                                    description: 'A formal name for the event. This may be an
                    absolute URI that identifies the event formally (e.g. from a trigger registry), or
                    a simple relative URI that identifies the event in a local context'
                                    type: string
                                timingDate:
                                    description: The timing of the event (if this is a periodic
                    trigger)
                                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
                    (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                                    type: string
                                timingDateTime:
                                    description: The timing of the event (if this is a periodic
                    trigger)
                                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
                    (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
                    [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                                    type: string
                                timingReference:
                                    description: The timing of the event (if this is a periodic
                    trigger)
                                    type: string
                                timingTiming:
                                    description: The timing of the event (if this is a periodic
                    trigger)
                                    type: string
                                type:
                                    description: The type of triggering event
                                    enum:
                                        - named-event
                                        - periodic
                                        - data-changed
                                        - data-added
                                        - data-modified
                                        - data-removed
                                        - data-accessed
                                        - data-access-ended
                            type: object
                        valueUnsignedInt:
                            description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                            pattern: ^[0]|([1-9][0-9]*)$
                            type: number
                        valueUri:
                            description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                            pattern: ^\S*$
                            type: string
                        valueUrl:
                            description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                            pattern: ^\S*$
                            type: string
                        valueUsageContext:
                            additionalProperties: false
                            description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                            properties:
                                code:
                                    description: A code that identifies the type of context being
                    specified by this usage context
                                    type: string
                                extension:
                                    description: 'May be used to represent additional information
```

```yaml
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    valueCodeableConcept:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                    valueQuantity:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                    valueRange:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                    valueReference:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                  required:
                    - code
                  type: object
                valueUuid:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                  type: string
              type: object
          type: array
        id:
          description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
      type: object
      x-ngsi:
        type: Property
    _implicitRules:
      additionalProperties: false
      description: Extensions for implicitRules
      properties:
        extension:
          description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            additionalProperties: false
            properties:
              _url:
                additionalProperties: false
                description: Extensions for url
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
              _valueBase64Binary:
                additionalProperties: false
                description: Extensions for valueBase64Binary
                properties:
```

```yaml
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueBoolean:
                    additionalProperties: false
                    description: Extensions for valueBoolean
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueCanonical:
                    additionalProperties: false
                    description: Extensions for valueCanonical
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueCode:
                    additionalProperties: false
                    description: Extensions for valueCode
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueDate:
                    additionalProperties: false
                    description: Extensions for valueDate
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
```

```yaml
              _valueDateTime:
                additionalProperties: false
                description: Extensions for valueDateTime
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueDecimal:
                additionalProperties: false
                description: Extensions for valueDecimal
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueId:
                additionalProperties: false
                description: Extensions for valueId
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueInstant:
                additionalProperties: false
                description: Extensions for valueInstant
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueInteger:
                additionalProperties: false
                description: Extensions for valueInteger
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
```

```yaml
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                  _valueMarkdown:
                    additionalProperties: false
                    description: Extensions for valueMarkdown
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueOid:
                    additionalProperties: false
                    description: Extensions for valueOid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valuePositiveInt:
                    additionalProperties: false
                    description: Extensions for valuePositiveInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueString:
                    additionalProperties: false
                    description: Extensions for valueString
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueTime:
                    additionalProperties: false
                    description: Extensions for valueTime
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
                        definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueUnsignedInt:
                      additionalProperties: false
                      description: Extensions for valueUnsignedInt
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                    _valueUri:
                      additionalProperties: false
                      description: Extensions for valueUri
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                    _valueUrl:
                      additionalProperties: false
                      description: Extensions for valueUrl
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                    _valueUuid:
                      additionalProperties: false
                      description: Extensions for valueUuid
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
```

```
    extension'
                  items:
                    type: string
                  type: array
              id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              url:
                  description: Source of the definition for the extension code - a
logical name or a URL
                  pattern: ^\S*$
                  type: string
            valueAddress:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _city:
                    description: Extensions for city
                    type: string
                  _country:
                    description: Extensions for country
                    type: string
                  _district:
                    description: Extensions for district
                    type: string
                  _line:
                    description: Extensions for line
                    items:
                    type: array
                  _postalCode:
                    description: Extensions for postalCode
                    type: string
                  _state:
                    description: Extensions for state
                    type: string
                  _text:
                    description: Extensions for text
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  _use:
                    description: Extensions for use
                    type: string
                  city:
                    description: 'The name of the city, town, suburb, village or
other community or delivery center'
                    type: string
                  country:
                    description: Country - a nation as commonly understood or
generally accepted
                    type: string
                  district:
                    description: The name of the administrative area (county)
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  line:
                    description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                    items:
                    type: array
                  period:
                    description: Time period when address was/is in use
                    type: string
                  postalCode:
                    description: A postal code designating a region defined by the
postal service
                    type: string
                  state:
                    description: Sub-unit of a country with limited sovereignty in
```

```yaml
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                      type: string
                  text:
                      description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                      type: string
                  type:
                      description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                      enum:
                        - postal
                        - physical
                        - both
                  use:
                    description: The purpose of this address
                    enum:
                        - home
                        - work
                        - temp
                        - old
                        - billing
                type: object
            valueAge:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                      type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                  unit:
                      description: A human-readable form of the unit
                      type: string
                  value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                type: object
            valueAnnotation:
                additionalProperties: false
```

                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _authorString:
                          description: Extensions for authorString
                          type: string
                        _text:
                          description: Extensions for text
                          type: string
                        _time:
                          description: Extensions for time
                          type: string
                        authorReference:
                          description: The individual responsible for making the
annotation
                          type: string
                        authorString:
                          description: The individual responsible for making the
annotation
                          pattern: '^[\r\n\t\S]+$'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        text:
                          description: The text of the annotation in markdown format
                          type: string
                        time:
                          description: Indicates when this particular annotation was
made
                          type: string
                      type: object
                  valueAttachment:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _contentType:
                          description: Extensions for contentType
                          type: string
                        _creation:
                          description: Extensions for creation
                          type: string
                        _data:
                          description: Extensions for data
                          type: string
                        _hash:
                          description: Extensions for hash
                          type: string
                        _language:
                          description: Extensions for language
                          type: string
                        _size:
                          description: Extensions for size
                          type: string
                        _title:
                          description: Extensions for title
                          type: string
                        _url:
                          description: Extensions for url
                          type: string
                        contentType:
                          description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                          type: string
                        creation:
                          description: The date that the attachment was first created
                          type: string
                        data:
                          description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of

```yaml
      extensions safe and manageable, there is a strict set of governance  applied to
      the definition and use of extensions. Though any implementer can define an
      extension, there is a set of requirements that SHALL be met as part of the
      definition of the extension'
                      items:
                        type: array
                  hash:
                    description: The calculated hash of the data using SHA-1.
Represented using base64
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  language:
                    description: The human language of the content. The value can
be any valid value according to BCP 47
                    type: string
                  size:
                    description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                    type: string
                  title:
                    description: A label or set of text to display in place of the
data
                    type: string
                  url:
                    description: A location where the data can be accessed
                    type: string
                type: object
              valueBase64Binary:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                type: string
              valueBoolean:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^true|false$
                type: boolean
              valueCanonical:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueCode:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[^\s]+(\s[^\s]+)*$
                type: string
              valueCodeableConcept:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _text:
                    description: Extensions for text
                    type: string
                  coding:
                    description: A reference to a code defined by a terminology
system
                    items:
                      type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  text:
                    description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                    type: string
                type: object
              valueCodeableReference:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
                    properties:
                      concept:
                        description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      reference:
                        description: A reference to a resource the provides exact
details about the information being referenced
                        type: string
                    type: object
                  valueCoding:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _display:
                        description: Extensions for display
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _userSelected:
                        description: Extensions for userSelected
                        type: string
                      _version:
                        description: Extensions for version
                        type: string
                      code:
                        description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                        type: string
                      display:
                        description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the code system that defines the meaning of the symbol in the
code
                        type: string
                      userSelected:
                        description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                        type: string
                      version:
                        description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                        type: string
                    type: object
                  valueContactDetail:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
```

```yaml
            set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _name:
                      description: Extensions for name
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    name:
                      description: The name of an individual to contact
                      type: string
                    telecom:
                      description: The contact details for the individual (if a name
was provided) or the organization
                      items:
                      type: array
                  type: object
                valueContactPoint:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _rank:
                      description: Extensions for rank
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Time period when the contact point was/is in
use
                      type: string
                    rank:
                      description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                      type: string
                    system:
                      description: Telecommunications form for contact point - what
communications system is required to make use of the contact
                      enum:
                        - phone
                        - fax
                        - email
                        - pager
                        - url
                        - sms
                        - other
                    use:
                      description: Identifies the purpose for the contact point
                      enum:
                        - home
                        - work
                        - temp
                        - old
                        - mobile
                    value:
```

```yaml
                      description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                        type: string
                  type: object
                valueContributor:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _name:
                      description: Extensions for name
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    contact:
                      description: Contact details to assist a user in finding and
communicating with the contributor
                      items:
                      type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    name:
                      description: The name of the individual or organization
responsible for the contribution
                      type: string
                    type:
                      description: The type of contributor
                      enum:
                        - author
                        - editor
                        - reviewer
                        - endorser
                  type: object
                valueCount:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                        type: string
                    unit:
                      description: A human-readable form of the unit
                        type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                  type: object
                valueDataRequirement:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _limit:
                      description: Extensions for limit
                      type: string
                    _mustSupport:
                      description: Extensions for mustSupport
                      items:
                        type: array
                    _type:
                      description: Extensions for type
                      type: string
                    codeFilter:
                      description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                      items:
                        type: array
                    dateFilter:
                      description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                      items:
                        type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    limit:
                      description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                      type: string
                    mustSupport:
                      description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
                      items:
                        type: array
                    profile:
                      description: 'The profile of the required data, specified as
the uri of the profile definition'
                      items:
                        type: array
                    sort:
                      description: Specifies the order of the results to be
returned
                      items:
                        type: array
```

```yaml
                    subjectCodeableConcept:
                      description: 'The intended subjects of the data requirement.
    If this element is not provided, a Patient subject is assumed'
                      type: string
                    subjectReference:
                      description: 'The intended subjects of the data requirement.
    If this element is not provided, a Patient subject is assumed'
                      type: string
                    type:
                      description: 'The type of the required data, specified as the
    type name of a resource. For profiles, this value is set to the type of the base
    resource of the profile'
                      type: string
                  type: object
              valueDate:
                description: 'Value of extension - must be one of a constrained
    set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
    (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                type: string
              valueDateTime:
                description: 'Value of extension - must be one of a constrained
    set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
    (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
    [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                type: string
              valueDecimal:
                description: 'Value of extension - must be one of a constrained
    set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                type: number
              valueDistance:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
    set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
    unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
    represented - whether the actual value is greater or less than the stated value
    due to measurement issues; e.g. if the comparator is < , then the real value is <
    stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
    that is not part of the basic definition of the element. To make the use of
    extensions safe and manageable, there is a strict set of governance  applied to
    the definition and use of extensions. Though any implementer can define an
    extension, there is a set of requirements that SHALL be met as part of the
    definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
    internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
    The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
```

```yaml
              value:
                description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                type: string
              type: object
          valueDosage:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _asNeededBoolean:
                description: Extensions for asNeededBoolean
                type: string
              _patientInstruction:
                description: Extensions for patientInstruction
                type: string
              _sequence:
                description: Extensions for sequence
                type: string
              _text:
                description: Extensions for text
                type: string
              additionalInstruction:
                description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                items:
                type: array
              asNeededBoolean:
                description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                pattern: ^true|false$
                type: boolean
              asNeededCodeableConcept:
                description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                type: string
              doseAndRate:
                description: The amount of medication administered
                items:
                type: array
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              maxDosePerAdministration:
                description: Upper limit on medication per administration
                type: string
              maxDosePerLifetime:
                description: Upper limit on medication per lifetime of the
patient
                type: string
              maxDosePerPeriod:
                description: Upper limit on medication per unit of time
                type: string
              method:
                description: Technique for administering medication
                type: string
              modifierExtension:
                description: |-
                  May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                  Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                items:
```

```yaml
                    type: array
                  patientInstruction:
                    description: Instructions in terms that are understood by the
patient or consumer
                    type: string
                  route:
                    description: How drug should enter body
                    type: string
                  sequence:
                    description: Indicates the order in which the dosage
instructions should be applied or interpreted
                    type: string
                  site:
                    description: Body site to administer to
                    type: string
                  text:
                    description: Free text dosage instructions e.g. SIG
                    type: string
                  timing:
                    description: When medication should be administered
                    type: string
                type: object
              valueDuration:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                    type: string
                type: object
              valueExpression:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
```

```yaml
                    _description:
                      description: Extensions for description
                      type: string
                    _expression:
                      description: Extensions for expression
                      type: string
                    _language:
                      description: Extensions for language
                      type: string
                    _name:
                      description: Extensions for name
                      type: string
                    _reference:
                      description: Extensions for reference
                      type: string
                    description:
                      description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                      type: string
                    expression:
                      description: An expression in the specified language that
returns a value
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    language:
                      description: The media type of the language for the
expression
                      enum:
                        - text/cql
                        - text/fhirpath
                        - application/x-fhir-query
                        - text/cql-identifier
                        - text/cql-expression
                    name:
                      description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                      type: string
                    reference:
                      description: A URI that defines where the expression is
found
                      type: string
                  type: object
                valueHumanName:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _family:
                      description: Extensions for family
                      type: string
                    _given:
                      description: Extensions for given
                      items:
                      type: array
                    _prefix:
                      description: Extensions for prefix
                      items:
                      type: array
                    _suffix:
                      description: Extensions for suffix
                      items:
                      type: array
                    _text:
                      description: Extensions for text
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
definition of the extension'
              items:
              type: array
            family:
              description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
              type: string
            given:
              description: Given name
              items:
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            period:
              description: Indicates the period of time when this name was
valid for the named person
              type: string
            prefix:
              description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
              items:
              type: array
            suffix:
              description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
              items:
              type: array
            text:
              description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
              type: string
            use:
              description: Identifies the purpose for this name
              enum:
                - usual
                - official
                - temp
                - nickname
                - anonymous
                - old
                - maiden
          type: object
        valueId:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^[A-Za-z0-9\-\.]{1,64}$
          type: string
        valueIdentifier:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _system:
              description: Extensions for system
              type: string
            _use:
              description: Extensions for use
              type: string
            _value:
              description: Extensions for value
              type: string
            assigner:
              description: Organization that issued/manages the
identifier
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            period:
              description: Time period during which identifier is/was valid
```

```
                    for use
                        type: string
                    system:
                        description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                        type: string
                    type:
                        description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                        type: string
                    use:
                        description: The purpose of this identifier
                        enum:
                            - usual
                            - official
                            - temp
                            - secondary
                            - old
                    value:
                        description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                        type: string
                  type: object
                valueInstant:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                    type: string
                valueInteger:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?([0]|([1-9][0-9]*))$
                    type: number
                valueMarkdown:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                valueMoney:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _currency:
                        description: Extensions for currency
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      currency:
                        description: ISO 4217 Currency Code
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      value:
                        description: Numerical value (with implicit precision)
                        type: string
                  type: object
                valueOid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                valueParameterDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _documentation:
                        description: Extensions for documentation
                        type: string
                      _max:
                        description: Extensions for max
```

```yaml
                  type: string
                _min:
                  description: Extensions for min
                  type: string
                _name:
                  description: Extensions for name
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                _use:
                  description: Extensions for use
                  type: string
                documentation:
                  description: A brief discussion of what the parameter is for
and how it is used by the module
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                max:
                  description: The maximum number of times this element is
permitted to appear in the request or response
                  type: string
                min:
                  description: The minimum number of times this parameter SHALL
appear in the request or response
                  type: string
                name:
                  description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                  type: string
                profile:
                  description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                  type: string
                type:
                  description: The type of the parameter
                  type: string
                use:
                  description: Whether the parameter is input or output for the
module
                  type: string
              type: object
          valuePeriod:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _end:
                description: Extensions for end
                type: string
              _start:
                description: Extensions for start
                type: string
              end:
                description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              start:
                description: The start of the period. The boundary is
```

```yaml
inclusive
                    type: string
                type: object
              valuePositiveInt:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[1-9][0-9]*$
                type: number
              valueQuantity:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                    type: string
                type: object
              valueRange:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  high:
                    description: The high limit. The boundary is inclusive
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
```

```yaml
internal references). This may be any string value that does not contain spaces
                        type: string
                      low:
                        description: The low limit. The boundary is inclusive
                        type: string
                  type: object
                valueRatio:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    denominator:
                      description: The value of the denominator
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    numerator:
                      description: The value of the numerator
                      type: string
                  type: object
                valueRatioRange:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    denominator:
                      description: The value of the denominator
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    highNumerator:
                      description: The value of the high limit numerator
                      type: string
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    lowNumerator:
                      description: The value of the low limit numerator
                      type: string
                  type: object
                valueReference:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _display:
                      description: Extensions for display
                      type: string
                    _reference:
                      description: Extensions for reference
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    display:
                      description: Plain text narrative that identifies the resource
in addition to the resource reference
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
```

```yaml
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              identifier:
                description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                type: string
              reference:
                description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                type: string
              type:
                description: |-
                  The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                  The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                type: string
          type: object
        valueRelatedArtifact:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _citation:
              description: Extensions for citation
              type: string
            _display:
              description: Extensions for display
              type: string
            _label:
              description: Extensions for label
              type: string
            _type:
              description: Extensions for type
              type: string
            _url:
              description: Extensions for url
              type: string
            citation:
              description: >-
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
              type: string
            display:
              description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
              type: string
            document:
              description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            label:
              description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
              type: string
            resource:
```

```yaml
                      description: 'The related resource, such as a library, value
set, profile, or other knowledge resource'
                      type: string
                  type:
                    description: The type of relationship to the related
artifact
                    enum:
                      - documentation
                      - justification
                      - citation
                      - predecessor
                      - successor
                      - derived-from
                      - depends-on
                      - composed-of
                  url:
                    description: A url for the artifact that can be followed to
access the actual content
                    type: string
                type: object
            valueSampledData:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _data:
                  description: Extensions for data
                  type: string
                _dimensions:
                  description: Extensions for dimensions
                  type: string
                _factor:
                  description: Extensions for factor
                  type: string
                _lowerLimit:
                  description: Extensions for lowerLimit
                  type: string
                _period:
                  description: Extensions for period
                  type: string
                _upperLimit:
                  description: Extensions for upperLimit
                  type: string
                data:
                  description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                  type: string
                dimensions:
                  description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                factor:
                  description:
A correction factor that is applied to the sampled data points before they are
added to the origin
                  type: string
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                lowerLimit:
                  description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                  type: string
                origin:
                  description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                  type: string
                period:
                  description: 'The length of time between sampling times,
measured in milliseconds'
                  type: string
```

```yaml
                    upperLimit:
                      description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                        type: string
                  required:
                    - origin
                  type: object
                valueSignature:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _data:
                      description: Extensions for data
                      type: string
                    _sigFormat:
                      description: Extensions for sigFormat
                      type: string
                    _targetFormat:
                      description: Extensions for targetFormat
                      type: string
                    _when:
                      description: Extensions for when
                      type: string
                    data:
                      description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    onBehalfOf:
                      description: A reference to an application-usable description
of the identity that is represented by the signature
                      type: string
                    sigFormat:
                      description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                      type: string
                    targetFormat:
                      description:
A mime type that indicates the technical format of the target resources signed by
the signature
                      type: string
                    type:
                      description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                      items:
                      type: array
                    when:
                      description: When the digital signature was signed
                      type: string
                    who:
                      description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                      type: string
                  required:
                    - type
                    - who
                  type: object
                valueString:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                valueTime:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
```

```yaml
                  type: string
              valueTiming:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
          set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _event:
                    description: Extensions for event
                    items:
                    type: array
                  code:
                    description: 'A code for the timing schedule (or just text in
          code.text). Some codes such as BID are ubiquitous, but many institutions define
          their own additional codes. If a code is provided, the code is understood to be a
          complete statement of whatever is specified in the structured timing data, and
          either the code or the data may be used to interpret the Timing, with the
          exception that .repeat.bounds still applies over the code (and is not contained in
          the code)'
                    type: string
                  event:
                    description: Identifies specific times when the event
          occurs
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                    type: string
                  modifierExtension:
                    description: |-
                      May be used to represent additional information that is not
          part of the basic definition of the element and that modifies the understanding of
          the element in which it is contained and/or the understanding of the containing
          element's descendants. Usually modifier elements provide negation or qualification.
          To make the use of extensions safe and manageable, there is a strict set of
          governance applied to the definition and use of extensions. Though any implementer
          can define an extension, there is a set of requirements that SHALL be met as part
          of the definition of the extension. Applications processing a resource are required
          to check for modifier extensions.

                      Modifier extensions SHALL NOT change the meaning of any
          elements on Resource or DomainResource (including cannot change the meaning of
          modifierExtension itself)
                    items:
                    type: array
                  repeat:
                    description: A set of rules that describe when the event is
          scheduled
                    type: string
                type: object
              valueTriggerDefinition:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
          set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _name:
                    description: Extensions for name
                    type: string
                  _timingDate:
                    description: Extensions for timingDate
                    type: string
                  _timingDateTime:
                    description: Extensions for timingDateTime
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  condition:
                    description: A boolean-valued expression that is evaluated in
          the context of the container of the trigger definition and returns whether or not
          the trigger fires
                    type: string
                  data:
                    description: 'The triggering data of the event (if this is a
          data trigger). If more than one data is requirement is specified, then all the
          data requirements must be true'
                    items:
                    type: array
```

```yaml
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        name:
                          description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
                          type: string
                        timingDate:
                          description: The timing of the event (if this is a periodic
trigger)
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                          type: string
                        timingDateTime:
                          description: The timing of the event (if this is a periodic
trigger)
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                          type: string
                        timingReference:
                          description: The timing of the event (if this is a periodic
trigger)
                          type: string
                        timingTiming:
                          description: The timing of the event (if this is a periodic
trigger)
                          type: string
                        type:
                          description: The type of triggering event
                          enum:
                            - named-event
                            - periodic
                            - data-changed
                            - data-added
                            - data-modified
                            - data-removed
                            - data-accessed
                            - data-access-ended
                      type: object
                  valueUnsignedInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[0]|([1-9][0-9]*)$
                    type: number
                  valueUri:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUrl:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUsageContext:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      code:
                        description: A code that identifies the type of context being
specified by this usage context
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
```

```yaml
                      internal references). This may be any string value that does not contain spaces
                              type: string
                          valueCodeableConcept:
                              description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                              type: string
                          valueQuantity:
                              description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                              type: string
                          valueRange:
                              description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                              type: string
                          valueReference:
                              description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                              type: string
                        required:
                          - code
                        type: object
                    valueUuid:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                        type: string
                  type: object
              type: array
          id:
              description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
          x-ngsi:
            type: Property
    _language:
      additionalProperties: false
      description: Extensions for language
      properties:
        extension:
          description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            additionalProperties: false
            properties:
              _url:
                additionalProperties: false
                description: Extensions for url
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueBase64Binary:
                additionalProperties: false
                description: Extensions for valueBase64Binary
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
```

```yaml
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                  _valueBoolean:
                    additionalProperties: false
                    description: Extensions for valueBoolean
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueCanonical:
                    additionalProperties: false
                    description: Extensions for valueCanonical
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueCode:
                    additionalProperties: false
                    description: Extensions for valueCode
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueDate:
                    additionalProperties: false
                    description: Extensions for valueDate
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueDateTime:
                    additionalProperties: false
                    description: Extensions for valueDateTime
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueDecimal:
                      additionalProperties: false
                      description: Extensions for valueDecimal
                      properties:
                        extension:
                          description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueId:
                      additionalProperties: false
                      description: Extensions for valueId
                      properties:
                        extension:
                          description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueInstant:
                      additionalProperties: false
                      description: Extensions for valueInstant
                      properties:
                        extension:
                          description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueInteger:
                      additionalProperties: false
                      description: Extensions for valueInteger
                      properties:
                        extension:
                          description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueMarkdown:
                      additionalProperties: false
                      description: Extensions for valueMarkdown
                      properties:
                        extension:
```

```yaml
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueOid:
                  additionalProperties: false
                  description: Extensions for valueOid
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valuePositiveInt:
                  additionalProperties: false
                  description: Extensions for valuePositiveInt
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueString:
                  additionalProperties: false
                  description: Extensions for valueString
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueTime:
                  additionalProperties: false
                  description: Extensions for valueTime
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueUnsignedInt:
```

```
                    additionalProperties: false
                    description: Extensions for valueUnsignedInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueUri:
                    additionalProperties: false
                    description: Extensions for valueUri
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueUrl:
                    additionalProperties: false
                    description: Extensions for valueUrl
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueUuid:
                    additionalProperties: false
                    description: Extensions for valueUuid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
```

```yaml
              url:
                description: Source of the definition for the extension code - a
logical name or a URL
                pattern: ^\S*$
                type: string
            valueAddress:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _city:
                    description: Extensions for city
                    type: string
                  _country:
                    description: Extensions for country
                    type: string
                  _district:
                    description: Extensions for district
                    type: string
                  _line:
                    description: Extensions for line
                    items:
                    type: array
                  _postalCode:
                    description: Extensions for postalCode
                    type: string
                  _state:
                    description: Extensions for state
                    type: string
                  _text:
                    description: Extensions for text
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  _use:
                    description: Extensions for use
                    type: string
                  city:
                    description: 'The name of the city, town, suburb, village or
other community or delivery center'
                    type: string
                  country:
                    description: Country - a nation as commonly understood or
generally accepted
                    type: string
                  district:
                    description: The name of the administrative area (county)
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  line:
                    description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                    items:
                    type: array
                  period:
                    description: Time period when address was/is in use
                    type: string
                  postalCode:
                    description: A postal code designating a region defined by the
postal service
                    type: string
                  state:
                    description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                    type: string
                  text:
                    description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                    type: string
                  type:
```

```yaml
                      description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                      enum:
                        - postal
                        - physical
                        - both
                    use:
                      description: The purpose of this address
                      enum:
                        - home
                        - work
                        - temp
                        - old
                        - billing
                  type: object
            valueAge:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
The identification of the system that provides the coded form of the unit
                  type: string
                unit:
                  description: A human-readable form of the unit
                  type: string
                value:
                  description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                  type: string
              type: object
            valueAnnotation:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _authorString:
                  description: Extensions for authorString
                  type: string
                _text:
                  description: Extensions for text
                  type: string
```

```yaml
              _time:
                description: Extensions for time
                type: string
              authorReference:
                description: The individual responsible for making the
annotation
                type: string
              authorString:
                description: The individual responsible for making the
annotation
                pattern: '^[ \r\n\t\S]+$'
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              text:
                description: The text of the annotation in markdown format
                type: string
              time:
                description: Indicates when this particular annotation was
made
                type: string
            type: object
          valueAttachment:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _contentType:
                description: Extensions for contentType
                type: string
              _creation:
                description: Extensions for creation
                type: string
              _data:
                description: Extensions for data
                type: string
              _hash:
                description: Extensions for hash
                type: string
              _language:
                description: Extensions for language
                type: string
              _size:
                description: Extensions for size
                type: string
              _title:
                description: Extensions for title
                type: string
              _url:
                description: Extensions for url
                type: string
              contentType:
                description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                type: string
              creation:
                description: The date that the attachment was first created
                type: string
              data:
                description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
              hash:
                description: The calculated hash of the data using SHA-1.
Represented using base64
```

```yaml
                            type: string
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          language:
                            description: The human language of the content. The value can
be any valid value according to BCP 47
                            type: string
                          size:
                            description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                            type: string
                          title:
                            description: A label or set of text to display in place of the
data
                            type: string
                          url:
                            description: A location where the data can be accessed
                            type: string
                        type: object
                      valueBase64Binary:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                        type: string
                      valueBoolean:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^true|false$
                        type: boolean
                      valueCanonical:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^\S*$
                        type: string
                      valueCode:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[^\s]+(\s[^\s]+)*$
                        type: string
                      valueCodeableConcept:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          _text:
                            description: Extensions for text
                            type: string
                          coding:
                            description: A reference to a code defined by a terminology
system
                            items:
                            type: array
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          text:
                            description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                            type: string
                        type: object
                      valueCodeableReference:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          concept:
                            description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

```
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                              reference:
                                description: A reference to a resource the provides exact
                    details about the information being referenced
                                type: string
                          type: object
                        valueCoding:
                          additionalProperties: false
                          description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                          properties:
                            _code:
                              description: Extensions for code
                              type: string
                            _display:
                              description: Extensions for display
                              type: string
                            _system:
                              description: Extensions for system
                              type: string
                            _userSelected:
                              description: Extensions for userSelected
                              type: string
                            _version:
                              description: Extensions for version
                              type: string
                            code:
                              description: A symbol in syntax defined by the system. The
                    symbol may be a predefined code or an expression in a syntax defined by the coding
                    system (e.g. post-coordination)
                              type: string
                            display:
                              description: 'A representation of the meaning of the code in
                    the system, following the rules of the system'
                              type: string
                            extension:
                              description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                            system:
                              description:
                    The identification of the code system that defines the meaning of the symbol in the
                    code
                              type: string
                            userSelected:
                              description: Indicates that this coding was chosen by a user
                    directly - e.g. off a pick list of available items (codes or displays)
                              type: string
                            version:
                              description: 'The version of the code system which was used
                    when choosing this code. Note that a well-maintained code system does not need the
                    version reported, because the meaning of codes is consistent across versions.
                    However this cannot consistently be assured, and when the meaning is not
                    guaranteed to be consistent, the version SHOULD be exchanged'
                              type: string
                          type: object
                        valueContactDetail:
                          additionalProperties: false
                          description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                          properties:
                            _name:
                              description: Extensions for name
                              type: string
                            extension:
                              description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
```

```yaml
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        name:
                          description: The name of an individual to contact
                          type: string
                        telecom:
                          description: The contact details for the individual (if a name
was provided) or the organization
                          items:
                            type: array
                      type: object
                  valueContactPoint:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _rank:
                        description: Extensions for rank
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      period:
                        description: Time period when the contact point was/is in
use
                        type: string
                      rank:
                        description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                        type: string
                      system:
                        description: Telecommunications form for contact point - what
communications system is required to make use of the contact
                        enum:
                          - phone
                          - fax
                          - email
                          - pager
                          - url
                          - sms
                          - other
                      use:
                        description: Identifies the purpose for the contact point
                        enum:
                          - home
                          - work
                          - temp
                          - old
                          - mobile
                      value:
                        description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                        type: string
                    type: object
                  valueContributor:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      contact:
                        description: Contact details to assist a user in finding and
communicating with the contributor
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      name:
                        description: The name of the individual or organization
responsible for the contribution
                        type: string
                      type:
                        description: The type of contributor
                        enum:
                          - author
                          - editor
                          - reviewer
                          - endorser
                  type: object
                valueCount:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
```

```
                    The identification of the system that provides the coded form of the unit
                                    type: string
                            unit:
                                description: A human-readable form of the unit
                                type: string
                            value:
                                description: The value of the measured amount. The value
                    includes an implicit precision in the presentation of the value
                                type: string
                        type: object
                    valueDataRequirement:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                            _limit:
                                description: Extensions for limit
                                type: string
                            _mustSupport:
                                description: Extensions for mustSupport
                                items:
                                type: array
                            _type:
                                description: Extensions for type
                                type: string
                            codeFilter:
                                description: 'Code filters specify additional constraints on
                    the data, specifying the value set of interest for a particular element of the
                    data. Each code filter defines an additional constraint on the data, i.e. code
                    filters are AND''ed, not OR''ed'
                                items:
                                type: array
                            dateFilter:
                                description: 'Date filters specify additional constraints on
                    the data in terms of the applicable date range for specific elements. Each date
                    filter specifies an additional constraint on the data, i.e. date filters are
                    AND''ed, not OR''ed'
                                items:
                                type: array
                            extension:
                                description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                                items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                            limit:
                                description: Specifies a maximum number of results that are
                    required (uses the _count search parameter)
                                type: string
                            mustSupport:
                                description: "Indicates that specific elements of the type are
                    referenced by the knowledge module and must be supported by the consumer in order
                    to obtain an effective evaluation. This does not mean that a value is required for
                    this element, only that the consuming system must understand the element and be
                    able to provide values for it if they are available. \n\nThe value of mustSupport
                    SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
                    consist only of identifiers, constant indexers, and .resolve() (see the [Simple
                    FHIRPath Profile](fhirpath.html#simple) for full details)"
                                items:
                                type: array
                            profile:
                                description: 'The profile of the required data, specified as
                    the uri of the profile definition'
                                items:
                                type: array
                            sort:
                                description: Specifies the order of the results to be
                    returned
                                items:
                                type: array
                            subjectCodeableConcept:
                                description: 'The intended subjects of the data requirement.
                    If this element is not provided, a Patient subject is assumed'
                                type: string
                            subjectReference:
                                description: 'The intended subjects of the data requirement.
                    If this element is not provided, a Patient subject is assumed'
                                type: string
                            type:
```

```yaml
                      description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                      type: string
                    type: object
                  valueDate:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                  valueDateTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  valueDecimal:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  valueDistance:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  valueDosage:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
                properties:
                  _asNeededBoolean:
                    description: Extensions for asNeededBoolean
                    type: string
                  _patientInstruction:
                    description: Extensions for patientInstruction
                    type: string
                  _sequence:
                    description: Extensions for sequence
                    type: string
                  _text:
                    description: Extensions for text
                    type: string
                  additionalInstruction:
                    description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                    items:
                    type: array
                  asNeededBoolean:
                    description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                    pattern: ^true|false$
                    type: boolean
                  asNeededCodeableConcept:
                    description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                    type: string
                  doseAndRate:
                    description: The amount of medication administered
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  maxDosePerAdministration:
                    description: Upper limit on medication per administration
                    type: string
                  maxDosePerLifetime:
                    description: Upper limit on medication per lifetime of the
patient
                    type: string
                  maxDosePerPeriod:
                    description: Upper limit on medication per unit of time
                    type: string
                  method:
                    description: Technique for administering medication
                    type: string
                  modifierExtension:
                    description: |-
                      May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                      Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                    items:
                    type: array
                  patientInstruction:
                    description: Instructions in terms that are understood by the
patient or consumer
                    type: string
                  route:
                    description: How drug should enter body
                    type: string
                  sequence:
```

```yaml
                  description: Indicates the order in which the dosage
instructions should be applied or interpreted
                  type: string
                site:
                  description: Body site to administer to
                  type: string
                text:
                  description: Free text dosage instructions e.g. SIG
                  type: string
                timing:
                  description: When medication should be administered
                  type: string
              type: object
            valueDuration:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
The identification of the system that provides the coded form of the unit
                  type: string
                unit:
                  description: A human-readable form of the unit
                  type: string
                value:
                  description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                  type: string
              type: object
            valueExpression:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _description:
                  description: Extensions for description
                  type: string
                _expression:
                  description: Extensions for expression
                  type: string
                _language:
                  description: Extensions for language
                  type: string
```

```yaml
            _name:
              description: Extensions for name
              type: string
            _reference:
              description: Extensions for reference
              type: string
            description:
              description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
              type: string
            expression:
              description: An expression in the specified language that
returns a value
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            language:
              description: The media type of the language for the
expression
              enum:
                - text/cql
                - text/fhirpath
                - application/x-fhir-query
                - text/cql-identifier
                - text/cql-expression
            name:
              description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
              type: string
            reference:
              description: A URI that defines where the expression is
found
              type: string
          type: object
        valueHumanName:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _family:
              description: Extensions for family
              type: string
            _given:
              description: Extensions for given
              items:
              type: array
            _prefix:
              description: Extensions for prefix
              items:
              type: array
            _suffix:
              description: Extensions for suffix
              items:
              type: array
            _text:
              description: Extensions for text
              type: string
            _use:
              description: Extensions for use
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
              type: array
            family:
              description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
              type: string
            given:
```

```yaml
                          description: Given name
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        period:
                          description: Indicates the period of time when this name was
valid for the named person
                          type: string
                        prefix:
                          description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                          items:
                            type: array
                        suffix:
                          description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                          items:
                            type: array
                        text:
                          description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                          type: string
                        use:
                          description: Identifies the purpose for this name
                          enum:
                            - usual
                            - official
                            - temp
                            - nickname
                            - anonymous
                            - old
                            - maiden
                      type: object
                  valueId:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[A-Za-z0-9\-\.]{1,64}$
                    type: string
                  valueIdentifier:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _system:
                        description: Extensions for system
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      assigner:
                        description: Organization that issued/manages the
identifier
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      period:
                        description: Time period during which identifier is/was valid
for use
                        type: string
                      system:
                        description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                        type: string
                      type:
                        description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
```

```yaml
                type: string
            use:
              description: The purpose of this identifier
              enum:
                - usual
                - official
                - temp
                - secondary
                - old
            value:
              description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
              type: string
          type: object
        valueInstant:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
          type: string
        valueInteger:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^-?([0]|([1-9][0-9]*))$
          type: number
        valueMarkdown:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: '^[ \r\n\t\S]+$'
          type: string
        valueMoney:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _currency:
              description: Extensions for currency
              type: string
            _value:
              description: Extensions for value
              type: string
            currency:
              description: ISO 4217 Currency Code
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            value:
              description: Numerical value (with implicit precision)
              type: string
          type: object
        valueOid:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
          type: string
        valueParameterDefinition:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _documentation:
              description: Extensions for documentation
              type: string
            _max:
              description: Extensions for max
              type: string
            _min:
              description: Extensions for min
              type: string
            _name:
              description: Extensions for name
              type: string
            _type:
              description: Extensions for type
```

```yaml
                    type: string
                  _use:
                    description: Extensions for use
                    type: string
                  documentation:
                    description: A brief discussion of what the parameter is for
and how it is used by the module
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  max:
                    description: The maximum number of times this element is
permitted to appear in the request or response
                    type: string
                  min:
                    description: The minimum number of times this parameter SHALL
appear in the request or response
                    type: string
                  name:
                    description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                    type: string
                  profile:
                    description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                    type: string
                  type:
                    description: The type of the parameter
                    type: string
                  use:
                    description: Whether the parameter is input or output for the
module
                    type: string
                type: object
              valuePeriod:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _end:
                    description: Extensions for end
                    type: string
                  _start:
                    description: Extensions for start
                    type: string
                  end:
                    description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  start:
                    description: The start of the period. The boundary is
inclusive
                    type: string
                type: object
              valuePositiveInt:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[1-9][0-9]*$
                type: number
              valueQuantity:
```

```yaml
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
The identification of the system that provides the coded form of the unit
                  type: string
                unit:
                  description: A human-readable form of the unit
                  type: string
                value:
                  description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                  type: string
              type: object
            valueRange:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                high:
                  description: The high limit. The boundary is inclusive
                  type: string
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                low:
                  description: The low limit. The boundary is inclusive
                  type: string
              type: object
            valueRatio:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
```

```yaml
                set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    denominator:
                      description: The value of the denominator
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    numerator:
                      description: The value of the numerator
                      type: string
                  type: object
                valueRatioRange:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    denominator:
                      description: The value of the denominator
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    highNumerator:
                      description: The value of the high limit numerator
                      type: string
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    lowNumerator:
                      description: The value of the low limit numerator
                      type: string
                  type: object
                valueReference:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _display:
                      description: Extensions for display
                      type: string
                    _reference:
                      description: Extensions for reference
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    display:
                      description: Plain text narrative that identifies the resource
in addition to the resource reference
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    identifier:
                      description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
```

actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                          type: string
                        reference:
                          description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                          type: string
                        type:
                          description: |-
                            **The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.**
                            **The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)**
                          type: string
                      type: object
                    valueRelatedArtifact:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _citation:
                          description: Extensions for citation
                          type: string
                        _display:
                          description: Extensions for display
                          type: string
                        _label:
                          description: Extensions for label
                          type: string
                        _type:
                          description: Extensions for type
                          type: string
                        _url:
                          description: Extensions for url
                          type: string
                        citation:
                          description: >-
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
                          type: string
                        display:
                          description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
                          type: string
                        document:
                          description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        label:
                          description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
                          type: string
                        resource:
                          description: 'The related resource, such as a library, value
set, profile, or other knowledge resource'
                          type: string
                        type:
                          description: The type of relationship to the related
artifact
                          enum:
                            - documentation
                            - justification

```yaml
                        - citation
                        - predecessor
                        - successor
                        - derived-from
                        - depends-on
                        - composed-of
                  url:
                    description: A url for the artifact that can be followed to
access the actual content
                    type: string
                type: object
              valueSampledData:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _data:
                    description: Extensions for data
                    type: string
                  _dimensions:
                    description: Extensions for dimensions
                    type: string
                  _factor:
                    description: Extensions for factor
                    type: string
                  _lowerLimit:
                    description: Extensions for lowerLimit
                    type: string
                  _period:
                    description: Extensions for period
                    type: string
                  _upperLimit:
                    description: Extensions for upperLimit
                    type: string
                  data:
                    description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                    type: string
                  dimensions:
                    description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  factor:
                    description:
A correction factor that is applied to the sampled data points before they are
added to the origin
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  lowerLimit:
                    description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                    type: string
                  origin:
                    description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                    type: string
                  period:
                    description: 'The length of time between sampling times,
measured in milliseconds'
                    type: string
                  upperLimit:
                    description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                    type: string
                required:
                  - origin
                type: object
              valueSignature:
```

```yaml
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _data:
                          description: Extensions for data
                          type: string
                        _sigFormat:
                          description: Extensions for sigFormat
                          type: string
                        _targetFormat:
                          description: Extensions for targetFormat
                          type: string
                        _when:
                          description: Extensions for when
                          type: string
                        data:
                          description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        onBehalfOf:
                          description: A reference to an application-usable description
of the identity that is represented by the signature
                          type: string
                        sigFormat:
                          description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                          type: string
                        targetFormat:
                          description:
A mime type that indicates the technical format of the target resources signed by
the signature
                          type: string
                        type:
                          description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                          items:
                          type: array
                        when:
                          description: When the digital signature was signed
                          type: string
                        who:
                          description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                          type: string
                      required:
                        - type
                        - who
                      type: object
                    valueString:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueTime:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
                      type: string
                    valueTiming:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _event:
                          description: Extensions for event
                          items:
```

```yaml
              type: array
            code:
              description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
              type: string
            event:
              description: Identifies specific times when the event
occurs
              items:
                type: array
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            modifierExtension:
              description: |-
                May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
              items:
                type: array
            repeat:
              description: A set of rules that describe when the event is
scheduled
              type: string
          type: object
        valueTriggerDefinition:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _name:
              description: Extensions for name
              type: string
            _timingDate:
              description: Extensions for timingDate
              type: string
            _timingDateTime:
              description: Extensions for timingDateTime
              type: string
            _type:
              description: Extensions for type
              type: string
            condition:
              description: A boolean-valued expression that is evaluated in
the context of the container of the trigger definition and returns whether or not
the trigger fires
              type: string
            data:
              description: 'The triggering data of the event (if this is a
data trigger). If more than one data is requirement is specified, then all the
data requirements must be true'
              items:
                type: array
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: array
```

```yaml
                    id:
                      description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                      type: string
                    name:
                      description: 'A formal name for the event. This may be an
        absolute URI that identifies the event formally (e.g. from a trigger registry), or
        a simple relative URI that identifies the event in a local context'
                      type: string
                    timingDate:
                      description: The timing of the event (if this is a periodic
        trigger)
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
        (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                    timingDateTime:
                      description: The timing of the event (if this is a periodic
        trigger)
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
        (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
        [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                      type: string
                    timingReference:
                      description: The timing of the event (if this is a periodic
        trigger)
                      type: string
                    timingTiming:
                      description: The timing of the event (if this is a periodic
        trigger)
                      type: string
                    type:
                      description: The type of triggering event
                      enum:
                        - named-event
                        - periodic
                        - data-changed
                        - data-added
                        - data-modified
                        - data-removed
                        - data-accessed
                        - data-access-ended
                  type: object
                valueUnsignedInt:
                  description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[0]|([1-9][0-9]*)$
                  type: number
                valueUri:
                  description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUrl:
                  description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUsageContext:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    code:
                      description: A code that identifies the type of context being
        specified by this usage context
                      type: string
                    extension:
                      description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                      type: string
                    valueCodeableConcept:
                      description:
        A value that defines the context specified in this context of use. The
        interpretation of the value is defined by the code
                      type: string
                    valueQuantity:
                      description:
```

```yaml
                    A value that defines the context specified in this context of use. The
                    interpretation of the value is defined by the code
                          type: string
                        valueRange:
                          description:
                    A value that defines the context specified in this context of use. The
                    interpretation of the value is defined by the code
                          type: string
                        valueReference:
                          description:
                    A value that defines the context specified in this context of use. The
                    interpretation of the value is defined by the code
                          type: string
                      required:
                        - code
                      type: object
                    valueUuid:
                      description: 'Value of extension - must be one of a constrained
            set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-
            [0-9a-f]{12}$
                      type: string
                  type: object
                type: array
              id:
                description: Unique id for the element within a resource (for internal
            references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
            x-ngsi:
              type: Property
        _name:
          additionalProperties: false
          description: Extensions for name
          properties:
            extension:
              description: 'May be used to represent additional information that is
        not part of the basic definition of the element. To make the use of extensions
        safe and manageable, there is a strict set of governance  applied to the
        definition and use of extensions. Though any implementer can define an extension,
        there is a set of requirements that SHALL be met as part of the definition of the
        extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    additionalProperties: false
                    description: Extensions for url
                    properties:
                      extension:
                        description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance  applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueBase64Binary:
                    additionalProperties: false
                    description: Extensions for valueBase64Binary
                    properties:
                      extension:
                        description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance  applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueBoolean:
                    additionalProperties: false
                    description: Extensions for valueBoolean
                    properties:
```

```yaml
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                    type: object
                  _valueCanonical:
                    additionalProperties: false
                    description: Extensions for valueCanonical
                    properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                    type: object
                  _valueCode:
                    additionalProperties: false
                    description: Extensions for valueCode
                    properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                    type: object
                  _valueDate:
                    additionalProperties: false
                    description: Extensions for valueDate
                    properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                    type: object
                  _valueDateTime:
                    additionalProperties: false
                    description: Extensions for valueDateTime
                    properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                    type: object
```

```yaml
          _valueDecimal:
            additionalProperties: false
            description: Extensions for valueDecimal
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _valueId:
            additionalProperties: false
            description: Extensions for valueId
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _valueInstant:
            additionalProperties: false
            description: Extensions for valueInstant
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _valueInteger:
            additionalProperties: false
            description: Extensions for valueInteger
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _valueMarkdown:
            additionalProperties: false
            description: Extensions for valueMarkdown
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
```

```yaml
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                        type: object
                    _valueOid:
                      additionalProperties: false
                      description: Extensions for valueOid
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                    _valuePositiveInt:
                      additionalProperties: false
                      description: Extensions for valuePositiveInt
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                    _valueString:
                      additionalProperties: false
                      description: Extensions for valueString
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                    _valueTime:
                      additionalProperties: false
                      description: Extensions for valueTime
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                    _valueUnsignedInt:
                      additionalProperties: false
                      description: Extensions for valueUnsignedInt
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
              definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueUri:
                  additionalProperties: false
                  description: Extensions for valueUri
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueUrl:
                  additionalProperties: false
                  description: Extensions for valueUrl
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueUuid:
                  additionalProperties: false
                  description: Extensions for valueUuid
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                url:
                  description: Source of the definition for the extension code - a
logical name or a URL
                  pattern: ^\S*$
                  type: string
                valueAddress:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
properties:
  _city:
    description: Extensions for city
    type: string
  _country:
    description: Extensions for country
    type: string
  _district:
    description: Extensions for district
    type: string
  _line:
    description: Extensions for line
    items:
    type: array
  _postalCode:
    description: Extensions for postalCode
    type: string
  _state:
    description: Extensions for state
    type: string
  _text:
    description: Extensions for text
    type: string
  _type:
    description: Extensions for type
    type: string
  _use:
    description: Extensions for use
    type: string
  city:
    description: 'The name of the city, town, suburb, village or
other community or delivery center'
    type: string
  country:
    description: Country - a nation as commonly understood or
generally accepted
    type: string
  district:
    description: The name of the administrative area (county)
    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  line:
    description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
    items:
    type: array
  period:
    description: Time period when address was/is in use
    type: string
  postalCode:
    description: A postal code designating a region defined by the
postal service
    type: string
  state:
    description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
    type: string
  text:
    description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
    type: string
  type:
    description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
    enum:
      - postal
      - physical
      - both
  use:
    description: The purpose of this address
```

```yaml
                    enum:
                      - home
                      - work
                      - temp
                      - old
                      - billing
                  type: object
                valueAge:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                valueAnnotation:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _authorString:
                      description: Extensions for authorString
                      type: string
                    _text:
                      description: Extensions for text
                      type: string
                    _time:
                      description: Extensions for time
                      type: string
                    authorReference:
                      description: The individual responsible for making the
annotation
                      type: string
                    authorString:
                      description: The individual responsible for making the
```

```yaml
      annotation
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      text:
                        description: The text of the annotation in markdown format
                        type: string
                      time:
                        description: Indicates when this particular annotation was
made
                        type: string
                    type: object
                  valueAttachment:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _contentType:
                        description: Extensions for contentType
                        type: string
                      _creation:
                        description: Extensions for creation
                        type: string
                      _data:
                        description: Extensions for data
                        type: string
                      _hash:
                        description: Extensions for hash
                        type: string
                      _language:
                        description: Extensions for language
                        type: string
                      _size:
                        description: Extensions for size
                        type: string
                      _title:
                        description: Extensions for title
                        type: string
                      _url:
                        description: Extensions for url
                        type: string
                      contentType:
                        description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                        type: string
                      creation:
                        description: The date that the attachment was first created
                        type: string
                      data:
                        description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                      hash:
                        description: The calculated hash of the data using SHA-1.
Represented using base64
                        type: string
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      language:
                        description: The human language of the content. The value can
be any valid value according to BCP 47
                        type: string
```

```yaml
                        size:
                          description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                          type: string
                        title:
                          description: A label or set of text to display in place of the
data
                          type: string
                        url:
                          description: A location where the data can be accessed
                          type: string
                      type: object
                  valueBase64Binary:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                    type: string
                  valueBoolean:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^true|false$
                    type: boolean
                  valueCanonical:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueCode:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  valueCodeableConcept:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
system
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                  valueCodeableReference:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      concept:
                        description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

```yaml
                          type: string
                        reference:
                          description: A reference to a resource the provides exact
details about the information being referenced
                          type: string
                      type: object
                  valueCoding:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _display:
                        description: Extensions for display
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _userSelected:
                        description: Extensions for userSelected
                        type: string
                      _version:
                        description: Extensions for version
                        type: string
                      code:
                        description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                        type: string
                      display:
                        description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the code system that defines the meaning of the symbol in the
code
                        type: string
                      userSelected:
                        description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                        type: string
                      version:
                        description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                        type: string
                    type: object
                  valueContactDetail:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
```

```yaml
                    name:
                      description: The name of an individual to contact
                      type: string
                    telecom:
                      description: The contact details for the individual (if a name
was provided) or the organization
                      items:
                      type: array
                  type: object
                valueContactPoint:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _rank:
                      description: Extensions for rank
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Time period when the contact point was/is in
use
                      type: string
                    rank:
                      description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                      type: string
                    system:
                      description: Telecommunications form for contact point - what
communications system is required to make use of the contact
                      enum:
                        - phone
                        - fax
                        - email
                        - pager
                        - url
                        - sms
                        - other
                    use:
                      description: Identifies the purpose for the contact point
                      enum:
                        - home
                        - work
                        - temp
                        - old
                        - mobile
                    value:
                      description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                      type: string
                  type: object
                valueContributor:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _name:
                      description: Extensions for name
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    contact:
                      description: Contact details to assist a user in finding and
```

```yaml
                  communicating with the contributor
                        items:
                          type: array
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        name:
                          description: The name of the individual or organization
responsible for the contribution
                          type: string
                        type:
                          description: The type of contributor
                          enum:
                            - author
                            - editor
                            - reviewer
                            - endorser
                    type: object
                valueCount:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
```

```yaml
              type: object
          valueDataRequirement:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _limit:
                description: Extensions for limit
                type: string
              _mustSupport:
                description: Extensions for mustSupport
                items:
                type: array
              _type:
                description: Extensions for type
                type: string
              codeFilter:
                description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                items:
                type: array
              dateFilter:
                description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                items:
                type: array
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              limit:
                description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                type: string
              mustSupport:
                description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
                items:
                type: array
              profile:
                description: 'The profile of the required data, specified as
the uri of the profile definition'
                items:
                type: array
              sort:
                description: Specifies the order of the results to be
returned
                items:
                type: array
              subjectCodeableConcept:
                description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                type: string
              subjectReference:
                description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                type: string
              type:
                description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                type: string
            type: object
          valueDate:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
```

```yaml
                (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                type: string
            valueDateTime:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                type: string
            valueDecimal:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                type: number
            valueDistance:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                    type: string
                type: object
            valueDosage:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _asNeededBoolean:
                    description: Extensions for asNeededBoolean
                    type: string
                  _patientInstruction:
                    description: Extensions for patientInstruction
                    type: string
                  _sequence:
                    description: Extensions for sequence
```

```yaml
                    type: string
                  _text:
                    description: Extensions for text
                    type: string
                  additionalInstruction:
                    description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                    items:
                    type: array
                  asNeededBoolean:
                    description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                    pattern: ^true|false$
                    type: boolean
                  asNeededCodeableConcept:
                    description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                    type: string
                  doseAndRate:
                    description: The amount of medication administered
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  maxDosePerAdministration:
                    description: Upper limit on medication per administration
                    type: string
                  maxDosePerLifetime:
                    description: Upper limit on medication per lifetime of the
patient
                    type: string
                  maxDosePerPeriod:
                    description: Upper limit on medication per unit of time
                    type: string
                  method:
                    description: Technique for administering medication
                    type: string
                  modifierExtension:
                    description: |-
                        May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                        Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                    items:
                    type: array
                  patientInstruction:
                    description: Instructions in terms that are understood by the
patient or consumer
                    type: string
                  route:
                    description: How drug should enter body
                    type: string
                  sequence:
                    description: Indicates the order in which the dosage
instructions should be applied or interpreted
                    type: string
                  site:
                    description: Body site to administer to
                    type: string
                  text:
                    description: Free text dosage instructions e.g. SIG
                    type: string
```

```yaml
                timing:
                  description: When medication should be administered
                  type: string
              type: object
            valueDuration:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
The identification of the system that provides the coded form of the unit
                  type: string
                unit:
                  description: A human-readable form of the unit
                  type: string
                value:
                  description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                  type: string
              type: object
            valueExpression:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _description:
                  description: Extensions for description
                  type: string
                _expression:
                  description: Extensions for expression
                  type: string
                _language:
                  description: Extensions for language
                  type: string
                _name:
                  description: Extensions for name
                  type: string
                _reference:
                  description: Extensions for reference
                  type: string
                description:
                  description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
```

```yaml
                            type: string
                        expression:
                            description: An expression in the specified language that
returns a value
                            type: string
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        language:
                            description: The media type of the language for the
expression
                            enum:
                                - text/cql
                                - text/fhirpath
                                - application/x-fhir-query
                                - text/cql-identifier
                                - text/cql-expression
                        name:
                            description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                            type: string
                        reference:
                            description: A URI that defines where the expression is
found
                            type: string
                    type: object
                valueHumanName:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                        _family:
                            description: Extensions for family
                            type: string
                        _given:
                            description: Extensions for given
                            items:
                            type: array
                        _prefix:
                            description: Extensions for prefix
                            items:
                            type: array
                        _suffix:
                            description: Extensions for suffix
                            items:
                            type: array
                        _text:
                            description: Extensions for text
                            type: string
                        _use:
                            description: Extensions for use
                            type: string
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        family:
                            description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
                            type: string
                        given:
                            description: Given name
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        period:
                            description: Indicates the period of time when this name was
```

```yaml
                        valid for the named person
                              type: string
                            prefix:
                              description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                              items:
                              type: array
                            suffix:
                              description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                              items:
                              type: array
                            text:
                              description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                              type: string
                            use:
                              description: Identifies the purpose for this name
                              enum:
                                - usual
                                - official
                                - temp
                                - nickname
                                - anonymous
                                - old
                                - maiden
                          type: object
                      valueId:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[A-Za-z0-9\-\.]{1,64}$
                        type: string
                      valueIdentifier:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          _system:
                            description: Extensions for system
                            type: string
                          _use:
                            description: Extensions for use
                            type: string
                          _value:
                            description: Extensions for value
                            type: string
                          assigner:
                            description: Organization that issued/manages the
identifier
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          period:
                            description: Time period during which identifier is/was valid
for use
                            type: string
                          system:
                            description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                            type: string
                          type:
                            description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                            type: string
                          use:
                            description: The purpose of this identifier
                            enum:
                              - usual
                              - official
                              - temp
                              - secondary
                              - old
```

```yaml
                    value:
                      description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                      type: string
                  type: object
                valueInstant:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                  type: string
                valueInteger:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^-?([0]|([1-9][0-9]*))$
                  type: number
                valueMarkdown:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                valueMoney:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _currency:
                      description: Extensions for currency
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    currency:
                      description: ISO 4217 Currency Code
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    value:
                      description: Numerical value (with implicit precision)
                      type: string
                  type: object
                valueOid:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                  type: string
                valueParameterDefinition:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _documentation:
                      description: Extensions for documentation
                      type: string
                    _max:
                      description: Extensions for max
                      type: string
                    _min:
                      description: Extensions for min
                      type: string
                    _name:
                      description: Extensions for name
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    documentation:
                      description: A brief discussion of what the parameter is for
and how it is used by the module
                      type: string
                    extension:
```

```yaml
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      max:
                        description: The maximum number of times this element is
permitted to appear in the request or response
                        type: string
                      min:
                        description: The minimum number of times this parameter SHALL
appear in the request or response
                        type: string
                      name:
                        description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                        type: string
                      profile:
                        description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                        type: string
                      type:
                        description: The type of the parameter
                        type: string
                      use:
                        description: Whether the parameter is input or output for the
module
                        type: string
                    type: object
                  valuePeriod:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _end:
                        description: Extensions for end
                        type: string
                      _start:
                        description: Extensions for start
                        type: string
                      end:
                        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      start:
                        description: The start of the period. The boundary is
inclusive
                        type: string
                    type: object
                  valuePositiveInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[1-9][0-9]*$
                    type: number
                  valueQuantity:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
```

```yaml
                type: string
              _system:
                description: Extensions for system
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
              code:
                description: A computer processable form of the unit in some
unit representation system
                type: string
              comparator:
                description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                enum:
                  - <
                  - <=
                  - '>='
                  - >
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              system:
                description:
The identification of the system that provides the coded form of the unit
                type: string
              unit:
                description: A human-readable form of the unit
                type: string
              value:
                description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                type: string
            type: object
          valueRange:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              high:
                description: The high limit. The boundary is inclusive
                type: string
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              low:
                description: The low limit. The boundary is inclusive
                type: string
            type: object
          valueRatio:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              denominator:
                description: The value of the denominator
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
```

```
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    numerator:
                      description: The value of the numerator
                      type: string
                  type: object
                valueRatioRange:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    denominator:
                      description: The value of the denominator
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    highNumerator:
                      description: The value of the high limit numerator
                      type: string
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    lowNumerator:
                      description: The value of the low limit numerator
                      type: string
                  type: object
                valueReference:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _display:
                      description: Extensions for display
                      type: string
                    _reference:
                      description: Extensions for reference
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    display:
                      description: Plain text narrative that identifies the resource
in addition to the resource reference
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    identifier:
                      description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                      type: string
                    reference:
                      description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
```

```
                  where the resource is found. The reference may be version specific or not. If the
                  reference is not to a FHIR RESTful server, then it should be assumed to be version
                  specific. Internal fragment references (start with '#') refer to contained
                  resources"
                          type: string
                      type:
                        description: |-
                          The expected type of the target of the reference. If both
                  Reference.type and Reference.reference are populated and Reference.reference is a
                  FHIR URL, both SHALL be consistent.
                          The type is the Canonical URL of Resource Definition that is
                  the type this reference refers to. References are URLs that are relative to http://
                  hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
                  fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
                  (and can only be used in references in logical models, not resources)
                          type: string
                    type: object
                  valueRelatedArtifact:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _citation:
                        description: Extensions for citation
                        type: string
                      _display:
                        description: Extensions for display
                        type: string
                      _label:
                        description: Extensions for label
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _url:
                        description: Extensions for url
                        type: string
                      citation:
                        description:
                  A bibliographic citation for the related artifact. This text SHOULD be formatted
                  according to an accepted citation format
                        type: string
                      display:
                        description: 'A brief description of the document or knowledge
                  resource being referenced, suitable for display to a consumer'
                        type: string
                      document:
                        description: 'The document being referenced, represented as an
                  attachment. This is exclusive with the resource element'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                        type: string
                      label:
                        description: 'A short label that can be used to reference the
                  citation from elsewhere in the containing artifact, such as a footnote index'
                        type: string
                      resource:
                        description: 'The related resource, such as a library, value
                  set, profile, or other knowledge resource'
                        type: string
                      type:
                        description: The type of relationship to the related
                  artifact
                        enum:
                          - documentation
                          - justification
                          - citation
                          - predecessor
                          - successor
                          - derived-from
                          - depends-on
                          - composed-of
                      url:
                        description: A url for the artifact that can be followed to
                  access the actual content
```

```yaml
                    type: string
                type: object
              valueSampledData:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _data:
                    description: Extensions for data
                    type: string
                  _dimensions:
                    description: Extensions for dimensions
                    type: string
                  _factor:
                    description: Extensions for factor
                    type: string
                  _lowerLimit:
                    description: Extensions for lowerLimit
                    type: string
                  _period:
                    description: Extensions for period
                    type: string
                  _upperLimit:
                    description: Extensions for upperLimit
                    type: string
                  data:
                    description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                    type: string
                  dimensions:
                    description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  factor:
                    description:
A correction factor that is applied to the sampled data points before they are
added to the origin
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  lowerLimit:
                    description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                    type: string
                  origin:
                    description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                    type: string
                  period:
                    description: 'The length of time between sampling times,
measured in milliseconds'
                    type: string
                  upperLimit:
                    description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                    type: string
                required:
                  - origin
                type: object
              valueSignature:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _data:
                    description: Extensions for data
                    type: string
                  _sigFormat:
                    description: Extensions for sigFormat
```

```yaml
                          type: string
                    _targetFormat:
                      description: Extensions for targetFormat
                      type: string
                    _when:
                      description: Extensions for when
                      type: string
                    data:
                      description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    onBehalfOf:
                      description: A reference to an application-usable description
of the identity that is represented by the signature
                      type: string
                    sigFormat:
                      description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                      type: string
                    targetFormat:
                      description:
A mime type that indicates the technical format of the target resources signed by
the signature
                      type: string
                    type:
                      description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                      items:
                      type: array
                    when:
                      description: When the digital signature was signed
                      type: string
                    who:
                      description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                      type: string
                  required:
                    - type
                    - who
                  type: object
                valueString:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                valueTime:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
                  type: string
                valueTiming:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _event:
                      description: Extensions for event
                      items:
                      type: array
                    code:
                      description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
```

```
                            type: string
                    event:
                      description: Identifies specific times when the event
occurs
                      items:
                        type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    modifierExtension:
                      description: |-
                        May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                        Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                      items:
                        type: array
                    repeat:
                      description: A set of rules that describe when the event is
scheduled
                      type: string
                  type: object
              valueTriggerDefinition:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _name:
                    description: Extensions for name
                    type: string
                  _timingDate:
                    description: Extensions for timingDate
                    type: string
                  _timingDateTime:
                    description: Extensions for timingDateTime
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  condition:
                    description: A boolean-valued expression that is evaluated in
the context of the container of the trigger definition and returns whether or not
the trigger fires
                    type: string
                  data:
                    description: 'The triggering data of the event (if this is a
data trigger). If more than one data is requirement is specified, then all the
data requirements must be true'
                    items:
                      type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  name:
                    description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
                    type: string
```

```yaml
                    timingDate:
                      description: The timing of the event (if this is a periodic
trigger)
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                    timingDateTime:
                      description: The timing of the event (if this is a periodic
trigger)
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                      type: string
                    timingReference:
                      description: The timing of the event (if this is a periodic
trigger)
                      type: string
                    timingTiming:
                      description: The timing of the event (if this is a periodic
trigger)
                      type: string
                    type:
                      description: The type of triggering event
                      enum:
                        - named-event
                        - periodic
                        - data-changed
                        - data-added
                        - data-modified
                        - data-removed
                        - data-accessed
                        - data-access-ended
                  type: object
                valueUnsignedInt:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[0]|([1-9][0-9]*)$
                  type: number
                valueUri:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUrl:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUsageContext:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    code:
                      description: A code that identifies the type of context being
specified by this usage context
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    valueCodeableConcept:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueQuantity:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueRange:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueReference:
```

```yaml
                  description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                  type: string
                required:
                  - code
                type: object
              valueUuid:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                type: string
            type: object
          type: array
      id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
    type: object
    x-ngsi:
      type: Property
  _status:
    additionalProperties: false
    description: Extensions for status
    properties:
      extension:
        description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          additionalProperties: false
          properties:
            _url:
              additionalProperties: false
              description: Extensions for url
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _valueBase64Binary:
              additionalProperties: false
              description: Extensions for valueBase64Binary
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _valueBoolean:
              additionalProperties: false
              description: Extensions for valueBoolean
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
```

```yaml
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                _valueCanonical:
                  additionalProperties: false
                  description: Extensions for valueCanonical
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                _valueCode:
                  additionalProperties: false
                  description: Extensions for valueCode
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                _valueDate:
                  additionalProperties: false
                  description: Extensions for valueDate
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                _valueDateTime:
                  additionalProperties: false
                  description: Extensions for valueDateTime
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                _valueDecimal:
                  additionalProperties: false
                  description: Extensions for valueDecimal
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                            items:
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                    _valueId:
                      additionalProperties: false
                      description: Extensions for valueId
                      properties:
                        extension:
                          description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                            items:
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                    _valueInstant:
                      additionalProperties: false
                      description: Extensions for valueInstant
                      properties:
                        extension:
                          description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                            items:
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                    _valueInteger:
                      additionalProperties: false
                      description: Extensions for valueInteger
                      properties:
                        extension:
                          description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                            items:
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                    _valueMarkdown:
                      additionalProperties: false
                      description: Extensions for valueMarkdown
                      properties:
                        extension:
                          description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                            items:
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                    _valueOid:
                      additionalProperties: false
                      description: Extensions for valueOid
                      properties:
                        extension:
```

```yaml
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                      _valuePositiveInt:
                        additionalProperties: false
                        description: Extensions for valuePositiveInt
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                      _valueString:
                        additionalProperties: false
                        description: Extensions for valueString
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                      _valueTime:
                        additionalProperties: false
                        description: Extensions for valueTime
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                      _valueUnsignedInt:
                        additionalProperties: false
                        description: Extensions for valueUnsignedInt
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                      _valueUri:
```

```yaml
                    additionalProperties: false
                    description: Extensions for valueUri
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueUrl:
                    additionalProperties: false
                    description: Extensions for valueUrl
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueUuid:
                    additionalProperties: false
                    description: Extensions for valueUuid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  url:
                    description: Source of the definition for the extension code - a
logical name or a URL
                    pattern: ^\S*$
                    type: string
                  valueAddress:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _city:
                        description: Extensions for city
                        type: string
                      _country:
                        description: Extensions for country
                        type: string
                      _district:
                        description: Extensions for district
```

```yaml
                  type: string
                _line:
                  description: Extensions for line
                  items:
                  type: array
                _postalCode:
                  description: Extensions for postalCode
                  type: string
                _state:
                  description: Extensions for state
                  type: string
                _text:
                  description: Extensions for text
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                _use:
                  description: Extensions for use
                  type: string
                city:
                  description: 'The name of the city, town, suburb, village or
other community or delivery center'
                  type: string
                country:
                  description: Country - a nation as commonly understood or
generally accepted
                  type: string
                district:
                  description: The name of the administrative area (county)
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                line:
                  description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                  items:
                  type: array
                period:
                  description: Time period when address was/is in use
                  type: string
                postalCode:
                  description: A postal code designating a region defined by the
postal service
                  type: string
                state:
                  description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                  type: string
                text:
                  description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                  type: string
                type:
                  description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                  enum:
                    - postal
                    - physical
                    - both
                use:
                  description: The purpose of this address
                  enum:
                    - home
                    - work
                    - temp
                    - old
                    - billing
              type: object
            valueAge:
              additionalProperties: false
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  valueAnnotation:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _authorString:
                        description: Extensions for authorString
                        type: string
                      _text:
                        description: Extensions for text
                        type: string
                      _time:
                        description: Extensions for time
                        type: string
                      authorReference:
                        description: The individual responsible for making the
annotation
                        type: string
                      authorString:
                        description: The individual responsible for making the
annotation
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: The text of the annotation in markdown format
                        type: string
                      time:
                        description: Indicates when this particular annotation was
made
                        type: string
                    type: object
                valueAttachment:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _contentType:
                      description: Extensions for contentType
                      type: string
                    _creation:
                      description: Extensions for creation
                      type: string
                    _data:
                      description: Extensions for data
                      type: string
                    _hash:
                      description: Extensions for hash
                      type: string
                    _language:
                      description: Extensions for language
                      type: string
                    _size:
                      description: Extensions for size
                      type: string
                    _title:
                      description: Extensions for title
                      type: string
                    _url:
                      description: Extensions for url
                      type: string
                    contentType:
                      description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                      type: string
                    creation:
                      description: The date that the attachment was first created
                      type: string
                    data:
                      description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    hash:
                      description: The calculated hash of the data using SHA-1.
Represented using base64
                      type: string
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    language:
                      description: The human language of the content. The value can
be any valid value according to BCP 47
                      type: string
                    size:
                      description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                      type: string
                    title:
                      description: A label or set of text to display in place of the
data
                      type: string
                    url:
```

                          description: A location where the data can be accessed
                          type: string
                    type: object
                valueBase64Binary:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                    type: string
                valueBoolean:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^true|false$
                    type: boolean
                valueCanonical:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                valueCode:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                valueCodeableConcept:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
system
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                valueCodeableReference:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      concept:
                        description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      reference:
                        description: A reference to a resource the provides exact
details about the information being referenced
                        type: string
                    type: object
                valueCoding:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained

```yaml
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _display:
                      description: Extensions for display
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _userSelected:
                      description: Extensions for userSelected
                      type: string
                    _version:
                      description: Extensions for version
                      type: string
                    code:
                      description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                      type: string
                    display:
                      description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the code system that defines the meaning of the symbol in the
code
                      type: string
                    userSelected:
                      description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                      type: string
                    version:
                      description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                      type: string
                  type: object
                valueContactDetail:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _name:
                      description: Extensions for name
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    name:
                      description: The name of an individual to contact
                      type: string
                    telecom:
                      description: The contact details for the individual (if a name
was provided) or the organization
                      items:
                      type: array
                  type: object
```

```yaml
            valueContactPoint:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _rank:
                  description: Extensions for rank
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _use:
                  description: Extensions for use
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                period:
                  description: Time period when the contact point was/is in
use
                  type: string
                rank:
                  description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                  type: string
                system:
                  description: Telecommunications form for contact point - what
communications system is required to make use of the contact
                  enum:
                    - phone
                    - fax
                    - email
                    - pager
                    - url
                    - sms
                    - other
                use:
                  description: Identifies the purpose for the contact point
                  enum:
                    - home
                    - work
                    - temp
                    - old
                    - mobile
                value:
                  description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                  type: string
              type: object
            valueContributor:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _name:
                  description: Extensions for name
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                contact:
                  description: Contact details to assist a user in finding and
communicating with the contributor
                  items:
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
                      definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          name:
                            description: The name of the individual or organization
responsible for the contribution
                            type: string
                          type:
                            description: The type of contributor
                            enum:
                              - author
                              - editor
                              - reviewer
                              - endorser
                        type: object
                    valueCount:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _unit:
                          description: Extensions for unit
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        code:
                          description: A computer processable form of the unit in some
unit representation system
                          type: string
                        comparator:
                          description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          system:
                            description:
The identification of the system that provides the coded form of the unit
                            type: string
                          unit:
                            description: A human-readable form of the unit
                            type: string
                          value:
                            description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                            type: string
                        type: object
                    valueDataRequirement:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _limit:
                          description: Extensions for limit
                          type: string
```

```yaml
                            _mustSupport:
                              description: Extensions for mustSupport
                              items:
                                type: array
                            _type:
                              description: Extensions for type
                              type: string
                            codeFilter:
                              description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                              items:
                                type: array
                            dateFilter:
                              description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                              items:
                                type: array
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                            limit:
                              description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                              type: string
                            mustSupport:
                              description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
                              items:
                                type: array
                            profile:
                              description: 'The profile of the required data, specified as
the uri of the profile definition'
                              items:
                                type: array
                            sort:
                              description: Specifies the order of the results to be
returned
                              items:
                                type: array
                            subjectCodeableConcept:
                              description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                              type: string
                            subjectReference:
                              description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                              type: string
                            type:
                              description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                              type: string
                          type: object
                        valueDate:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                          type: string
                        valueDateTime:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                          type: string
```

```yaml
                  valueDecimal:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  valueDistance:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  valueDosage:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _asNeededBoolean:
                        description: Extensions for asNeededBoolean
                        type: string
                      _patientInstruction:
                        description: Extensions for patientInstruction
                        type: string
                      _sequence:
                        description: Extensions for sequence
                        type: string
                      _text:
                        description: Extensions for text
                        type: string
                      additionalInstruction:
                        description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
```

```yaml
                        or sunlamps)
                          items:
                            type: array
                        asNeededBoolean:
                          description: 'Indicates whether the Medication is only taken
              when needed within a specific dosing schedule (Boolean option), or it indicates
              the precondition for taking the Medication (CodeableConcept)'
                          pattern: ^true|false$
                          type: boolean
                        asNeededCodeableConcept:
                          description: 'Indicates whether the Medication is only taken
              when needed within a specific dosing schedule (Boolean option), or it indicates
              the precondition for taking the Medication (CodeableConcept)'
                          type: string
                        doseAndRate:
                          description: The amount of medication administered
                          items:
                            type: array
                        extension:
                          description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                          type: string
                        maxDosePerAdministration:
                          description: Upper limit on medication per administration
                          type: string
                        maxDosePerLifetime:
                          description: Upper limit on medication per lifetime of the
              patient
                          type: string
                        maxDosePerPeriod:
                          description: Upper limit on medication per unit of time
                          type: string
                        method:
                          description: Technique for administering medication
                          type: string
                        modifierExtension:
                          description: |-
                            May be used to represent additional information that is not
              part of the basic definition of the element and that modifies the understanding of
              the element in which it is contained and/or the understanding of the containing
              element's descendants. Usually modifier elements provide negation or qualification.
              To make the use of extensions safe and manageable, there is a strict set of
              governance applied to the definition and use of extensions. Though any implementer
              can define an extension, there is a set of requirements that SHALL be met as part
              of the definition of the extension. Applications processing a resource are required
              to check for modifier extensions.
                            Modifier extensions SHALL NOT change the meaning of any
              elements on Resource or DomainResource (including cannot change the meaning of
              modifierExtension itself)
                          items:
                            type: array
                        patientInstruction:
                          description: Instructions in terms that are understood by the
              patient or consumer
                          type: string
                        route:
                          description: How drug should enter body
                          type: string
                        sequence:
                          description: Indicates the order in which the dosage
              instructions should be applied or interpreted
                          type: string
                        site:
                          description: Body site to administer to
                          type: string
                        text:
                          description: Free text dosage instructions e.g. SIG
                          type: string
                        timing:
                          description: When medication should be administered
                          type: string
                      type: object
                  valueDuration:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
              set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
```

```yaml
                            _code:
                              description: Extensions for code
                              type: string
                            _comparator:
                              description: Extensions for comparator
                              type: string
                            _system:
                              description: Extensions for system
                              type: string
                            _unit:
                              description: Extensions for unit
                              type: string
                            _value:
                              description: Extensions for value
                              type: string
                            code:
                              description: A computer processable form of the unit in some
unit representation system
                              type: string
                            comparator:
                              description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                              enum:
                                - <
                                - <=
                                - '>='
                                - >
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                            system:
                              description:
The identification of the system that provides the coded form of the unit
                              type: string
                            unit:
                              description: A human-readable form of the unit
                              type: string
                            value:
                              description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                              type: string
                          type: object
                      valueExpression:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          _description:
                            description: Extensions for description
                            type: string
                          _expression:
                            description: Extensions for expression
                            type: string
                          _language:
                            description: Extensions for language
                            type: string
                          _name:
                            description: Extensions for name
                            type: string
                          _reference:
                            description: Extensions for reference
                            type: string
                          description:
                            description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                            type: string
                          expression:
                            description: An expression in the specified language that
returns a value
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
```

```yaml
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                          items:
                          type: array
                      id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      language:
                          description: The media type of the language for the
expression
                          enum:
                            - text/cql
                            - text/fhirpath
                            - application/x-fhir-query
                            - text/cql-identifier
                            - text/cql-expression
                      name:
                          description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                          type: string
                      reference:
                          description: A URI that defines where the expression is
found
                          type: string
                  type: object
              valueHumanName:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _family:
                      description: Extensions for family
                      type: string
                    _given:
                      description: Extensions for given
                      items:
                      type: array
                    _prefix:
                      description: Extensions for prefix
                      items:
                      type: array
                    _suffix:
                      description: Extensions for suffix
                      items:
                      type: array
                    _text:
                      description: Extensions for text
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    family:
                      description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
                      type: string
                    given:
                      description: Given name
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Indicates the period of time when this name was
valid for the named person
                      type: string
                    prefix:
                      description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                      items:
                      type: array
                    suffix:
```

```yaml
                        description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                        items:
                        type: array
                    text:
                        description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                        type: string
                    use:
                        description: Identifies the purpose for this name
                        enum:
                          - usual
                          - official
                          - temp
                          - nickname
                          - anonymous
                          - old
                          - maiden
                  type: object
                valueId:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[A-Za-z0-9\-\.]{1,64}$
                  type: string
                valueIdentifier:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _system:
                      description: Extensions for system
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    assigner:
                      description: Organization that issued/manages the
identifier
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Time period during which identifier is/was valid
for use
                      type: string
                    system:
                      description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                      type: string
                    type:
                      description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                      type: string
                    use:
                      description: The purpose of this identifier
                      enum:
                        - usual
                        - official
                        - temp
                        - secondary
                        - old
                    value:
                      description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                      type: string
                  type: object
                valueInstant:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
```

```
                        (0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
                        [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                      type: string
                    valueInteger:
                      description: 'Value of extension - must be one of a constrained
                set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^-?([0]|([1-9][0-9]*))$
                      type: number
                    valueMarkdown:
                      description: 'Value of extension - must be one of a constrained
                set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueMoney:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
                set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _currency:
                          description: Extensions for currency
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        currency:
                          description: ISO 4217 Currency Code
                          type: string
                        extension:
                          description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                          type: string
                        value:
                          description: Numerical value (with implicit precision)
                          type: string
                      type: object
                    valueOid:
                      description: 'Value of extension - must be one of a constrained
                set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                      type: string
                    valueParameterDefinition:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
                set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _documentation:
                          description: Extensions for documentation
                          type: string
                        _max:
                          description: Extensions for max
                          type: string
                        _min:
                          description: Extensions for min
                          type: string
                        _name:
                          description: Extensions for name
                          type: string
                        _type:
                          description: Extensions for type
                          type: string
                        _use:
                          description: Extensions for use
                          type: string
                        documentation:
                          description: A brief discussion of what the parameter is for
                and how it is used by the module
                          type: string
                        extension:
                          description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                          items:
                          type: array
                        id:
```

```yaml
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          max:
                            description: The maximum number of times this element is
permitted to appear in the request or response
                            type: string
                          min:
                            description: The minimum number of times this parameter SHALL
appear in the request or response
                            type: string
                          name:
                            description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                            type: string
                          profile:
                            description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                            type: string
                          type:
                            description: The type of the parameter
                            type: string
                          use:
                            description: Whether the parameter is input or output for the
module
                            type: string
                      type: object
                    valuePeriod:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _end:
                          description: Extensions for end
                          type: string
                        _start:
                          description: Extensions for start
                          type: string
                        end:
                          description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        start:
                          description: The start of the period. The boundary is
inclusive
                          type: string
                      type: object
                    valuePositiveInt:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                    valueQuantity:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _unit:
                          description: Extensions for unit
                          type: string
                        _value:
                          description: Extensions for value
```

```yaml
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                    type: string
                type: object
              valueRange:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of  requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  high:
                    description: The high limit. The boundary is inclusive
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  low:
                    description: The low limit. The boundary is inclusive
                    type: string
                type: object
              valueRatio:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  denominator:
                    description: The value of the denominator
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
```

```yaml
                            numerator:
                              description: The value of the numerator
                              type: string
                        type: object
                    valueRatioRange:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        denominator:
                          description: The value of the denominator
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        highNumerator:
                          description: The value of the high limit numerator
                          type: string
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        lowNumerator:
                          description: The value of the low limit numerator
                          type: string
                      type: object
                    valueReference:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _display:
                          description: Extensions for display
                          type: string
                        _reference:
                          description: Extensions for reference
                          type: string
                        _type:
                          description: Extensions for type
                          type: string
                        display:
                          description: Plain text narrative that identifies the resource
in addition to the resource reference
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        identifier:
                          description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                          type: string
                        reference:
                          description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                          type: string
                        type:
                          description: |-
                            The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
```

```
                    FHIR URL, both SHALL be consistent.
                            The type is the Canonical URL of Resource Definition that is
        the type this reference refers to. References are URLs that are relative to http://
        hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
        fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
        (and can only be used in references in logical models, not resources)
                            type: string
                    type: object
                valueRelatedArtifact:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _citation:
                      description: Extensions for citation
                      type: string
                    _display:
                      description: Extensions for display
                      type: string
                    _label:
                      description: Extensions for label
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    _url:
                      description: Extensions for url
                      type: string
                    citation:
                      description:
        A bibliographic citation for the related artifact. This text SHOULD be formatted
        according to an accepted citation format
                      type: string
                    display:
                      description: 'A brief description of the document or knowledge
        resource being referenced, suitable for display to a consumer'
                      type: string
                    document:
                      description: 'The document being referenced, represented as an
        attachment. This is exclusive with the resource element'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                      type: string
                    label:
                      description: 'A short label that can be used to reference the
        citation from elsewhere in the containing artifact, such as a footnote index'
                      type: string
                    resource:
                      description: 'The related resource, such as a library, value
        set, profile, or other knowledge resource'
                      type: string
                    type:
                      description: The type of relationship to the related
        artifact
                      enum:
                        - documentation
                        - justification
                        - citation
                        - predecessor
                        - successor
                        - derived-from
                        - depends-on
                        - composed-of
                    url:
                      description: A url for the artifact that can be followed to
        access the actual content
                      type: string
                  type: object
                valueSampledData:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _data:
                      description: Extensions for data
```

```yaml
              type: string
            _dimensions:
              description: Extensions for dimensions
              type: string
            _factor:
              description: Extensions for factor
              type: string
            _lowerLimit:
              description: Extensions for lowerLimit
              type: string
            _period:
              description: Extensions for period
              type: string
            _upperLimit:
              description: Extensions for upperLimit
              type: string
            data:
              description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
              type: string
            dimensions:
              description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: array
            factor:
              description:
A correction factor that is applied to the sampled data points before they are
added to the origin
              type: string
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            lowerLimit:
              description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
              type: string
            origin:
              description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
              type: string
            period:
              description: 'The length of time between sampling times,
measured in milliseconds'
              type: string
            upperLimit:
              description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
              type: string
          required:
            - origin
          type: object
        valueSignature:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _data:
              description: Extensions for data
              type: string
            _sigFormat:
              description: Extensions for sigFormat
              type: string
            _targetFormat:
              description: Extensions for targetFormat
              type: string
            _when:
              description: Extensions for when
              type: string
            data:
              description:
```

The base64 encoding of the Signature content. When signature is not recorded
                      electronically this element would be empty
                                    type: string
                                  extension:
                                    description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                                    items:
                                    type: array
                                  id:
                                    description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                                    type: string
                                  onBehalfOf:
                                    description: A reference to an application-usable description
                      of the identity that is represented by the signature
                                    type: string
                                  sigFormat:
                                    description: 'A mime type that indicates the technical format
                      of the signature. Important mime types are application/signature+xml for X ML
                      DigSig, application/jose for JWS, and image/* for a graphical image of a
                      signature, etc'
                                    type: string
                                  targetFormat:
                                    description:
                      A mime type that indicates the technical format of the target resources signed by
                      the signature
                                    type: string
                                  type:
                                    description:
                      An indication of the reason that the entity signed this document. This may be
                      explicitly included as part of the signature information and can be used when
                      determining accountability for various actions concerning the document
                                    items:
                                    type: array
                                  when:
                                    description: When the digital signature was signed
                                    type: string
                                  who:
                                    description: A reference to an application-usable description
                      of the identity that signed (e.g. the signature used their private key)
                                    type: string
                                required:
                                  - type
                                  - who
                                type: object
                            valueString:
                              description: 'Value of extension - must be one of a constrained
                      set of the data types (see [Extensibility](extensibility.html) for a list)'
                              pattern: '^[\r\n\t\S]+$'
                              type: string
                            valueTime:
                              description: 'Value of extension - must be one of a constrained
                      set of the data types (see [Extensibility](extensibility.html) for a list)'
                              pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
                      $
                              type: string
                            valueTiming:
                              additionalProperties: false
                              description: 'Value of extension - must be one of a constrained
                      set of the data types (see [Extensibility](extensibility.html) for a list)'
                              properties:
                                _event:
                                  description: Extensions for event
                                  items:
                                  type: array
                                code:
                                  description: 'A code for the timing schedule (or just text in
                      code.text). Some codes such as BID are ubiquitous, but many institutions define
                      their own additional codes. If a code is provided, the code is understood to be a
                      complete statement of whatever is specified in the structured timing data, and
                      either the code or the data may be used to interpret the Timing, with the
                      exception that .repeat.bounds still applies over the code (and is not contained in
                      the code)'
                                  type: string
                                event:
                                  description: Identifies specific times when the event
                      occurs
                                  items:
                                  type: array
                                extension:
                                  description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of

```
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                      type: string
                    modifierExtension:
                      description: |-
                        May be used to represent additional information that is not
        part of the basic definition of the element and that modifies the understanding of
        the element in which it is contained and/or the understanding of the containing
        element's descendants. Usually modifier elements provide negation or qualification.
        To make the use of extensions safe and manageable, there is a strict set of
        governance applied to the definition and use of extensions. Though any implementer
        can define an extension, there is a set of requirements that SHALL be met as part
        of the definition of the extension. Applications processing a resource are required
        to check for modifier extensions.
                        Modifier extensions SHALL NOT change the meaning of any
        elements on Resource or DomainResource (including cannot change the meaning of
        modifierExtension itself)
                      items:
                      type: array
                    repeat:
                      description: A set of rules that describe when the event is
        scheduled
                      type: string
                  type: object
                valueTriggerDefinition:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _name:
                      description: Extensions for name
                      type: string
                    _timingDate:
                      description: Extensions for timingDate
                      type: string
                    _timingDateTime:
                      description: Extensions for timingDateTime
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    condition:
                      description: A boolean-valued expression that is evaluated in
        the context of the container of the trigger definition and returns whether or not
        the trigger fires
                      type: string
                    data:
                      description: 'The triggering data of the event (if this is a
        data trigger). If more than one data is requirement is specified, then all the
        data requirements must be true'
                      items:
                      type: array
                    extension:
                      description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                      type: string
                    name:
                      description: 'A formal name for the event. This may be an
        absolute URI that identifies the event formally (e.g. from a trigger registry), or
        a simple relative URI that identifies the event in a local context'
                      type: string
                    timingDate:
                      description: The timing of the event (if this is a periodic
        trigger)
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
        (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                    timingDateTime:
                      description: The timing of the event (if this is a periodic
        trigger)
```

```yaml
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  timingReference:
                    description: The timing of the event (if this is a periodic
trigger)
                    type: string
                  timingTiming:
                    description: The timing of the event (if this is a periodic
trigger)
                    type: string
                  type:
                    description: The type of triggering event
                    enum:
                      - named-event
                      - periodic
                      - data-changed
                      - data-added
                      - data-modified
                      - data-removed
                      - data-accessed
                      - data-access-ended
                  type: object
              valueUnsignedInt:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[0]|([1-9][0-9]*)$
                type: number
              valueUri:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUrl:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUsageContext:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  code:
                    description: A code that identifies the type of context being
specified by this usage context
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  valueCodeableConcept:
                    description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                    type: string
                  valueQuantity:
                    description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                    type: string
                  valueRange:
                    description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                    type: string
                  valueReference:
                    description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                    type: string
                  required:
                    - code
                  type: object
              valueUuid:
                description: 'Value of extension - must be one of a constrained
```

```yaml
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                    type: string
                type: object
              type: array
          id:
            description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
        type: object
        x-ngsi:
          type: Property
    address:
      description: The mailing address
      properties:
        addressCountry:
          description: 'The country. For example, Spain'
          type: string
          x-ngsi:
            model: https://schema.org/addressCountry
            type: Property
        addressLocality:
          description: 'The locality in which the street address is, and which is
in the region'
          type: string
          x-ngsi:
            model: https://schema.org/addressLocality
            type: Property
        addressRegion:
          description: 'The region in which the locality is, and which is in the
country'
          type: string
          x-ngsi:
            model: https://schema.org/addressRegion
            type: Property
        district:
          description: 'A district is a type of administrative division that, in
some countries, is managed by the local government'
          type: string
          x-ngsi:
            type: Property
        postOfficeBoxNumber:
          description: 'The post office box number for PO box addresses. For
example, 03578'
          type: string
          x-ngsi:
            model: https://schema.org/postOfficeBoxNumber
            type: Property
        postalCode:
          description: 'The postal code. For example, 24004'
          type: string
          x-ngsi:
            model: https://schema.org/https://schema.org/postalCode
            type: Property
        streetAddress:
          description: The street address
          type: string
          x-ngsi:
            model: https://schema.org/streetAddress
            type: Property
        streetNr:
          description: Number identifying a specific property on a public
street
          type: string
          x-ngsi:
            type: Property
      type: object
      x-ngsi:
        model: https://schema.org/address
        type: Property
    alternateName:
      description: An alternative name for this item
      type: string
      x-ngsi:
        type: Property
    areaServed:
      description: The geographic area where a service or offered item is
provided
      type: string
      x-ngsi:
        model: https://schema.org/Text
        type: Property
    contained:
      description: 'These resources do not have an independent existence apart
```

```yaml
            from the resource that contains them - they cannot be identified independently,
        and nor can they have their own independent transaction scope'
              items:
                type: string
              type: array
              x-ngsi:
                type: Property
          coverage:
            description: 'The party(s) that are responsible for covering the payment of
        this account, and what order should they be applied to the account'
              items:
                additionalProperties: false
                properties:
                  _priority:
                    additionalProperties: false
                    description: Extensions for priority
                    properties:
                      extension:
                        description: 'May be used to represent additional information that
        is not part of the basic definition of the element. To make the use of extensions
        safe and manageable, there is a strict set of governance  applied to the
        definition and use of extensions. Though any implementer can define an extension,
        there is a set of requirements that SHALL be met as part of the definition of the
        extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    type: object
                coverage:
                  additionalProperties: false
                  description: |-
                    The party(s) that contribute to payment (or part of) of the charges
        applied to this account (including self-pay).

        A coverage may only be responsible for specific types of charges, and the sequence
        of the coverages in the account could be important when processing billing
                  properties:
                    _display:
                      additionalProperties: false
                      description: Extensions for display
                      properties:
                        extension:
                        description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _reference:
                      additionalProperties: false
                      description: Extensions for reference
                      properties:
                        extension:
                        description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _type:
                      additionalProperties: false
                      description: Extensions for type
                      properties:
                        extension:
                          description: 'May be used to represent additional information
```

```
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                display:
                    description: Plain text narrative that identifies the resource in
addition to the resource reference
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                identifier:
                    additionalProperties: false
                    description: 'An identifier for the target resource. This is used
when there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
                        properties:
                          _system:
                            description: Extensions for system
                            type: string
                          _use:
                            description: Extensions for use
                            type: string
                          _value:
                            description: Extensions for value
                            type: string
                          assigner:
                            description: Organization that issued/manages the
identifier
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                                type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          period:
                            description: Time period during which identifier is/was valid
for use
                            type: string
                          system:
                            description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                            type: string
                          type:
                            description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                            type: string
                          use:
                            description: The purpose of this identifier
                            enum:
```

```yaml
                                - usual
                                - official
                                - temp
                                - secondary
                                - old
                        value:
                          description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                          type: string
                      type: object
                  reference:
                    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  type:
                    description: |-
                        The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                        The type is the Canonical URL of Resource Definition that is the
type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                    pattern: ^\S*$
                    type: string
                type: object
            extension:
              description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    description: Extensions for url
                    type: string
                  _valueBase64Binary:
                    description: Extensions for valueBase64Binary
                    type: string
                  _valueBoolean:
                    description: Extensions for valueBoolean
                    type: string
                  _valueCanonical:
                    description: Extensions for valueCanonical
                    type: string
                  _valueCode:
                    description: Extensions for valueCode
                    type: string
                  _valueDate:
                    description: Extensions for valueDate
                    type: string
                  _valueDateTime:
                    description: Extensions for valueDateTime
                    type: string
                  _valueDecimal:
                    description: Extensions for valueDecimal
                    type: string
                  _valueId:
                    description: Extensions for valueId
                    type: string
                  _valueInstant:
                    description: Extensions for valueInstant
                    type: string
                  _valueInteger:
                    description: Extensions for valueInteger
                    type: string
                  _valueMarkdown:
                    description: Extensions for valueMarkdown
                    type: string
                  _valueOid:
                    description: Extensions for valueOid
                    type: string
                  _valuePositiveInt:
                    description: Extensions for valuePositiveInt
                    type: string
                  _valueString:
```

```yaml
                description: Extensions for valueString
                type: string
            _valueTime:
                description: Extensions for valueTime
                type: string
            _valueUnsignedInt:
                description: Extensions for valueUnsignedInt
                type: string
            _valueUri:
                description: Extensions for valueUri
                type: string
            _valueUrl:
                description: Extensions for valueUrl
                type: string
            _valueUuid:
                description: Extensions for valueUuid
                type: string
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            url:
                description: Source of the definition for the extension code - a
logical name or a URL
                type: string
            valueAddress:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                type: string
            valueAge:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                type: string
            valueAnnotation:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                type: string
            valueAttachment:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                type: string
            valueBase64Binary:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                type: string
            valueBoolean:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^true|false$
                type: boolean
            valueCanonical:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
            valueCode:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[^\s]+(\s[^\s]+)*$
                type: string
            valueCodeableConcept:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                type: string
            valueCodeableReference:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                type: string
            valueCoding:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                type: string
            valueContactDetail:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
                    type: string
                valueContactPoint:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueContributor:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueCount:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueDataRequirement:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueDate:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                valueDateTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                valueDecimal:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                valueDistance:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueDosage:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueDuration:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueExpression:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueHumanName:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueId:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[A-Za-z0-9\-\.]{1,64}$
                    type: string
                valueIdentifier:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueInstant:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                    type: string
                valueInteger:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?([0]|([1-9][0-9]*))$
                    type: number
                valueMarkdown:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                valueMoney:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueOid:
```

```yaml
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                        type: string
                      valueParameterDefinition:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valuePeriod:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valuePositiveInt:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[1-9][0-9]*$
                        type: number
                      valueQuantity:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueRange:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueRatio:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueRatioRange:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueReference:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueRelatedArtifact:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueSampledData:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueSignature:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueString:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      valueTime:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                        type: string
                      valueTiming:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueTriggerDefinition:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueUnsignedInt:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[0]|([1-9][0-9]*)$
                        type: number
                      valueUri:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^\S*$
                        type: string
                      valueUrl:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^\S*$
                        type: string
                      valueUsageContext:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
                    type: string
                  valueUuid:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
        {4}-[0-9a-f]{12}$
                    type: string
                type: object
              type: array
          id:
            description: Unique id for the element within a resource (for internal
        references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          modifierExtension:
            description: |-
              May be used to represent additional information that is not part of
        the basic definition of the element and that modifies the understanding of the
        element in which it is contained and/or the understanding of the containing
        element's descendants. Usually modifier elements provide negation or qualification.
        To make the use of extensions safe and manageable, there is a strict set of
        governance applied to the definition and use of extensions. Though any implementer
        can define an extension, there is a set of requirements that SHALL be met as part
        of the definition of the extension. Applications processing a resource are required
        to check for modifier extensions.
              Modifier extensions SHALL NOT change the meaning of any elements on
        Resource or DomainResource (including cannot change the meaning of
        modifierExtension itself)
            items:
              additionalProperties: false
              properties:
                _url:
                  description: Extensions for url
                  type: string
                _valueBase64Binary:
                  description: Extensions for valueBase64Binary
                  type: string
                _valueBoolean:
                  description: Extensions for valueBoolean
                  type: string
                _valueCanonical:
                  description: Extensions for valueCanonical
                  type: string
                _valueCode:
                  description: Extensions for valueCode
                  type: string
                _valueDate:
                  description: Extensions for valueDate
                  type: string
                _valueDateTime:
                  description: Extensions for valueDateTime
                  type: string
                _valueDecimal:
                  description: Extensions for valueDecimal
                  type: string
                _valueId:
                  description: Extensions for valueId
                  type: string
                _valueInstant:
                  description: Extensions for valueInstant
                  type: string
                _valueInteger:
                  description: Extensions for valueInteger
                  type: string
                _valueMarkdown:
                  description: Extensions for valueMarkdown
                  type: string
                _valueOid:
                  description: Extensions for valueOid
                  type: string
                _valuePositiveInt:
                  description: Extensions for valuePositiveInt
                  type: string
                _valueString:
                  description: Extensions for valueString
                  type: string
                _valueTime:
                  description: Extensions for valueTime
                  type: string
                _valueUnsignedInt:
                  description: Extensions for valueUnsignedInt
                  type: string
                _valueUri:
                  description: Extensions for valueUri
                  type: string
                _valueUrl:
```

```yaml
                        description: Extensions for valueUrl
                        type: string
                    _valueUuid:
                        description: Extensions for valueUuid
                        type: string
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                            type: string
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    url:
                        description: Source of the definition for the extension code - a
logical name or a URL
                        type: string
                    valueAddress:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueAge:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueAnnotation:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueAttachment:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueBase64Binary:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                        type: string
                    valueBoolean:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^true|false$
                        type: boolean
                    valueCanonical:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^\S*$
                        type: string
                    valueCode:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[^\s]+(\s[^\s]+)*$
                        type: string
                    valueCodeableConcept:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueCodeableReference:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueCoding:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueContactDetail:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueContactPoint:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueContributor:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueCount:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
                  type: string
                valueDataRequirement:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueDate:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                  type: string
                valueDateTime:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                  type: string
                valueDecimal:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                  type: number
                valueDistance:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueDosage:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueDuration:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueExpression:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueHumanName:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueId:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[A-Za-z0-9\-\.]{1,64}$
                  type: string
                valueIdentifier:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueInstant:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                  type: string
                valueInteger:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^-?([0]|([1-9][0-9]*))$
                  type: number
                valueMarkdown:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                valueMoney:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueOid:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                  type: string
                valueParameterDefinition:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valuePeriod:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
```

```yaml
                    valuePositiveInt:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                    valueQuantity:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueRange:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueRatio:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueRatioRange:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueReference:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueRelatedArtifact:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueSampledData:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueSignature:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueString:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueTime:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                      type: string
                    valueTiming:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueTriggerDefinition:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueUnsignedInt:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[0]|([1-9][0-9]*)$
                      type: number
                    valueUri:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^\S*$
                      type: string
                    valueUrl:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^\S*$
                      type: string
                    valueUsageContext:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueUuid:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                      type: string
                  type: object
                type: array
            priority:
              description: The priority of the coverage in the context of this
account
```

```yaml
                    pattern: ^[1-9][0-9]*$
                    type: number
              required:
                - coverage
              type: object
          type: array
        x-ngsi:
          type: Property
      dataProvider:
        description: A sequence of characters identifying the provider of the
harmonised data entity
        type: string
        x-ngsi:
          type: Property
      dateCreated:
        description:
Entity creation timestamp. This will usually be allocated by the storage
platform
        format: date-time
        type: string
        x-ngsi:
          type: Property
      dateModified:
        description: Timestamp of the last modification of the entity. This will
usually be allocated by the storage platform
        format: date-time
        type: string
        x-ngsi:
          type: Property
      description:
        description: Provides additional information about what the account tracks
and how it is used
        pattern: '^[ \r\n\t\S]+$'
        type: string
        x-ngsi:
          type: Property
      extension:
        description: 'May be used to represent additional information that is not
part of the basic definition of the resource. To make the use of extensions safe
and manageable, there is a strict set of governance  applied to the definition and
use of extensions. Though any implementer can define an extension, there is a set
of requirements that SHALL be met as part of the definition of the extension'
        items:
          additionalProperties: false
          properties:
            _url:
              additionalProperties: false
              description: Extensions for url
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
            _valueBase64Binary:
              additionalProperties: false
              description: Extensions for valueBase64Binary
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
            _valueBoolean:
```

```yaml
                  additionalProperties: false
                  description: Extensions for valueBoolean
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _valueCanonical:
                  additionalProperties: false
                  description: Extensions for valueCanonical
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _valueCode:
                  additionalProperties: false
                  description: Extensions for valueCode
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _valueDate:
                  additionalProperties: false
                  description: Extensions for valueDate
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _valueDateTime:
                  additionalProperties: false
                  description: Extensions for valueDateTime
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
```

```yaml
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                    type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valueDecimal:
            additionalProperties: false
            description: Extensions for valueDecimal
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                    type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valueId:
            additionalProperties: false
            description: Extensions for valueId
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                    type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valueInstant:
            additionalProperties: false
            description: Extensions for valueInstant
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                    type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valueInteger:
            additionalProperties: false
            description: Extensions for valueInteger
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                    type: string
```

```yaml
                    type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valueMarkdown:
            additionalProperties: false
            description: Extensions for valueMarkdown
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valueOid:
            additionalProperties: false
            description: Extensions for valueOid
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valuePositiveInt:
            additionalProperties: false
            description: Extensions for valuePositiveInt
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valueString:
            additionalProperties: false
            description: Extensions for valueString
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
```

```yaml
          type: object
        _valueTime:
          additionalProperties: false
          description: Extensions for valueTime
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
        _valueUnsignedInt:
          additionalProperties: false
          description: Extensions for valueUnsignedInt
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
        _valueUri:
          additionalProperties: false
          description: Extensions for valueUri
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
        _valueUrl:
          additionalProperties: false
          description: Extensions for valueUrl
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
        _valueUuid:
          additionalProperties: false
          description: Extensions for valueUuid
          properties:
            extension:
```

```yaml
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                type: object
            extension:
              description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    description: Extensions for url
                    type: string
                  _valueBase64Binary:
                    description: Extensions for valueBase64Binary
                    type: string
                  _valueBoolean:
                    description: Extensions for valueBoolean
                    type: string
                  _valueCanonical:
                    description: Extensions for valueCanonical
                    type: string
                  _valueCode:
                    description: Extensions for valueCode
                    type: string
                  _valueDate:
                    description: Extensions for valueDate
                    type: string
                  _valueDateTime:
                    description: Extensions for valueDateTime
                    type: string
                  _valueDecimal:
                    description: Extensions for valueDecimal
                    type: string
                  _valueId:
                    description: Extensions for valueId
                    type: string
                  _valueInstant:
                    description: Extensions for valueInstant
                    type: string
                  _valueInteger:
                    description: Extensions for valueInteger
                    type: string
                  _valueMarkdown:
                    description: Extensions for valueMarkdown
                    type: string
                  _valueOid:
                    description: Extensions for valueOid
                    type: string
                  _valuePositiveInt:
                    description: Extensions for valuePositiveInt
                    type: string
                  _valueString:
                    description: Extensions for valueString
                    type: string
                  _valueTime:
                    description: Extensions for valueTime
                    type: string
                  _valueUnsignedInt:
                    description: Extensions for valueUnsignedInt
                    type: string
                  _valueUri:
                    description: Extensions for valueUri
                    type: string
                  _valueUrl:
                    description: Extensions for valueUrl
                    type: string
                  _valueUuid:
                    description: Extensions for valueUuid
                    type: string
                  extension:
```

```yaml
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    url:
                      description: Source of the definition for the extension code - a
logical name or a URL
                      type: string
                    valueAddress:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueAge:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueAnnotation:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueAttachment:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueBase64Binary:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                      type: string
                    valueBoolean:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^true|false$
                      type: boolean
                    valueCanonical:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^\S*$
                      type: string
                    valueCode:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[^\s]+(\s[^\s]+)*$
                      type: string
                    valueCodeableConcept:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueCodeableReference:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueCoding:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueContactDetail:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueContactPoint:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueContributor:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueCount:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueDataRequirement:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueDate:
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                  valueDateTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  valueDecimal:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  valueDistance:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueDosage:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueDuration:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueExpression:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueHumanName:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueId:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[A-Za-z0-9\-\.]{1,64}$
                    type: string
                  valueIdentifier:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueInstant:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                    type: string
                  valueInteger:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?([0]|([1-9][0-9]*))$
                    type: number
                  valueMarkdown:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueMoney:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueOid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                  valueParameterDefinition:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valuePeriod:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valuePositiveInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[1-9][0-9]*$
                    type: number
                  valueQuantity:
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueRange:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueRatio:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueRatioRange:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueReference:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueRelatedArtifact:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueSampledData:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueSignature:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueString:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                    type: string
                  valueTiming:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueTriggerDefinition:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueUnsignedInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[0]|([1-9][0-9]*)$
                    type: number
                  valueUri:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUrl:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUsageContext:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueUuid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                    type: string
                type: object
              type: array
          id:
            description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          url:
            description: Source of the definition for the extension code - a
logical name or a URL
            pattern: ^\S*$
```

```yaml
                    type: string
              valueAddress:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _city:
                    additionalProperties: false
                    description: Extensions for city
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _country:
                    additionalProperties: false
                    description: Extensions for country
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _district:
                    additionalProperties: false
                    description: Extensions for district
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _line:
                    description: Extensions for line
                    items:
                      type: string
                    type: array
                  _postalCode:
                    additionalProperties: false
                    description: Extensions for postalCode
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
```

```yaml
                          type: object
                        _state:
                          additionalProperties: false
                          description: Extensions for state
                          properties:
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: string
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                        _text:
                          additionalProperties: false
                          description: Extensions for text
                          properties:
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: string
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                        _type:
                          additionalProperties: false
                          description: Extensions for type
                          properties:
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: string
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                        _use:
                          additionalProperties: false
                          description: Extensions for use
                          properties:
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: string
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                        city:
                          description: 'The name of the city, town, suburb, village or other
community or delivery center'
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        country:
                          description:
Country - a nation as commonly understood or generally accepted
                          pattern: '^[ \r\n\t\S]+$'
```

```yaml
            type: string
          district:
            description: The name of the administrative area (county)
            pattern: '^[ \r\n\t\S]+$'
            type: string
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          line:
            description: 'This component contains the house number, apartment
number, street name, street direction,  P.O. Box number, delivery hints, and
similar address information'
            items:
              type: string
            type: array
          period:
            additionalProperties: false
            description: Time period when address was/is in use
            properties:
              _end:
                description: Extensions for end
                type: string
              _start:
                description: Extensions for start
                type: string
              end:
                description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              start:
                description: The start of the period. The boundary is
inclusive
                type: string
            type: object
          postalCode:
            description: A postal code designating a region defined by the
postal service
            pattern: '^[ \r\n\t\S]+$'
            type: string
          state:
            description: Sub-unit of a country with limited sovereignty in a
federally organized country. A code may be used if codes are in common use (e.g. US
2 letter state codes)
            pattern: '^[ \r\n\t\S]+$'
            type: string
          text:
            description:
Specifies the entire address as it should be displayed e.g. on a postal label. This
may be provided instead of or as well as the specific parts
            pattern: '^[ \r\n\t\S]+$'
            type: string
          type:
            description: Distinguishes between physical addresses (those you
can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
            enum:
            - postal
            - physical
```

```yaml
                  - both
              use:
                description: The purpose of this address
                enum:
                  - home
                  - work
                  - temp
                  - old
                  - billing
            type: object
        valueAge:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _code:
              additionalProperties: false
              description: Extensions for code
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _comparator:
              additionalProperties: false
              description: Extensions for comparator
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _system:
              additionalProperties: false
              description: Extensions for system
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _unit:
              additionalProperties: false
              description: Extensions for unit
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
```

```yaml
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                    type: object
                _value:
                    additionalProperties: false
                    description: Extensions for value
                    properties:
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                    type: string
                                type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                    type: object
                code:
                    description: A computer processable form of the unit in some unit
representation system
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                comparator:
                    description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
                    enum:
                        - <
                        - <=
                        - '>='
                        - >
                extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                            type: string
                        type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                system:
                    description: The identification of the system that provides the
coded form of the unit
                        pattern: ^\S*$
                        type: string
                unit:
                    description: A human-readable form of the unit
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                value:
                    description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
                        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                        type: number
            type: object
        valueAnnotation:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
                _authorString:
                    additionalProperties: false
                    description: Extensions for authorString
                    properties:
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
```

```yaml
                              type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _text:
                    additionalProperties: false
                    description: Extensions for text
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _time:
                    additionalProperties: false
                    description: Extensions for time
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  authorReference:
                    additionalProperties: false
                    description: The individual responsible for making the
annotation
                    properties:
                      _display:
                        description: Extensions for display
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      display:
                        description: Plain text narrative that identifies the resource
in addition to the resource reference
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      identifier:
                        description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
```

```
                      type: string
                 reference:
                    description: "A reference to a location at which the other
        resource is found. The reference may be a relative reference, in which case it is
        relative to the service base URL, or an absolute URL that resolves to the location
        where the resource is found. The reference may be version specific or not. If the
        reference is not to a FHIR RESTful server, then it should be assumed to be version
        specific. Internal fragment references (start with '#') refer to contained
        resources"
                      type: string
                 type:
                    description: |-
                      The expected type of the target of the reference. If both
        Reference.type and Reference.reference are populated and Reference.reference is a
        FHIR URL, both SHALL be consistent.
                      The type is the Canonical URL of Resource Definition that is
        the type this reference refers to. References are URLs that are relative to http://
        hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
        fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
        (and can only be used in references in logical models, not resources)
                      type: string
                  type: object
              authorString:
                 description: The individual responsible for making the
        annotation
                 pattern: '^[ \r\n\t\S]+$'
                 type: string
              extension:
                 description: 'May be used to represent additional information that
        is not part of the basic definition of the element. To make the use of extensions
        safe and manageable, there is a strict set of governance  applied to the
        definition and use of extensions. Though any implementer can define an extension,
        there is a set of requirements that SHALL be met as part of the definition of the
        extension'
                 items:
                    type: string
                 type: array
              id:
                 description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                 pattern: '^[ \r\n\t\S]+$'
                 type: string
              text:
                 description: The text of the annotation in markdown format
                 pattern: '^[ \r\n\t\S]+$'
                 type: string
              time:
                 description: Indicates when this particular annotation was made
                 pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
        (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
        [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                 type: string
              type: object
            valueAttachment:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained set of
        the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _contentType:
                  additionalProperties: false
                  description: Extensions for contentType
                  properties:
                    extension:
                      description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _creation:
                  additionalProperties: false
                  description: Extensions for creation
                  properties:
                    extension:
                      description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
```

```yaml
                        extension, there is a set of requirements that SHALL be met as part of the
                        definition of the extension'
                                  items:
                                    type: string
                                  type: array
                                id:
                                  description: Unique id for the element within a resource (for
                        internal references). This may be any string value that does not contain spaces
                                  type: string
                              type: object
                          _data:
                            additionalProperties: false
                            description: Extensions for data
                            properties:
                              extension:
                                description: 'May be used to represent additional information
                        that is not part of the basic definition of the element. To make the use of
                        extensions safe and manageable, there is a strict set of governance  applied to
                        the definition and use of extensions. Though any implementer can define an
                        extension, there is a set of requirements that SHALL be met as part of the
                        definition of the extension'
                                  items:
                                    type: string
                                  type: array
                                id:
                                  description: Unique id for the element within a resource (for
                        internal references). This may be any string value that does not contain spaces
                                  type: string
                              type: object
                          _hash:
                            additionalProperties: false
                            description: Extensions for hash
                            properties:
                              extension:
                                description: 'May be used to represent additional information
                        that is not part of the basic definition of the element. To make the use of
                        extensions safe and manageable, there is a strict set of governance  applied to
                        the definition and use of extensions. Though any implementer can define an
                        extension, there is a set of requirements that SHALL be met as part of the
                        definition of the extension'
                                  items:
                                    type: string
                                  type: array
                                id:
                                  description: Unique id for the element within a resource (for
                        internal references). This may be any string value that does not contain spaces
                                  type: string
                              type: object
                          _language:
                            additionalProperties: false
                            description: Extensions for language
                            properties:
                              extension:
                                description: 'May be used to represent additional information
                        that is not part of the basic definition of the element. To make the use of
                        extensions safe and manageable, there is a strict set of governance  applied to
                        the definition and use of extensions. Though any implementer can define an
                        extension, there is a set of requirements that SHALL be met as part of the
                        definition of the extension'
                                  items:
                                    type: string
                                  type: array
                                id:
                                  description: Unique id for the element within a resource (for
                        internal references). This may be any string value that does not contain spaces
                                  type: string
                              type: object
                          _size:
                            additionalProperties: false
                            description: Extensions for size
                            properties:
                              extension:
                                description: 'May be used to represent additional information
                        that is not part of the basic definition of the element. To make the use of
                        extensions safe and manageable, there is a strict set of governance  applied to
                        the definition and use of extensions. Though any implementer can define an
                        extension, there is a set of requirements that SHALL be met as part of the
                        definition of the extension'
                                  items:
                                    type: string
                                  type: array
                                id:
                                  description: Unique id for the element within a resource (for
                        internal references). This may be any string value that does not contain spaces
                                  type: string
                              type: object
```

```
              _title:
                additionalProperties: false
                description: Extensions for title
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _url:
                additionalProperties: false
                description: Extensions for url
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              contentType:
                description: Identifies the type of the data in the attachment and
allows a method to be chosen to interpret or render the data. Includes mime type
parameters such as charset where appropriate
                pattern: ^[^\s]+(\s[^\s]+)*$
                type: string
              creation:
                description: The date that the attachment was first created
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                type: string
              data:
                description: 'The actual data of the attachment - a sequence of
bytes, base64 encoded'
                type: string
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              hash:
                description: The calculated hash of the data using SHA-1.
Represented using base64
                type: string
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              language:
                description: The human language of the content. The value can be
any valid value according to BCP 47
                pattern: ^[^\s]+(\s[^\s]+)*$
                type: string
              size:
                description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                pattern: ^[0]|([1-9][0-9]*)$
                type: number
              title:
                description: A label or set of text to display in place of the
data
```

```yaml
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                url:
                  description: A location where the data can be accessed
                  pattern: ^\S*$
                  type: string
              type: object
          valueBase64Binary:
            description: 'Value of extension - must be one of a constrained set of
              the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
            type: string
          valueBoolean:
            description: 'Value of extension - must be one of a constrained set of
              the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^true|false$
            type: boolean
          valueCanonical:
            description: 'Value of extension - must be one of a constrained set of
              the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^\S*$
            type: string
          valueCode:
            description: 'Value of extension - must be one of a constrained set of
              the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^[^\s]+(\s[^\s]+)*$
            type: string
          valueCodeableConcept:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
              the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _text:
                additionalProperties: false
                description: Extensions for text
                properties:
                  extension:
                    description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              coding:
                description: A reference to a code defined by a terminology
                  system
                items:
                  type: string
                type: array
              extension:
                description: 'May be used to represent additional information that
                  is not part of the basic definition of the element. To make the use of extensions
                  safe and manageable, there is a strict set of governance  applied to the
                  definition and use of extensions. Though any implementer can define an extension,
                  there is a set of requirements that SHALL be met as part of the definition of the
                  extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              text:
                description: A human language representation of the concept as
                  seen/selected/uttered by the user who entered the data and/or which represents the
                  intended meaning of the user
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          valueCodeableReference:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
              the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              concept:
                additionalProperties: false
```

```yaml
                    description: A reference to a concept - e.g. the information is
identified by its general class to the degree of precision found in the
terminology
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
system
                        items:
                          type: string
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  reference:
                    additionalProperties: false
                    description: A reference to a resource the provides exact details
about the information being referenced
                    properties:
                      _display:
                        description: Extensions for display
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      display:
                        description: Plain text narrative that identifies the resource
in addition to the resource reference
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      identifier:
                        description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
```

```
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                        type: string
                    reference:
                        description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                        type: string
                    type:
                        description: |-
                            The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                            The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                        type: string
                type: object
            type: object
        valueCoding:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
                _code:
                    additionalProperties: false
                    description: Extensions for code
                    properties:
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                                type: string
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                    type: object
                _display:
                    additionalProperties: false
                    description: Extensions for display
                    properties:
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                                type: string
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                    type: object
                _system:
                    additionalProperties: false
                    description: Extensions for system
                    properties:
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                                type: string
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

```yaml
                    type: string
              type: object
            _userSelected:
              additionalProperties: false
              description: Extensions for userSelected
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _version:
              additionalProperties: false
              description: Extensions for version
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            code:
              description: A symbol in syntax defined by the system. The symbol
may be a predefined code or an expression in a syntax defined by the coding system
(e.g. post-coordination)
              pattern: ^[^\s]+(\s[^\s]+)*$
              type: string
            display:
              description: 'A representation of the meaning of the code in the
system, following the rules of the system'
              pattern: '^[ \r\n\t\S]+$'
              type: string
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            system:
              description:
The identification of the code system that defines the meaning of the symbol in the
code
              pattern: ^\S*$
              type: string
            userSelected:
              description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
              pattern: ^true|false$
              type: boolean
            version:
              description: 'The version of the code system which was used when
choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
```

```yaml
          valueContactDetail:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
  the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _name:
                additionalProperties: false
                description: Extensions for name
                properties:
                  extension:
                    description: 'May be used to represent additional information
  that is not part of the basic definition of the element. To make the use of
  extensions safe and manageable, there is a strict set of governance  applied to
  the definition and use of extensions. Though any implementer can define an
  extension, there is a set of requirements that SHALL be met as part of the
  definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
  internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              extension:
                description: 'May be used to represent additional information that
  is not part of the basic definition of the element. To make the use of extensions
  safe and manageable, there is a strict set of governance  applied to the
  definition and use of extensions. Though any implementer can define an extension,
  there is a set of requirements that SHALL be met as part of the definition of the
  extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
  internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              name:
                description: The name of an individual to contact
                pattern: '^[ \r\n\t\S]+$'
                type: string
              telecom:
                description: The contact details for the individual (if a name was
  provided) or the organization
                items:
                  type: string
                type: array
            type: object
          valueContactPoint:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
  the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _rank:
                additionalProperties: false
                description: Extensions for rank
                properties:
                  extension:
                    description: 'May be used to represent additional information
  that is not part of the basic definition of the element. To make the use of
  extensions safe and manageable, there is a strict set of governance  applied to
  the definition and use of extensions. Though any implementer can define an
  extension, there is a set of requirements that SHALL be met as part of the
  definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
  internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _system:
                additionalProperties: false
                description: Extensions for system
                properties:
                  extension:
                    description: 'May be used to represent additional information
  that is not part of the basic definition of the element. To make the use of
  extensions safe and manageable, there is a strict set of governance  applied to
  the definition and use of extensions. Though any implementer can define an
  extension, there is a set of requirements that SHALL be met as part of the
  definition of the extension'
                    items:
```

```yaml
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _use:
                additionalProperties: false
                description: Extensions for use
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _value:
                additionalProperties: false
                description: Extensions for value
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              period:
                additionalProperties: false
                description: Time period when the contact point was/is in use
                properties:
                  _end:
                    description: Extensions for end
                    type: string
                  _start:
                    description: Extensions for start
                    type: string
                  end:
                    description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
```

```yaml
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            start:
              description: The start of the period. The boundary is
inclusive
              type: string
          type: object
        rank:
          description: Specifies a preferred order in which to use a set of
contacts. ContactPoints with lower rank values are more preferred than those with
higher rank values
          pattern: ^[1-9][0-9]*$
          type: number
        system:
          description: Telecommunications form for contact point - what
communications system is required to make use of the contact
          enum:
            - phone
            - fax
            - email
            - pager
            - url
            - sms
            - other
        use:
          description: Identifies the purpose for the contact point
          enum:
            - home
            - work
            - temp
            - old
            - mobile
        value:
          description: 'The actual contact point details, in a form that is
meaningful to the designated communication system (i.e. phone number or email
address)'
          pattern: '^[ \r\n\t\S]+$'
          type: string
      type: object
    valueContributor:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _name:
          additionalProperties: false
          description: Extensions for name
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        _type:
          additionalProperties: false
          description: Extensions for type
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        contact:
          description: Contact details to assist a user in finding and
```

```yaml
                communicating with the contributor
                        items:
                            type: string
                        type: array
                    extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                            type: string
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    name:
                        description:
The name of the individual or organization responsible for the contribution
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    type:
                        description: The type of contributor
                        enum:
                            - author
                            - editor
                            - reviewer
                            - endorser
                type: object
            valueCount:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                    _code:
                        additionalProperties: false
                        description: Extensions for code
                        properties:
                            extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                    type: string
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                        type: object
                    _comparator:
                        additionalProperties: false
                        description: Extensions for comparator
                        properties:
                            extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                    type: string
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                        type: object
                    _system:
                        additionalProperties: false
                        description: Extensions for system
                        properties:
                            extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

```yaml
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        _unit:
          additionalProperties: false
          description: Extensions for unit
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        _value:
          additionalProperties: false
          description: Extensions for value
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        code:
          description: A computer processable form of the unit in some unit
representation system
          pattern: ^[^\s]+(\s[^\s]+)*$
          type: string
        comparator:
          description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
          enum:
            - <
            - <=
            - '>='
            - >
        extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        system:
          description: The identification of the system that provides the
coded form of the unit
          pattern: ^\S*$
          type: string
        unit:
          description: A human-readable form of the unit
          pattern: '^[ \r\n\t\S]+$'
          type: string
        value:
```

```yaml
                  description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                type: object
          valueDataRequirement:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _limit:
                additionalProperties: false
                description: Extensions for limit
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _mustSupport:
                description: Extensions for mustSupport
                items:
                  type: string
                type: array
              _type:
                additionalProperties: false
                description: Extensions for type
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              codeFilter:
                description: 'Code filters specify additional constraints on the
data, specifying the value set of interest for a particular element of the data.
Each code filter defines an additional constraint on the data, i.e. code filters
are AND''ed, not OR''ed'
                items:
                  type: string
                type: array
              dateFilter:
                description: 'Date filters specify additional constraints on the
data in terms of the applicable date range for specific elements. Each date filter
specifies an additional constraint on the data, i.e. date filters are AND''ed, not
OR''ed'
                items:
                  type: string
                type: array
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              limit:
                description: Specifies a maximum number of results that are
```

```yaml
required (uses the _count search parameter)
                  pattern: ^[1-9][0-9]*$
                  type: number
            mustSupport:
              description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
              items:
                type: string
              type: array
            profile:
              description: 'The profile of the required data, specified as the
uri of the profile definition'
              items:
                type: string
              type: array
            sort:
              description: Specifies the order of the results to be returned
              items:
                type: string
              type: array
            subjectCodeableConcept:
              additionalProperties: false
              description: 'The intended subjects of the data requirement. If
this element is not provided, a Patient subject is assumed'
              properties:
                _text:
                  description: Extensions for text
                  type: string
                coding:
                  description: A reference to a code defined by a terminology
system
                  items:
                    type: string
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                text:
                  description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                  type: string
              type: object
            subjectReference:
              additionalProperties: false
              description: 'The intended subjects of the data requirement. If
this element is not provided, a Patient subject is assumed'
              properties:
                _display:
                  description: Extensions for display
                  type: string
                _reference:
                  description: Extensions for reference
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                display:
                  description: Plain text narrative that identifies the resource
in addition to the resource reference
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
```

```yaml
                      type: string
                type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            identifier:
              description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
              type: string
            reference:
              description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
              type: string
            type:
              description: |-
                The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
              type: string
          type: object
        type:
          description: 'The type of the required data, specified as the type
name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
          pattern: ^[^\s]+(\s[^\s]+)*$
          type: string
      type: object
    valueDate:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-(0[1-9]|
1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
      type: string
    valueDateTime:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-(0[1-9]|
1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)
(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
      type: string
    valueDecimal:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
      type: number
    valueDistance:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _code:
          additionalProperties: false
          description: Extensions for code
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
```

```yaml
                _comparator:
                  additionalProperties: false
                  description: Extensions for comparator
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _system:
                  additionalProperties: false
                  description: Extensions for system
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _unit:
                  additionalProperties: false
                  description: Extensions for unit
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _value:
                  additionalProperties: false
                  description: Extensions for value
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                code:
                  description: A computer processable form of the unit in some unit
representation system
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                comparator:
                  description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
```

```yaml
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                system:
                  description: The identification of the system that provides the
coded form of the unit
                  pattern: ^\S*$
                  type: string
                unit:
                  description: A human-readable form of the unit
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                value:
                  description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
                  pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                  type: number
              type: object
            valueDosage:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _asNeededBoolean:
                  additionalProperties: false
                  description: Extensions for asNeededBoolean
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _patientInstruction:
                  additionalProperties: false
                  description: Extensions for patientInstruction
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _sequence:
                  additionalProperties: false
                  description: Extensions for sequence
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
```

```yaml
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _text:
                    additionalProperties: false
                    description: Extensions for text
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                additionalInstruction:
                  description: Supplemental instructions to the patient on how to
take the medication  (e.g. with meals ortake half to one hour before food) or
warnings for the patient about the medication (e.g. may cause drowsiness or avoid
exposure of skin to direct sunlight or sunlamps)
                  items:
                    type: string
                  type: array
                asNeededBoolean:
                  description: 'Indicates whether the Medication is only taken when
needed within a specific dosing schedule (Boolean option), or it indicates the
precondition for taking the Medication (CodeableConcept)'
                  pattern: ^true|false$
                  type: boolean
                asNeededCodeableConcept:
                  additionalProperties: false
                  description: 'Indicates whether the Medication is only taken when
needed within a specific dosing schedule (Boolean option), or it indicates the
precondition for taking the Medication (CodeableConcept)'
                  properties:
                    _text:
                      description: Extensions for text
                      type: string
                    coding:
                      description: A reference to a code defined by a terminology
system
                      items:
                        type: string
                      type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    text:
                      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                      type: string
                  type: object
                doseAndRate:
                  description: The amount of medication administered
                  items:
                    type: string
                  type: array
                extension:
                  description: 'May be used to represent additional information that
```

```yaml
            is not part of the basic definition of the element. To make the use of extensions
            safe and manageable, there is a strict set of governance  applied to the
            definition and use of extensions. Though any implementer can define an extension,
            there is a set of requirements that SHALL be met as part of the definition of the
            extension'
                  items:
                    type: string
                  type: array
              id:
                  description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              maxDosePerAdministration:
                  additionalProperties: false
                  description: Upper limit on medication per administration
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
          unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
          represented - whether the actual value is greater or less than the stated value
          due to measurement issues; e.g. if the comparator is < , then the real value is <
          stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description: >
          The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
          includes an implicit precision in the presentation of the value
                      type: string
                  type: object
              maxDosePerLifetime:
                  additionalProperties: false
                  description: Upper limit on medication per lifetime of the
          patient
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
```

```yaml
                              _unit:
                                description: Extensions for unit
                                type: string
                              _value:
                                description: Extensions for value
                                type: string
                              code:
                                description: A computer processable form of the unit in some
unit representation system
                                type: string
                              comparator:
                                description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                                enum:
                                  - <
                                  - <=
                                  - '>='
                                  - >
                              extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                  type: string
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                              system:
                                description:
The identification of the system that provides the coded form of the unit
                                type: string
                              unit:
                                description: A human-readable form of the unit
                                type: string
                              value:
                                description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                                type: string
                            type: object
                        maxDosePerPeriod:
                          additionalProperties: false
                          description: Upper limit on medication per unit of time
                          properties:
                            denominator:
                              description: The value of the denominator
                              type: string
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: string
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                            numerator:
                              description: The value of the numerator
                              type: string
                          type: object
                      method:
                        additionalProperties: false
                        description: Technique for administering medication
                        properties:
                          _text:
                            description: Extensions for text
                            type: string
                          coding:
                            description: A reference to a code defined by a terminology
system
                            items:
                              type: string
                            type: array
                          extension:
                            description: 'May be used to represent additional information
```

```yaml
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                      type: string
                    text:
                      description: A human language representation of the concept as
              seen/selected/uttered by the user who entered the data and/or which represents the
              intended meaning of the user
                      type: string
                  type: object
                modifierExtension:
                  description: |-
                    May be used to represent additional information that is not part
              of the basic definition of the element and that modifies the understanding of the
              element in which it is contained and/or the understanding of the containing
              element's descendants. Usually modifier elements provide negation or qualification.
              To make the use of extensions safe and manageable, there is a strict set of
              governance applied to the definition and use of extensions. Though any implementer
              can define an extension, there is a set of requirements that SHALL be met as part
              of the definition of the extension. Applications processing a resource are required
              to check for modifier extensions.
                    Modifier extensions SHALL NOT change the meaning of any elements
              on Resource or DomainResource (including cannot change the meaning of
              modifierExtension itself)
                  items:
                    type: string
                  type: array
                patientInstruction:
                  description: Instructions in terms that are understood by the
              patient or consumer
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                route:
                  additionalProperties: false
                  description: How drug should enter body
                  properties:
                    _text:
                      description: Extensions for text
                      type: string
                    coding:
                      description: A reference to a code defined by a terminology
              system
                      items:
                        type: string
                      type: array
                    extension:
                      description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                      type: string
                    text:
                      description: A human language representation of the concept as
              seen/selected/uttered by the user who entered the data and/or which represents the
              intended meaning of the user
                      type: string
                  type: object
                sequence:
                  description: Indicates the order in which the dosage instructions
              should be applied or interpreted
                  pattern: ^-?([0]|([1-9][0-9]*))$
                  type: number
                site:
                  additionalProperties: false
                  description: Body site to administer to
                  properties:
                    _text:
                      description: Extensions for text
                      type: string
                    coding:
```

```yaml
                    description: A reference to a code defined by a terminology
system
                    items:
                      type: string
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  text:
                    description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                    type: string
                type: object
            text:
              description: Free text dosage instructions e.g. SIG
              pattern: '^[ \r\n\t\S]+$'
              type: string
            timing:
              additionalProperties: false
              description: When medication should be administered
              properties:
                _event:
                  description: Extensions for event
                  items:
                    type: string
                  type: array
                code:
                  description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                  type: string
                event:
                  description: Identifies specific times when the event
occurs
                  items:
                    type: string
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                modifierExtension:
                  description: |-
                    May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                    Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                  items:
                    type: string
                  type: array
                repeat:
                  description: A set of rules that describe when the event is
```

```yaml
scheduled
                      type: string
                  type: object
              type: object
          valueDuration:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _code:
                additionalProperties: false
                description: Extensions for code
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _comparator:
                additionalProperties: false
                description: Extensions for comparator
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _system:
                additionalProperties: false
                description: Extensions for system
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _unit:
                additionalProperties: false
                description: Extensions for unit
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _value:
```

```yaml
                    additionalProperties: false
                    description: Extensions for value
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  code:
                    description: A computer processable form of the unit in some unit
representation system
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  comparator:
                    description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  system:
                    description: The identification of the system that provides the
coded form of the unit
                    pattern: ^\S*$
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  value:
                    description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                type: object
              valueExpression:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _description:
                    additionalProperties: false
                    description: Extensions for description
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
```

```
              type: object
          _expression:
            additionalProperties: false
            description: Extensions for expression
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _language:
            additionalProperties: false
            description: Extensions for language
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _name:
            additionalProperties: false
            description: Extensions for name
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _reference:
            additionalProperties: false
            description: Extensions for reference
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          description:
            description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
            pattern: '^[ \r\n\t\S]+$'
            type: string
          expression:
            description:
An expression in the specified language that returns a value
            pattern: '^[ \r\n\t\S]+$'
```

```
                          type: string
                      extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      language:
                        description: The media type of the language for the expression
                        enum:
                          - text/cql
                          - text/fhirpath
                          - application/x-fhir-query
                          - text/cql-identifier
                          - text/cql-expression
                      name:
                        description: A short name assigned to the expression to allow for
multiple reuse of the expression in the context where it is defined
                        pattern: ^[A-Za-z0-9\-\.]{1,64}$
                        type: string
                      reference:
                        description: A URI that defines where the expression is found
                        pattern: ^\S*$
                        type: string
                    type: object
                valueHumanName:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _family:
                      additionalProperties: false
                      description: Extensions for family
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _given:
                      description: Extensions for given
                      items:
                        type: string
                      type: array
                    _prefix:
                      description: Extensions for prefix
                      items:
                        type: string
                      type: array
                    _suffix:
                      description: Extensions for suffix
                      items:
                        type: string
                      type: array
                    _text:
                      additionalProperties: false
                      description: Extensions for text
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
```

```yaml
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                type: object
            _use:
              additionalProperties: false
              description: Extensions for use
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                type: object
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            family:
              description: The part of a name that links to the genealogy. In
some cultures (e.g. Eritrea) the family name of a son is the first name of his
father
              pattern: '^[ \r\n\t\S]+$'
              type: string
            given:
              description: Given name
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            period:
              additionalProperties: false
              description: Indicates the period of time when this name was valid
for the named person
              properties:
                _end:
                  description: Extensions for end
                  type: string
                _start:
                  description: Extensions for start
                  type: string
                end:
                  description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                start:
                  description: The start of the period. The boundary is
inclusive
                  type: string
```

```yaml
                    type: object
                prefix:
                    description: 'Part of the name that is acquired as a title due to
academic, legal, employment or nobility status, etc. and that appears at the start
of the name'
                    items:
                      type: string
                    type: array
                suffix:
                    description: 'Part of the name that is acquired as a title due to
academic, legal, employment or nobility status, etc. and that appears at the end
of the name'
                    items:
                      type: string
                    type: array
                text:
                    description: Specifies the entire name as it should be displayed
e.g. on an application UI. This may be provided instead of or as well as the
specific parts
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                use:
                  description: Identifies the purpose for this name
                  enum:
                    - usual
                    - official
                    - temp
                    - nickname
                    - anonymous
                    - old
                    - maiden
            type: object
          valueId:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^[A-Za-z0-9\-\.]{1,64}$
            type: string
          valueIdentifier:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _system:
                additionalProperties: false
                description: Extensions for system
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _use:
                additionalProperties: false
                description: Extensions for use
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _value:
                additionalProperties: false
                description: Extensions for value
                properties:
                  extension:
                    description: 'May be used to represent additional information
```

```
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                    assigner:
                      additionalProperties: false
                      description: Organization that issued/manages the identifier
                      properties:
                        _display:
                          description: Extensions for display
                          type: string
                        _reference:
                          description: Extensions for reference
                          type: string
                        _type:
                          description: Extensions for type
                          type: string
                        display:
                          description: Plain text narrative that identifies the resource
              in addition to the resource reference
                          type: string
                        extension:
                          description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of  requirements that SHALL be met as part of the
              definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                            type: string
                        identifier:
                          description: 'An identifier for the target resource. This is
              used when there is no way to reference the other resource directly, either because
              the entity it represents is not available through a FHIR server, or because there
              is no way for the author of the resource to convert a known identifier to an
              actual location. There is no requirement that a Reference.identifier point to
              something that is actually exposed as a FHIR instance, but it SHALL point to a
              business concept that would be expected to be exposed as a FHIR instance, and that
              instance would need to be of a FHIR resource type allowed by the reference'
                          type: string
                        reference:
                          description: "A reference to a location at which the other
              resource is found. The reference may be a relative reference, in which case it is
              relative to the service base URL, or an absolute URL that resolves to the location
              where the resource is found. The reference may be version specific or not. If the
              reference is not to a FHIR RESTful server, then it should be assumed to be version
              specific. Internal fragment references (start with '#') refer to contained
              resources"
                          type: string
                        type:
                          description: |-
                            The expected type of the target of the reference. If both
              Reference.type and Reference.reference are populated and Reference.reference is a
              FHIR URL, both SHALL be consistent.

                            The type is the Canonical URL of Resource Definition that is
              the type this reference refers to. References are URLs that are relative to http://
              hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
              fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
              (and can only be used in references in logical models, not resources)
                          type: string
                      type: object
                  extension:
                    description: 'May be used to represent additional information that
              is not part of the basic definition of the element. To make the use of extensions
              safe and manageable, there is a strict set of governance  applied to the
              definition and use of extensions. Though any implementer can define an extension,
              there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                    items:
                      type: string
                    type: array
                  id:
```

```yaml
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  period:
                    additionalProperties: false
                    description: Time period during which identifier is/was valid for
use
                    properties:
                      _end:
                        description: Extensions for end
                        type: string
                      _start:
                        description: Extensions for start
                        type: string
                      end:
                        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      start:
                        description: The start of the period. The boundary is
inclusive
                        type: string
                    type: object
                  system:
                    description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
                    pattern: ^\S*$
                    type: string
                  type:
                    additionalProperties: false
                    description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
system
                        items:
                          type: string
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                  use:
                    description: The purpose of this identifier
                    enum:
                      - usual
                      - official
                      - temp
                      - secondary
```

```yaml
                        - old
                value:
                  description: The portion of the identifier typically relevant to
the user and which is unique within the context of the system
                    pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
            valueInstant:
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-(0[1-9]|
1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
              type: string
            valueInteger:
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^-?([0]|([1-9][0-9]*))$
              type: number
            valueMarkdown:
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: '^[ \r\n\t\S]+$'
              type: string
            valueMoney:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _currency:
                  additionalProperties: false
                  description: Extensions for currency
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                _value:
                  additionalProperties: false
                  description: Extensions for value
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                currency:
                  description: ISO 4217 Currency Code
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
```

```yaml
              value:
                description: Numerical value (with implicit precision)
                pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                type: number
            type: object
        valueOid:
          description: 'Value of extension - must be one of a constrained set of
            the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
          type: string
        valueParameterDefinition:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
            the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _documentation:
              additionalProperties: false
              description: Extensions for documentation
              properties:
                extension:
                  description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _max:
              additionalProperties: false
              description: Extensions for max
              properties:
                extension:
                  description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _min:
              additionalProperties: false
              description: Extensions for min
              properties:
                extension:
                  description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _name:
              additionalProperties: false
              description: Extensions for name
              properties:
                extension:
                  description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                  items:
                    type: string
                  type: array
```

```yaml
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _type:
                  additionalProperties: false
                  description: Extensions for type
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                _use:
                  additionalProperties: false
                  description: Extensions for use
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                documentation:
                  description: A brief discussion of what the parameter is for and
how it is used by the module
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                max:
                  description: The maximum number of times this element is permitted
to appear in the request or response
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                min:
                  description: The minimum number of times this parameter SHALL
appear in the request or response
                  pattern: ^-?([0]|([1-9][0-9]*))$
                  type: number
                name:
                  description: The name of the parameter used to allow access to the
value of the parameter in evaluation contexts
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                profile:
                  description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                  pattern: ^\S*$
                  type: string
                type:
                  description: The type of the parameter
                  pattern: ^[^\s]+(\s[^\s]+)*$
```

```yaml
                type: string
              use:
                description: Whether the parameter is input or output for the
module
                pattern: ^[^\s]+(\s[^\s]+)*$
                type: string
            type: object
        valuePeriod:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _end:
              additionalProperties: false
              description: Extensions for end
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _start:
              additionalProperties: false
              description: Extensions for start
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of  requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            end:
              description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
              pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
              type: string
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            start:
              description: The start of the period. The boundary is inclusive
              pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
              type: string
          type: object
        valuePositiveInt:
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^[1-9][0-9]*$
          type: number
```

```yaml
        valueQuantity:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _code:
              additionalProperties: false
              description: Extensions for code
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _comparator:
              additionalProperties: false
              description: Extensions for comparator
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _system:
              additionalProperties: false
              description: Extensions for system
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _unit:
              additionalProperties: false
              description: Extensions for unit
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _value:
              additionalProperties: false
              description: Extensions for value
              properties:
                extension:
```

```yaml
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                code:
                    description: A computer processable form of the unit in some unit
representation system
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                comparator:
                    description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                system:
                    description: The identification of the system that provides the
coded form of the unit
                    pattern: ^\S*$
                    type: string
                unit:
                    description: A human-readable form of the unit
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                value:
                    description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
            type: object
          valueRange:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
              high:
                additionalProperties: false
                description: The high limit. The boundary is inclusive
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
```

```yaml
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
              code:
                description: A computer processable form of the unit in some
unit representation system
                type: string
              comparator:
                description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                enum:
                  - <
                  - <=
                  - '>='
                  - >
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              system:
                description:
The identification of the system that provides the coded form of the unit
                type: string
              unit:
                description: A human-readable form of the unit
                type: string
              value:
                description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                type: string
            type: object
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          low:
            additionalProperties: false
            description: The low limit. The boundary is inclusive
            properties:
              _code:
                description: Extensions for code
                type: string
              _comparator:
                description: Extensions for comparator
                type: string
              _system:
                description: Extensions for system
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
              code:
                description: A computer processable form of the unit in some
unit representation system
                type: string
              comparator:
                description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                enum:
                  - <
                  - <=
                  - '>='
                  - >
              extension:
```

```yaml
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                type: object
            valueRatio:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                denominator:
                  additionalProperties: false
                  description: The value of the denominator
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
```

```yaml
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                numerator:
                  additionalProperties: false
                  description: The value of the numerator
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
              type: object
          valueRatioRange:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              denominator:
                additionalProperties: false
```

```yaml
                    description: The value of the denominator
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                highNumerator:
                  additionalProperties: false
                  description: The value of the high limit numerator
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
```

```yaml
                          code:
                            description: A computer processable form of the unit in some
unit representation system
                            type: string
                          comparator:
                            description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                            enum:
                              - <
                              - <=
                              - '>='
                              - >
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of  requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          system:
                            description:
The identification of the system that provides the coded form of the unit
                            type: string
                          unit:
                            description: A human-readable form of the unit
                            type: string
                          value:
                            description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                            type: string
                        type: object
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    lowNumerator:
                      additionalProperties: false
                      description: The value of the low limit numerator
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _unit:
                          description: Extensions for unit
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        code:
                          description: A computer processable form of the unit in some
unit representation system
                          type: string
                        comparator:
                          description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of  requirements that SHALL be met as part of the
definition of the extension'
                          items:
```

```
                                type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                  type: object
              type: object
          valueReference:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _display:
                additionalProperties: false
                description: Extensions for display
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _reference:
                additionalProperties: false
                description: Extensions for reference
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _type:
                additionalProperties: false
                description: Extensions for type
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              display:
                description: Plain text narrative that identifies the resource in
addition to the resource reference
                pattern: '^[ \r\n\t\S]+$'
                type: string
```

```yaml
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
          identifier:
            additionalProperties: false
            description: 'An identifier for the target resource. This is used
when there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
            properties:
              _system:
                description: Extensions for system
                type: string
              _use:
                description: Extensions for use
                type: string
              _value:
                description: Extensions for value
                type: string
              assigner:
                description: Organization that issued/manages the
identifier
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              period:
                description: Time period during which identifier is/was valid
for use
                type: string
              system:
                description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                type: string
              type:
                description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                type: string
              use:
                description: The purpose of this identifier
                enum:
                  - usual
                  - official
                  - temp
                  - secondary
                  - old
              value:
                description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                type: string
            type: object
          reference:
            description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
```

```yaml
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type:
                    description: |-
                      The expected type of the target of the reference. If both
              Reference.type and Reference.reference are populated and Reference.reference is a
              FHIR URL, both SHALL be consistent.
                      The type is the Canonical URL of Resource Definition that is the
              type this reference refers to. References are URLs that are relative to http://
              hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
              fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
              (and can only be used in references in logical models, not resources)
                      pattern: ^\S*$
                      type: string
                  type: object
              valueRelatedArtifact:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
              the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _citation:
                    additionalProperties: false
                    description: Extensions for citation
                    properties:
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _display:
                    additionalProperties: false
                    description: Extensions for display
                    properties:
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _label:
                    additionalProperties: false
                    description: Extensions for label
                    properties:
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _type:
                    additionalProperties: false
                    description: Extensions for type
                    properties:
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
```

```
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                                    items:
                                      type: string
                                    type: array
                                  id:
                                    description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                    type: string
                                type: object
                              _url:
                                additionalProperties: false
                                description: Extensions for url
                                properties:
                                  extension:
                                    description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                                    items:
                                      type: string
                                    type: array
                                  id:
                                    description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                    type: string
                                type: object
                            citation:
                              description: A bibliographic citation for the related artifact.
                    This text SHOULD be formatted according to an accepted citation format
                              pattern: '^[ \r\n\t\S]+$'
                              type: string
                            display:
                              description: 'A brief description of the document or knowledge
                    resource being referenced, suitable for display to a consumer'
                              pattern: '^[ \r\n\t\S]+$'
                              type: string
                            document:
                              additionalProperties: false
                              description: 'The document being referenced, represented as an
                    attachment. This is exclusive with the resource element'
                              properties:
                                _contentType:
                                  description: Extensions for contentType
                                  type: string
                                _creation:
                                  description: Extensions for creation
                                  type: string
                                _data:
                                  description: Extensions for data
                                  type: string
                                _hash:
                                  description: Extensions for hash
                                  type: string
                                _language:
                                  description: Extensions for language
                                  type: string
                                _size:
                                  description: Extensions for size
                                  type: string
                                _title:
                                  description: Extensions for title
                                  type: string
                                _url:
                                  description: Extensions for url
                                  type: string
                                contentType:
                                  description: Identifies the type of the data in the attachment
                    and allows a method to be chosen to interpret or render the data. Includes mime
                    type parameters such as charset where appropriate
                                  type: string
                                creation:
                                  description: The date that the attachment was first created
                                  type: string
                                data:
                                  description: 'The actual data of the attachment - a sequence
                    of bytes, base64 encoded'
                                  type: string
                                extension:
                                  description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
definition of the extension'
                      items:
                        type: string
                      type: array
                  hash:
                    description: The calculated hash of the data using SHA-1.
Represented using base64
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  language:
                    description: The human language of the content. The value can
be any valid value according to BCP 47
                    type: string
                  size:
                    description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                    type: string
                  title:
                    description: A label or set of text to display in place of the
data
                    type: string
                  url:
                    description: A location where the data can be accessed
                    type: string
                type: object
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              label:
                description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
                pattern: '^[ \r\n\t\S]+$'
                type: string
              resource:
                description: 'The related resource, such as a library, value set,
profile, or other knowledge resource'
                pattern: ^\S*$
                type: string
              type:
                description: The type of relationship to the related artifact
                enum:
                  - documentation
                  - justification
                  - citation
                  - predecessor
                  - successor
                  - derived-from
                  - depends-on
                  - composed-of
              url:
                description: A url for the artifact that can be followed to access
the actual content
                pattern: ^\S*$
                type: string
            type: object
        valueSampledData:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _data:
              additionalProperties: false
              description: Extensions for data
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

```yaml
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _dimensions:
                additionalProperties: false
                description: Extensions for dimensions
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _factor:
                additionalProperties: false
                description: Extensions for factor
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _lowerLimit:
                additionalProperties: false
                description: Extensions for lowerLimit
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _period:
                additionalProperties: false
                description: Extensions for period
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _upperLimit:
                additionalProperties: false
```

```yaml
                description: Extensions for upperLimit
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            data:
              description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
              pattern: '^[ \r\n\t\S]+$'
              type: string
            dimensions:
              description: 'The number of sample points at each time point. If
this value is greater than one, then the dimensions will be interlaced - all the
sample points for a point in time will be recorded at once'
              pattern: ^[1-9][0-9]*$
              type: number
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            factor:
              description: A correction factor that is applied to the sampled
data points before they are added to the origin
              pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
              type: number
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            lowerLimit:
              description: The lower limit of detection of the measured points.
This is needed if any of the data points have the value L (lower than detection
limit)
              pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
              type: number
            origin:
              additionalProperties: false
              description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
```

```yaml
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  period:
                    description: 'The length of time between sampling times, measured
in milliseconds'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  upperLimit:
                    description: The upper limit of detection of the measured points.
This is needed if any of the data points have the value U (higher than detection
limit)
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                required:
                  - origin
                type: object
            valueSignature:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _data:
                  additionalProperties: false
                  description: Extensions for data
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _sigFormat:
                  additionalProperties: false
                  description: Extensions for sigFormat
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

```yaml
                    type: string
                type: object
              _targetFormat:
                additionalProperties: false
                description: Extensions for targetFormat
                properties:
                  extension:
                    description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _when:
                additionalProperties: false
                description: Extensions for when
                properties:
                  extension:
                    description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              data:
                description: The base64 encoding of the Signature content. When
                  signature is not recorded electronically this element would be empty
                type: string
              extension:
                description: 'May be used to represent additional information that
                  is not part of the basic definition of the element. To make the use of extensions
                  safe and manageable, there is a strict set of governance  applied to the
                  definition and use of extensions. Though any implementer can define an extension,
                  there is a set of requirements that SHALL be met as part of the definition of the
                  extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              onBehalfOf:
                additionalProperties: false
                description: A reference to an application-usable description of
                  the identity that is represented by the signature
                properties:
                  _display:
                    description: Extensions for display
                    type: string
                  _reference:
                    description: Extensions for reference
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  display:
                    description: Plain text narrative that identifies the resource
                      in addition to the resource reference
                    type: string
                  extension:
                    description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                    items:
                      type: string
```

```yaml
                      type: array
              id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
              identifier:
                  description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                      type: string
              reference:
                  description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                      type: string
              type:
                  description: |-
                      The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                      The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                      type: string
              type: object
          sigFormat:
              description: 'A mime type that indicates the technical format of
the signature. Important mime types are application/signature+xml for X ML DigSig,
application/jose for JWS, and image/* for a graphical image of a signature,
etc'
              pattern: ^[^\s]+(\s[^\s]+)*$
              type: string
          targetFormat:
              description:
A mime type that indicates the technical format of the target resources signed by
the signature
              pattern: ^[^\s]+(\s[^\s]+)*$
              type: string
          type:
              description: An indication of the reason that the entity signed
this document. This may be explicitly included as part of the signature information
and can be used when determining accountability for various actions concerning the
document
              items:
                  type: string
              type: array
          when:
              description: When the digital signature was signed
              pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
              type: string
          who:
              additionalProperties: false
              description: A reference to an application-usable description of
the identity that signed  (e.g. the signature used their private key)
              properties:
                  _display:
                      description: Extensions for display
                      type: string
                  _reference:
                      description: Extensions for reference
                      type: string
                  _type:
                      description: Extensions for type
                      type: string
                  display:
                      description: Plain text narrative that identifies the resource
in addition to the resource reference
                      type: string
                  extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: string
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                            type: string
                          identifier:
                            description: 'An identifier for the target resource. This is
                    used when there is no way to reference the other resource directly, either because
                    the entity it represents is not available through a FHIR server, or because there
                    is no way for the author of the resource to convert a known identifier to an
                    actual location. There is no requirement that a Reference.identifier point to
                    something that is actually exposed as a FHIR instance, but it SHALL point to a
                    business concept that would be expected to be exposed as a FHIR instance, and that
                    instance would need to be of a FHIR resource type allowed by the reference'
                            type: string
                          reference:
                            description: "A reference to a location at which the other
                    resource is found. The reference may be a relative reference, in which case it is
                    relative to the service base URL, or an absolute URL that resolves to the location
                    where the resource is found. The reference may be version specific or not. If the
                    reference is not to a FHIR RESTful server, then it should be assumed to be version
                    specific. Internal fragment references (start with '#') refer to contained
                    resources"
                            type: string
                          type:
                            description: |-
                              The expected type of the target of the reference. If both
                    Reference.type and Reference.reference are populated and Reference.reference is a
                    FHIR URL, both SHALL be consistent.
                              The type is the Canonical URL of Resource Definition that is
                    the type this reference refers to. References are URLs that are relative to http://
                    hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
                    fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
                    (and can only be used in references in logical models, not resources)
                            type: string
                        type: object
                      required:
                        - type
                        - who
                      type: object
                  valueString:
                    description: 'Value of extension - must be one of a constrained set of
                    the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueTime:
                    description: 'Value of extension - must be one of a constrained set of
                    the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?$
                    type: string
                  valueTiming:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained set of
                    the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _event:
                        description: Extensions for event
                        items:
                          type: string
                        type: array
                      code:
                        additionalProperties: false
                        description: 'A code for the timing schedule (or just text in
                    code.text). Some codes such as BID are ubiquitous, but many institutions define
                    their own additional codes. If a code is provided, the code is understood to be a
                    complete statement of whatever is specified in the structured timing data, and
                    either the code or the data may be used to interpret the Timing, with the
                    exception that .repeat.bounds still applies over the code (and is not contained in
                    the code)'
                        properties:
                          _text:
                            description: Extensions for text
                            type: string
                          coding:
                            description: A reference to a code defined by a terminology
                    system
                            items:
                              type: string
                            type: array
                          extension:
                            description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
```

```yaml
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                            items:
                               type: string
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                            type: string
                        text:
                            description: A human language representation of the concept as
              seen/selected/uttered by the user who entered the data and/or which represents the
              intended meaning of the user
                            type: string
                    type: object
                event:
                    description: Identifies specific times when the event occurs
                    items:
                        type: string
                    type: array
                extension:
                    description: 'May be used to represent additional information that
              is not part of the basic definition of the element. To make the use of extensions
              safe and manageable, there is a strict set of governance  applied to the
              definition and use of extensions. Though any implementer can define an extension,
              there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                    items:
                        type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                modifierExtension:
                    description: |-
                        May be used to represent additional information that is not part
              of the basic definition of the element and that modifies the understanding of the
              element in which it is contained and/or the understanding of the containing
              element's descendants. Usually modifier elements provide negation or qualification.
              To make the use of extensions safe and manageable, there is a strict set of
              governance applied to the definition and use of extensions. Though any implementer
              can define an extension, there is a set of requirements that SHALL be met as part
              of the definition of the extension. Applications processing a resource are required
              to check for modifier extensions.
                        Modifier extensions SHALL NOT change the meaning of any elements
              on Resource or DomainResource (including cannot change the meaning of
              modifierExtension itself)
                    items:
                        type: string
                    type: array
                repeat:
                    additionalProperties: false
                    description: A set of rules that describe when the event is
              scheduled
                    properties:
                        _count:
                            description: Extensions for count
                            type: string
                        _countMax:
                            description: Extensions for countMax
                            type: string
                        _dayOfWeek:
                            description: Extensions for dayOfWeek
                            items:
                                type: string
                            type: array
                        _duration:
                            description: Extensions for duration
                            type: string
                        _durationMax:
                            description: Extensions for durationMax
                            type: string
                        _durationUnit:
                            description: Extensions for durationUnit
                            type: string
                        _frequency:
                            description: Extensions for frequency
                            type: string
                        _frequencyMax:
                            description: Extensions for frequencyMax
                            type: string
                        _offset:
```

```yaml
                              description: Extensions for offset
                              type: string
                          _period:
                            description: Extensions for period
                            type: string
                          _periodMax:
                            description: Extensions for periodMax
                            type: string
                          _periodUnit:
                            description: Extensions for periodUnit
                            type: string
                          _timeOfDay:
                            description: Extensions for timeOfDay
                            items:
                              type: string
                            type: array
                          _when:
                            description: Extensions for when
                            items:
                              type: string
                            type: array
                          boundsDuration:
                            description: 'Either a duration for the length of the timing
schedule, a range of possible length, or outer bounds for start and/or end limits
of the timing schedule'
                            type: string
                          boundsPeriod:
                            description: 'Either a duration for the length of the timing
schedule, a range of possible length, or outer bounds for start and/or end limits
of the timing schedule'
                            type: string
                          boundsRange:
                            description: 'Either a duration for the length of the timing
schedule, a range of possible length, or outer bounds for start and/or end limits
of the timing schedule'
                            type: string
                          count:
                            description: 'A total count of the desired number of
repetitions across the duration of the entire timing specification. If countMax is
present, this element indicates the lower bound of the allowed range of count
values'
                            type: string
                          countMax:
                            description: 'If present, indicates that the count is a range
- so to perform the action between [count] and [countMax] times'
                            type: string
                          dayOfWeek:
                            description: 'If one or more days of week is provided, then
the action happens only on the specified day(s)'
                            items:
                              type: string
                            type: array
                          duration:
                            description: 'How long this thing happens for when it happens.
If durationMax is present, this element indicates the lower bound of the allowed
range of the duration'
                            type: string
                          durationMax:
                            description: 'If present, indicates that the duration is a
range - so to perform the action between [duration] and [durationMax] time
length'
                            type: string
                          durationUnit:
                            description: 'The units of time for the duration, in UCUM
units'
                            enum:
                              - s
                              - min
                              - h
                              - d
                              - wk
                              - mo
                              - a
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          frequency:
                            description: 'The number of times to repeat the action within
the specified period. If frequencyMax is present, this element indicates the lower
```

```
bound of the allowed range of the frequency'
                        type: string
                frequencyMax:
                    description: 'If present, indicates that the frequency is a
range - so to repeat between [frequency] and [frequencyMax] times within the
period or period range'
                        type: string
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                modifierExtension:
                    description: |-
                        May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                        Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                    items:
                        type: string
                    type: array
                offset:
                    description: 'The number of minutes from the event. If the
event code does not indicate whether the minutes is before or after the event,
then the offset is assumed to be after the event'
                        type: string
                period:
                    description: 'Indicates the duration of time over which
repetitions are to occur; e.g. to express 3 times per day, 3 would be the
frequency and 1 day would be the period. If periodMax is present, this element
indicates the lower bound of the allowed range of the period length'
                        type: string
                periodMax:
                    description: 'If present, indicates that the period is a range
from [period] to [periodMax], allowing expressing concepts such as do this once
every 3-5 days'
                        type: string
                periodUnit:
                    description: The units of time for the period in UCUM units
                    enum:
                      - s
                      - min
                      - h
                      - d
                      - wk
                      - mo
                      - a
                timeOfDay:
                    description: Specified time of day for action to take place
                    items:
                        type: string
                    type: array
                when:
                    description: 'An approximate time period during the day,
potentially linked to an event of daily living that indicates when the action
should occur'
                    items:
                        enum:
                          - MORN
                          - MORN.early
                          - MORN.late
                          - NOON
                          - AFT
                          - AFT.early
                          - AFT.late
                          - EVE
                          - EVE.early
                          - EVE.late
                          - NIGHT
                          - PHS
                          - HS
                          - WAKE
                          - C
                          - CM
                          - CD
                          - CV
                          - AC
                          - ACM
                          - ACD
```

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                      - ACV
                      - PC
                      - PCM
                      - PCD
                      - PCV
                  type: array
              type: object
          type: object
        valueTriggerDefinition:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _name:
              additionalProperties: false
              description: Extensions for name
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _timingDate:
              additionalProperties: false
              description: Extensions for timingDate
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _timingDateTime:
              additionalProperties: false
              description: Extensions for timingDateTime
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _type:
              additionalProperties: false
              description: Extensions for type
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
```

```yaml
                internal references). This may be any string value that does not contain spaces
                  type: string
                type: object
              condition:
                additionalProperties: false
                description: A boolean-valued expression that is evaluated in the
                  context of the container of the trigger definition and returns whether or not the
                  trigger fires
                properties:
                  _description:
                    description: Extensions for description
                    type: string
                  _expression:
                    description: Extensions for expression
                    type: string
                  _language:
                    description: Extensions for language
                    type: string
                  _name:
                    description: Extensions for name
                    type: string
                  _reference:
                    description: Extensions for reference
                    type: string
                  description:
                    description: 'A brief, natural language description of the
                      condition that effectively communicates the intended semantics'
                    type: string
                  expression:
                    description: An expression in the specified language that
                      returns a value
                    type: string
                  extension:
                    description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                    type: string
                  language:
                    description: The media type of the language for the
                      expression
                    enum:
                      - text/cql
                      - text/fhirpath
                      - application/x-fhir-query
                      - text/cql-identifier
                      - text/cql-expression
                  name:
                    description: A short name assigned to the expression to allow
                      for multiple reuse of the expression in the context where it is defined
                    type: string
                  reference:
                    description: A URI that defines where the expression is
                      found
                    type: string
                type: object
              data:
                description: 'The triggering data of the event (if this is a data
                  trigger). If more than one data is requirement is specified, then all the data
                  requirements must be true'
                items:
                  type: string
                type: array
              extension:
                description: 'May be used to represent additional information that
                  is not part of the basic definition of the element. To make the use of extensions
                  safe and manageable, there is a strict set of governance  applied to the
                  definition and use of extensions. Though any implementer can define an extension,
                  there is a set of requirements that SHALL be met as part of the definition of the
                  extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
```

```
            name:
              description: 'A formal name for the event. This may be an absolute
URI that identifies the event formally (e.g. from a trigger registry), or a simple
relative URI that identifies the event in a local context'
              pattern: '^[ \r\n\t\S]+$'
              type: string
            timingDate:
              description: The timing of the event (if this is a periodic
trigger)
              pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
              type: string
            timingDateTime:
              description: The timing of the event (if this is a periodic
trigger)
              pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
              type: string
            timingReference:
              additionalProperties: false
              description: The timing of the event (if this is a periodic
trigger)
              properties:
                _display:
                  description: Extensions for display
                  type: string
                _reference:
                  description: Extensions for reference
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                display:
                  description: Plain text narrative that identifies the resource
in addition to the resource reference
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                identifier:
                  description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                  type: string
                reference:
                  description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                  type: string
                type:
                  description: |-
                    The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                    The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                  type: string
              type: object
            timingTiming:
              additionalProperties: false
              description: The timing of the event (if this is a periodic
trigger)
```

```yaml
                    properties:
                      _event:
                        description: Extensions for event
                        items:
                          type: string
                        type: array
                      code:
                        description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                        type: string
                      event:
                        description: Identifies specific times when the event
occurs
                        items:
                          type: string
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      modifierExtension:
                        description: |-
                          May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                          Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                        items:
                          type: string
                        type: array
                      repeat:
                        description: A set of rules that describe when the event is
scheduled
                        type: string
                    type: object
                  type:
                    description: The type of triggering event
                    enum:
                      - named-event
                      - periodic
                      - data-changed
                      - data-added
                      - data-modified
                      - data-removed
                      - data-accessed
                      - data-access-ended
                type: object
              valueUnsignedInt:
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[0]|([1-9][0-9]*)$
                type: number
              valueUri:
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUrl:
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUsageContext:
                additionalProperties: false
```

```yaml
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              code:
                additionalProperties: false
                description: A code that identifies the type of context being
specified by this usage context
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _display:
                    description: Extensions for display
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _userSelected:
                    description: Extensions for userSelected
                    type: string
                  _version:
                    description: Extensions for version
                    type: string
                  code:
                    description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                    type: string
                  display:
                    description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description: >-
The identification of the code system that defines the meaning of the symbol in the
code
                    type: string
                  userSelected:
                    description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                    type: string
                  version:
                    description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                    type: string
                type: object
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              valueCodeableConcept:
                additionalProperties: false
                description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
                properties:
                  _text:
                    description: Extensions for text
                    type: string
```

```yaml
                coding:
                  description: A reference to a code defined by a terminology
system
                  items:
                    type: string
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                text:
                  description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                  type: string
              type: object
            valueQuantity:
              additionalProperties: false
              description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
The identification of the system that provides the coded form of the unit
                  type: string
                unit:
                  description: A human-readable form of the unit
                  type: string
                value:
                  description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                  type: string
              type: object
```

```yaml
          valueRange:
            additionalProperties: false
            description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              high:
                description: The high limit. The boundary is inclusive
                type: string
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              low:
                description: The low limit. The boundary is inclusive
                type: string
            type: object
          valueReference:
            additionalProperties: false
            description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
            properties:
              _display:
                description: Extensions for display
                type: string
              _reference:
                description: Extensions for reference
                type: string
              _type:
                description: Extensions for type
                type: string
              display:
                description: Plain text narrative that identifies the resource
in addition to the resource reference
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              identifier:
                description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                type: string
              reference:
                description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                type: string
              type:
                description: |-
                  The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                  The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
```

```yaml
          (and can only be used in references in logical models, not resources)
                        type: string
                  type: object
                required:
                  - code
                type: object
            valueUuid:
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                type: string
          type: object
        type: array
      x-ngsi:
        type: Property
    guarantor:
      description: The parties responsible for balancing the account if other
payment options fall short
      items:
        additionalProperties: false
        properties:
          _onHold:
            additionalProperties: false
            description: Extensions for onHold
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          extension:
            description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              additionalProperties: false
              properties:
                _url:
                  description: Extensions for url
                  type: string
                _valueBase64Binary:
                  description: Extensions for valueBase64Binary
                  type: string
                _valueBoolean:
                  description: Extensions for valueBoolean
                  type: string
                _valueCanonical:
                  description: Extensions for valueCanonical
                  type: string
                _valueCode:
                  description: Extensions for valueCode
                  type: string
                _valueDate:
                  description: Extensions for valueDate
                  type: string
                _valueDateTime:
                  description: Extensions for valueDateTime
                  type: string
                _valueDecimal:
                  description: Extensions for valueDecimal
                  type: string
                _valueId:
                  description: Extensions for valueId
                  type: string
                _valueInstant:
                  description: Extensions for valueInstant
                  type: string
                _valueInteger:
                  description: Extensions for valueInteger
                  type: string
                _valueMarkdown:
```

```yaml
                    description: Extensions for valueMarkdown
                    type: string
                _valueOid:
                    description: Extensions for valueOid
                    type: string
                _valuePositiveInt:
                    description: Extensions for valuePositiveInt
                    type: string
                _valueString:
                    description: Extensions for valueString
                    type: string
                _valueTime:
                    description: Extensions for valueTime
                    type: string
                _valueUnsignedInt:
                    description: Extensions for valueUnsignedInt
                    type: string
                _valueUri:
                    description: Extensions for valueUri
                    type: string
                _valueUrl:
                    description: Extensions for valueUrl
                    type: string
                _valueUuid:
                    description: Extensions for valueUuid
                    type: string
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                        type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                url:
                    description: Source of the definition for the extension code - a
logical name or a URL
                    type: string
                valueAddress:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueAge:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueAnnotation:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueAttachment:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueBase64Binary:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                    type: string
                valueBoolean:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^true|false$
                    type: boolean
                valueCanonical:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                valueCode:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                valueCodeableConcept:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueCodeableReference:
                    description: 'Value of extension - must be one of a constrained
```

```yaml
                        set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueCoding:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueContactDetail:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueContactPoint:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueContributor:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueCount:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueDataRequirement:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueDate:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                          type: string
                        valueDateTime:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                          type: string
                        valueDecimal:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                          type: number
                        valueDistance:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueDosage:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueDuration:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueExpression:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueHumanName:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueId:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^[A-Za-z0-9\-\.]{1,64}$
                          type: string
                        valueIdentifier:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                        valueInstant:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                          type: string
                        valueInteger:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^-?([0]|([1-9][0-9]*))$
                          type: number
                        valueMarkdown:
```

```yaml
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    valueMoney:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueOid:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                        type: string
                    valueParameterDefinition:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valuePeriod:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valuePositiveInt:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[1-9][0-9]*$
                        type: number
                    valueQuantity:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueRange:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueRatio:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueRatioRange:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueReference:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueRelatedArtifact:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueSampledData:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueSignature:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueString:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    valueTime:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                        type: string
                    valueTiming:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueTriggerDefinition:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                    valueUnsignedInt:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[0]|([1-9][0-9]*)$
                        type: number
                    valueUri:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^\S*$
```

```yaml
                  type: string
                valueUrl:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUsageContext:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueUuid:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                  type: string
              type: object
            type: array
        id:
          description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        modifierExtension:
          description: |-
            May be used to represent additional information that is not part of
the basic definition of the element and that modifies the understanding of the
element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
            Modifier extensions SHALL NOT change the meaning of any elements on
Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
          items:
            additionalProperties: false
            properties:
              _url:
                description: Extensions for url
                type: string
              _valueBase64Binary:
                description: Extensions for valueBase64Binary
                type: string
              _valueBoolean:
                description: Extensions for valueBoolean
                type: string
              _valueCanonical:
                description: Extensions for valueCanonical
                type: string
              _valueCode:
                description: Extensions for valueCode
                type: string
              _valueDate:
                description: Extensions for valueDate
                type: string
              _valueDateTime:
                description: Extensions for valueDateTime
                type: string
              _valueDecimal:
                description: Extensions for valueDecimal
                type: string
              _valueId:
                description: Extensions for valueId
                type: string
              _valueInstant:
                description: Extensions for valueInstant
                type: string
              _valueInteger:
                description: Extensions for valueInteger
                type: string
              _valueMarkdown:
                description: Extensions for valueMarkdown
                type: string
              _valueOid:
                description: Extensions for valueOid
                type: string
              _valuePositiveInt:
                description: Extensions for valuePositiveInt
                type: string
              _valueString:
                description: Extensions for valueString
                type: string
              _valueTime:
```

```yaml
                  description: Extensions for valueTime
                  type: string
                _valueUnsignedInt:
                  description: Extensions for valueUnsignedInt
                  type: string
                _valueUri:
                  description: Extensions for valueUri
                  type: string
                _valueUrl:
                  description: Extensions for valueUrl
                  type: string
                _valueUuid:
                  description: Extensions for valueUuid
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                url:
                  description: Source of the definition for the extension code - a
logical name or a URL
                  type: string
                valueAddress:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueAge:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueAnnotation:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueAttachment:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueBase64Binary:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                  type: string
                valueBoolean:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^true|false$
                  type: boolean
                valueCanonical:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueCode:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                valueCodeableConcept:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueCodeableReference:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueCoding:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueContactDetail:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  type: string
                valueContactPoint:
                  description: 'Value of extension - must be one of a constrained
```

```yaml
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueContributor:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueCount:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueDataRequirement:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueDate:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                valueDateTime:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                valueDecimal:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                valueDistance:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueDosage:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueDuration:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueExpression:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueHumanName:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueId:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[A-Za-z0-9\-\.]{1,64}$
                    type: string
                valueIdentifier:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueInstant:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                    type: string
                valueInteger:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?([0]|([1-9][0-9]*))$
                    type: number
                valueMarkdown:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                valueMoney:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueOid:
                    description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
```

```yaml
                        type: string
                  valueParameterDefinition:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valuePeriod:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valuePositiveInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[1-9][0-9]*$
                    type: number
                  valueQuantity:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueRange:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueRatio:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueRatioRange:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueReference:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueRelatedArtifact:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueSampledData:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueSignature:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueString:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                    type: string
                  valueTiming:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueTriggerDefinition:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueUnsignedInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[0]|([1-9][0-9]*)$
                    type: number
                  valueUri:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUrl:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUsageContext:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueUuid:
                    description: 'Value of extension - must be one of a constrained
```

```
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                type: string
            type: object
        type: array
      onHold:
        description:
A guarantor may be placed on credit hold or otherwise have their role temporarily
suspended
        pattern: ^true|false$
        type: boolean
      party:
        additionalProperties: false
        description: The entity who is responsible
        properties:
          _display:
            additionalProperties: false
            description: Extensions for display
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _reference:
            additionalProperties: false
            description: Extensions for reference
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _type:
            additionalProperties: false
            description: Extensions for type
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          display:
            description: Plain text narrative that identifies the resource in
addition to the resource reference
            pattern: '^[ \r\n\t\S]+$'
            type: string
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
```

```yaml
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                identifier:
                  additionalProperties: false
                  description: 'An identifier for the target resource. This is used
when there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
                  properties:
                    _system:
                      description: Extensions for system
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    assigner:
                      description: Organization that issued/manages the
identifier
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Time period during which identifier is/was valid
for use
                      type: string
                    system:
                      description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                      type: string
                    type:
                      description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                      type: string
                    use:
                      description: The purpose of this identifier
                      enum:
                        - usual
                        - official
                        - temp
                        - secondary
                        - old
                    value:
                      description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                      type: string
                  type: object
                reference:
                  description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                type:
                  description: |-
                    The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                    The type is the Canonical URL of Resource Definition that is the
```

```yaml
                type this reference refers to. References are URLs that are relative to http://
                hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
                fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
                (and can only be used in references in logical models, not resources)
                        pattern: ^\S*$
                        type: string
                  type: object
              period:
                additionalProperties: false
                description: The timeframe during which the guarantor accepts
responsibility for the account
                properties:
                  _end:
                    additionalProperties: false
                    description: Extensions for end
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _start:
                    additionalProperties: false
                    description: Extensions for start
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  end:
                    description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  start:
                    description: The start of the period. The boundary is inclusive
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                type: object
            required:
              - party
            type: object
        type: array
      x-ngsi:
```

```yaml
      type: Property
  hl7type:
    additionalProperties: false
    description: Categorizes the account for reporting and searching purposes
    properties:
      _text:
        additionalProperties: false
        description: Extensions for text
        properties:
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              additionalProperties: false
              properties:
                _url:
                  description: Extensions for url
                  type: string
                _valueBase64Binary:
                  description: Extensions for valueBase64Binary
                  type: string
                _valueBoolean:
                  description: Extensions for valueBoolean
                  type: string
                _valueCanonical:
                  description: Extensions for valueCanonical
                  type: string
                _valueCode:
                  description: Extensions for valueCode
                  type: string
                _valueDate:
                  description: Extensions for valueDate
                  type: string
                _valueDateTime:
                  description: Extensions for valueDateTime
                  type: string
                _valueDecimal:
                  description: Extensions for valueDecimal
                  type: string
                _valueId:
                  description: Extensions for valueId
                  type: string
                _valueInstant:
                  description: Extensions for valueInstant
                  type: string
                _valueInteger:
                  description: Extensions for valueInteger
                  type: string
                _valueMarkdown:
                  description: Extensions for valueMarkdown
                  type: string
                _valueOid:
                  description: Extensions for valueOid
                  type: string
                _valuePositiveInt:
                  description: Extensions for valuePositiveInt
                  type: string
                _valueString:
                  description: Extensions for valueString
                  type: string
                _valueTime:
                  description: Extensions for valueTime
                  type: string
                _valueUnsignedInt:
                  description: Extensions for valueUnsignedInt
                  type: string
                _valueUri:
                  description: Extensions for valueUri
                  type: string
                _valueUrl:
                  description: Extensions for valueUrl
                  type: string
                _valueUuid:
                  description: Extensions for valueUuid
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

```yaml
                      items:
                        type: string
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  url:
                    description: Source of the definition for the extension code -
a logical name or a URL
                    type: string
                  valueAddress:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueAge:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueAnnotation:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueAttachment:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueBase64Binary:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                    type: string
                  valueBoolean:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^true|false$
                    type: boolean
                  valueCanonical:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^\S*$
                    type: string
                  valueCode:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  valueCodeableConcept:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCodeableReference:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCoding:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContactDetail:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContactPoint:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContributor:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCount:
```

```yaml
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDataRequirement:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDate:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                  valueDateTime:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  valueDecimal:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  valueDistance:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDosage:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDuration:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueExpression:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueHumanName:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueId:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^[A-Za-z0-9\-\.]{1,64}$
                    type: string
                  valueIdentifier:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueInstant:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                    type: string
                  valueInteger:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^-?([0]|([1-9][0-9]*))$
                    type: number
                  valueMarkdown:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
```

```yaml
                    valueMoney:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueOid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                      type: string
                    valueParameterDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valuePeriod:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valuePositiveInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                    valueQuantity:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRatio:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRatioRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRelatedArtifact:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueSampledData:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueSignature:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueString:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueTime:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                      type: string
                    valueTiming:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueTriggerDefinition:
```

```yaml
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueUnsignedInt:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[0]|([1-9][0-9]*)$
                      type: number
                  valueUri:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                  valueUrl:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                  valueUsageContext:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueUuid:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                      type: string
                  type: object
              type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
        type: object
      coding:
        description: A reference to a code defined by a terminology system
        items:
          additionalProperties: false
          properties:
            _code:
              additionalProperties: false
              description: Extensions for code
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
            _display:
              additionalProperties: false
              description: Extensions for display
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
            _system:
              additionalProperties: false
              description: Extensions for system
```

```yaml
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  _userSelected:
                    additionalProperties: false
                    description: Extensions for userSelected
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  _version:
                    additionalProperties: false
                    description: Extensions for version
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  code:
                    description: A symbol in syntax defined by the system. The symbol
may be a predefined code or an expression in a syntax defined by the coding system
(e.g. post-coordination)
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  display:
                    description: 'A representation of the meaning of the code in the
system, following the rules of the system'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  system:
                    description:
The identification of the code system that defines the meaning of the symbol in the
code
                    pattern: ^\S*$
                    type: string
                  userSelected:
                    description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
```

                    pattern: ^true|false$
                    type: boolean
                version:
                    description: 'The version of the code system which was used when
choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                    pattern: '^[\r\n\t\S]+$'
                    type: string
                type: object
            type: array
        extension:
            description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
                additionalProperties: false
                properties:
                    _url:
                        additionalProperties: false
                        description: Extensions for url
                        properties:
                            extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                        type: object
                    _valueBase64Binary:
                        additionalProperties: false
                        description: Extensions for valueBase64Binary
                        properties:
                            extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                        type: object
                    _valueBoolean:
                        additionalProperties: false
                        description: Extensions for valueBoolean
                        properties:
                            extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                        type: object
                    _valueCanonical:
                        additionalProperties: false
                        description: Extensions for valueCanonical
                        properties:
                            extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the

```yaml
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueCode:
                  additionalProperties: false
                  description: Extensions for valueCode
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueDate:
                  additionalProperties: false
                  description: Extensions for valueDate
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueDateTime:
                  additionalProperties: false
                  description: Extensions for valueDateTime
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueDecimal:
                  additionalProperties: false
                  description: Extensions for valueDecimal
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueId:
                  additionalProperties: false
                  description: Extensions for valueId
                  properties:
                    extension:
                      description: 'May be used to represent additional information
```

```yaml
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueInstant:
                    additionalProperties: false
                    description: Extensions for valueInstant
                    properties:
                      extension:
                        description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueInteger:
                    additionalProperties: false
                    description: Extensions for valueInteger
                    properties:
                      extension:
                        description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueMarkdown:
                    additionalProperties: false
                    description: Extensions for valueMarkdown
                    properties:
                      extension:
                        description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueOid:
                    additionalProperties: false
                    description: Extensions for valueOid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valuePositiveInt:
                    additionalProperties: false
```

```yaml
                    description: Extensions for valuePositiveInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueString:
                    additionalProperties: false
                    description: Extensions for valueString
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueTime:
                    additionalProperties: false
                    description: Extensions for valueTime
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueUnsignedInt:
                    additionalProperties: false
                    description: Extensions for valueUnsignedInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueUri:
                    additionalProperties: false
                    description: Extensions for valueUri
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

```yaml
                      type: string
                  type: object
                _valueUrl:
                  additionalProperties: false
                  description: Extensions for valueUrl
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueUuid:
                  additionalProperties: false
                  description: Extensions for valueUuid
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                url:
                  description: Source of the definition for the extension code - a
logical name or a URL
                  pattern: ^\S*$
                  type: string
                valueAddress:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _city:
                      description: Extensions for city
                      type: string
                    _country:
                      description: Extensions for country
                      type: string
                    _district:
                      description: Extensions for district
                      type: string
                    _line:
                      description: Extensions for line
                      items:
                      type: array
                    _postalCode:
                      description: Extensions for postalCode
                      type: string
                    _state:
                      description: Extensions for state
                      type: string
                    _text:
                      description: Extensions for text
                      type: string
                    _type:
```

```yaml
                              description: Extensions for type
                              type: string
                            _use:
                              description: Extensions for use
                              type: string
                            city:
                              description: 'The name of the city, town, suburb, village or
other community or delivery center'
                              type: string
                            country:
                              description: Country - a nation as commonly understood or
generally accepted
                              type: string
                            district:
                              description: The name of the administrative area (county)
                              type: string
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                            line:
                              description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                              items:
                              type: array
                            period:
                              description: Time period when address was/is in use
                              type: string
                            postalCode:
                              description: A postal code designating a region defined by the
postal service
                              type: string
                            state:
                              description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                              type: string
                            text:
                              description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                              type: string
                            type:
                              description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                              enum:
                                - postal
                                - physical
                                - both
                            use:
                              description: The purpose of this address
                              enum:
                                - home
                                - work
                                - temp
                                - old
                                - billing
                          type: object
                        valueAge:
                          additionalProperties: false
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          properties:
                            _code:
                              description: Extensions for code
                              type: string
                            _comparator:
                              description: Extensions for comparator
                              type: string
                            _system:
                              description: Extensions for system
                              type: string
                            _unit:
                              description: Extensions for unit
                              type: string
```

```yaml
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                valueAnnotation:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _authorString:
                      description: Extensions for authorString
                      type: string
                    _text:
                      description: Extensions for text
                      type: string
                    _time:
                      description: Extensions for time
                      type: string
                    authorReference:
                      description: The individual responsible for making the
annotation
                      type: string
                    authorString:
                      description: The individual responsible for making the
annotation
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    text:
                      description: The text of the annotation in markdown format
                      type: string
                    time:
                      description: Indicates when this particular annotation was
made
                      type: string
                  type: object
```

```yaml
            valueAttachment:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _contentType:
                  description: Extensions for contentType
                  type: string
                _creation:
                  description: Extensions for creation
                  type: string
                _data:
                  description: Extensions for data
                  type: string
                _hash:
                  description: Extensions for hash
                  type: string
                _language:
                  description: Extensions for language
                  type: string
                _size:
                  description: Extensions for size
                  type: string
                _title:
                  description: Extensions for title
                  type: string
                _url:
                  description: Extensions for url
                  type: string
                contentType:
                  description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                  type: string
                creation:
                  description: The date that the attachment was first created
                  type: string
                data:
                  description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                hash:
                  description: The calculated hash of the data using SHA-1.
Represented using base64
                  type: string
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                language:
                  description: The human language of the content. The value can
be any valid value according to BCP 47
                  type: string
                size:
                  description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                  type: string
                title:
                  description: A label or set of text to display in place of the
data
                  type: string
                url:
                  description: A location where the data can be accessed
                  type: string
              type: object
            valueBase64Binary:
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
              type: string
            valueBoolean:
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: ^true|false$
              type: boolean
            valueCanonical:
              description: 'Value of extension - must be one of a constrained
```

```
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueCode:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                valueCodeableConcept:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _text:
                      description: Extensions for text
                      type: string
                    coding:
                      description: A reference to a code defined by a terminology
system
                      items:
                      type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    text:
                      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                      type: string
                  type: object
                valueCodeableReference:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    concept:
                      description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    reference:
                      description: A reference to a resource the provides exact
details about the information being referenced
                      type: string
                  type: object
                valueCoding:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _display:
                      description: Extensions for display
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _userSelected:
                      description: Extensions for userSelected
                      type: string
                    _version:
```

                        description: Extensions for version
                        type: string
                    code:
                        description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                        type: string
                    display:
                        description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                        type: string
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    system:
                        description:
The identification of the code system that defines the meaning of the symbol in the
code
                        type: string
                    userSelected:
                        description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                        type: string
                    version:
                        description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                        type: string
                  type: object
              valueContactDetail:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _name:
                        description: Extensions for name
                        type: string
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    name:
                        description: The name of an individual to contact
                        type: string
                    telecom:
                        description: The contact details for the individual (if a name
was provided) or the organization
                        items:
                        type: array
                  type: object
              valueContactPoint:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _rank:
                        description: Extensions for rank
                        type: string
                    _system:
                        description: Extensions for system
                        type: string
                    _use:
                        description: Extensions for use
                        type: string
                    _value:

```yaml
                              description: Extensions for value
                              type: string
                    extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                              type: array
                    id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                    period:
                              description: Time period when the contact point was/is in
use
                              type: string
                    rank:
                              description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                              type: string
                    system:
                              description: Telecommunications form for contact point - what
communications system is required to make use of the contact
                              enum:
                                - phone
                                - fax
                                - email
                                - pager
                                - url
                                - sms
                                - other
                    use:
                              description: Identifies the purpose for the contact point
                              enum:
                                - home
                                - work
                                - temp
                                - old
                                - mobile
                    value:
                              description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                              type: string
                  type: object
              valueContributor:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                    _name:
                              description: Extensions for name
                              type: string
                    _type:
                              description: Extensions for type
                              type: string
                    contact:
                              description: Contact details to assist a user in finding and
communicating with the contributor
                              items:
                              type: array
                    extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                              type: array
                    id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                    name:
                              description: The name of the individual or organization
responsible for the contribution
                              type: string
                    type:
                              description: The type of contributor
                              enum:
                                - author
```

```yaml
                              - editor
                              - reviewer
                              - endorser
                        type: object
                  valueCount:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  valueDataRequirement:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _limit:
                        description: Extensions for limit
                        type: string
                      _mustSupport:
                        description: Extensions for mustSupport
                        items:
                        type: array
                      _type:
                        description: Extensions for type
                        type: string
                      codeFilter:
                        description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                        items:
                        type: array
                      dateFilter:
```

```yaml
                        description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                        items:
                        type: array
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    limit:
                        description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                        type: string
                    mustSupport:
                        description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
                        items:
                        type: array
                    profile:
                        description: 'The profile of the required data, specified as
the uri of the profile definition'
                        items:
                        type: array
                    sort:
                        description: Specifies the order of the results to be
returned
                        items:
                        type: array
                    subjectCodeableConcept:
                        description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                        type: string
                    subjectReference:
                        description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                        type: string
                    type:
                        description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                        type: string
                    type: object
                valueDate:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                valueDateTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                valueDecimal:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                valueDistance:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                    _code:
                        description: Extensions for code
                        type: string
                    _comparator:
                        description: Extensions for comparator
```

```yaml
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                    type: string
                type: object
              valueDosage:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _asNeededBoolean:
                    description: Extensions for asNeededBoolean
                    type: string
                  _patientInstruction:
                    description: Extensions for patientInstruction
                    type: string
                  _sequence:
                    description: Extensions for sequence
                    type: string
                  _text:
                    description: Extensions for text
                    type: string
                  additionalInstruction:
                    description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                    items:
                    type: array
                  asNeededBoolean:
                    description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                    pattern: ^true|false$
                    type: boolean
                  asNeededCodeableConcept:
                    description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                    type: string
                  doseAndRate:
```

```yaml
                  description: The amount of medication administered
                  items:
                    type: array
                extension:
                  description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                  items:
                    type: array
                id:
                  description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                  type: string
                maxDosePerAdministration:
                  description: Upper limit on medication per administration
                  type: string
                maxDosePerLifetime:
                  description: Upper limit on medication per lifetime of the
                    patient
                  type: string
                maxDosePerPeriod:
                  description: Upper limit on medication per unit of time
                  type: string
                method:
                  description: Technique for administering medication
                  type: string
                modifierExtension:
                  description: |-
                    May be used to represent additional information that is not
                    part of the basic definition of the element and that modifies the understanding of
                    the element in which it is contained and/or the understanding of the containing
                    element's descendants. Usually modifier elements provide negation or qualification.
                    To make the use of extensions safe and manageable, there is a strict set of
                    governance applied to the definition and use of extensions. Though any implementer
                    can define an extension, there is a set of requirements that SHALL be met as part
                    of the definition of the extension. Applications processing a resource are required
                    to check for modifier extensions.
                    Modifier extensions SHALL NOT change the meaning of any
                    elements on Resource or DomainResource (including cannot change the meaning of
                    modifierExtension itself)
                  items:
                    type: array
                patientInstruction:
                  description: Instructions in terms that are understood by the
                    patient or consumer
                  type: string
                route:
                  description: How drug should enter body
                  type: string
                sequence:
                  description: Indicates the order in which the dosage
                    instructions should be applied or interpreted
                  type: string
                site:
                  description: Body site to administer to
                  type: string
                text:
                  description: Free text dosage instructions e.g. SIG
                  type: string
                timing:
                  description: When medication should be administered
                  type: string
              type: object
          valueDuration:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
              set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _code:
                description: Extensions for code
                type: string
              _comparator:
                description: Extensions for comparator
                type: string
              _system:
                description: Extensions for system
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
```

```yaml
                        code:
                          description: A computer processable form of the unit in some
unit representation system
                          type: string
                        comparator:
                          description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        system:
                          description:
The identification of the system that provides the coded form of the unit
                          type: string
                        unit:
                          description: A human-readable form of the unit
                          type: string
                        value:
                          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                          type: string
                      type: object
                  valueExpression:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _description:
                        description: Extensions for description
                        type: string
                      _expression:
                        description: Extensions for expression
                        type: string
                      _language:
                        description: Extensions for language
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      description:
                        description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                        type: string
                      expression:
                        description: An expression in the specified language that
returns a value
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      language:
                        description: The media type of the language for the
expression
                        enum:
                          - text/cql
                          - text/fhirpath
```

```yaml
                          - application/x-fhir-query
                          - text/cql-identifier
                          - text/cql-expression
                    name:
                      description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                      type: string
                    reference:
                      description: A URI that defines where the expression is
found
                      type: string
                  type: object
                valueHumanName:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _family:
                      description: Extensions for family
                      type: string
                    _given:
                      description: Extensions for given
                      items:
                      type: array
                    _prefix:
                      description: Extensions for prefix
                      items:
                      type: array
                    _suffix:
                      description: Extensions for suffix
                      items:
                      type: array
                    _text:
                      description: Extensions for text
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    family:
                      description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
                      type: string
                    given:
                      description: Given name
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Indicates the period of time when this name was
valid for the named person
                      type: string
                    prefix:
                      description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                      items:
                      type: array
                    suffix:
                      description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                      items:
                      type: array
                    text:
                      description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                      type: string
                    use:
                      description: Identifies the purpose for this name
                      enum:
                        - usual
                        - official
```

```yaml
                        - temp
                        - nickname
                        - anonymous
                        - old
                        - maiden
                  type: object
              valueId:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[A-Za-z0-9\-\.]{1,64}$
                type: string
              valueIdentifier:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _system:
                    description: Extensions for system
                    type: string
                  _use:
                    description: Extensions for use
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  assigner:
                    description: Organization that issued/manages the
identifier
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  period:
                    description: Time period during which identifier is/was valid
for use
                    type: string
                  system:
                    description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                    type: string
                  type:
                    description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                    type: string
                  use:
                    description: The purpose of this identifier
                    enum:
                      - usual
                      - official
                      - temp
                      - secondary
                      - old
                  value:
                    description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                    type: string
                type: object
              valueInstant:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                type: string
              valueInteger:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^-?([0]|([1-9][0-9]*))$
                type: number
              valueMarkdown:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: '^[ \r\n\t\S]+$'
                type: string
              valueMoney:
                additionalProperties: false
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _currency:
                        description: Extensions for currency
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      currency:
                        description: ISO 4217 Currency Code
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      value:
                        description: Numerical value (with implicit precision)
                        type: string
                    type: object
                  valueOid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                  valueParameterDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _documentation:
                        description: Extensions for documentation
                        type: string
                      _max:
                        description: Extensions for max
                        type: string
                      _min:
                        description: Extensions for min
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      documentation:
                        description: A brief discussion of what the parameter is for
and how it is used by the module
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      max:
                        description: The maximum number of times this element is
permitted to appear in the request or response
                        type: string
                      min:
                        description: The minimum number of times this parameter SHALL
appear in the request or response
                        type: string
                      name:
                        description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                        type: string
```

```yaml
                    profile:
                      description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                      type: string
                    type:
                      description: The type of the parameter
                      type: string
                    use:
                      description: Whether the parameter is input or output for the
module
                      type: string
                  type: object
              valuePeriod:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _end:
                    description: Extensions for end
                    type: string
                  _start:
                    description: Extensions for start
                    type: string
                  end:
                    description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  start:
                    description: The start of the period. The boundary is
inclusive
                    type: string
                  type: object
              valuePositiveInt:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[1-9][0-9]*$
                type: number
              valueQuantity:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
```

```yaml
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          system:
                            description:
The identification of the system that provides the coded form of the unit
                            type: string
                          unit:
                            description: A human-readable form of the unit
                            type: string
                          value:
                            description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                            type: string
                        type: object
                      valueRange:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          high:
                            description: The high limit. The boundary is inclusive
                            type: string
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          low:
                            description: The low limit. The boundary is inclusive
                            type: string
                        type: object
                      valueRatio:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          denominator:
                            description: The value of the denominator
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          numerator:
                            description: The value of the numerator
                            type: string
                        type: object
                      valueRatioRange:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          denominator:
                            description: The value of the denominator
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

```yaml
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                highNumerator:
                  description: The value of the high limit numerator
                  type: string
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                lowNumerator:
                  description: The value of the low limit numerator
                  type: string
            type: object
          valueReference:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _display:
                description: Extensions for display
                type: string
              _reference:
                description: Extensions for reference
                type: string
              _type:
                description: Extensions for type
                type: string
              display:
                description: Plain text narrative that identifies the resource
in addition to the resource reference
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              identifier:
                description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                type: string
              reference:
                description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                type: string
              type:
                description: |-
                  The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                  The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                type: string
            type: object
          valueRelatedArtifact:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _citation:
                description: Extensions for citation
```

```yaml
                        type: string
                    _display:
                      description: Extensions for display
                      type: string
                    _label:
                      description: Extensions for label
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    _url:
                      description: Extensions for url
                      type: string
                    citation:
                      description:
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
                      type: string
                    display:
                      description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
                      type: string
                    document:
                      description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    label:
                      description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
                      type: string
                    resource:
                      description: 'The related resource, such as a library, value
set, profile, or other knowledge resource'
                      type: string
                    type:
                      description: The type of relationship to the related
artifact
                      enum:
                        - documentation
                        - justification
                        - citation
                        - predecessor
                        - successor
                        - derived-from
                        - depends-on
                        - composed-of
                    url:
                      description: A url for the artifact that can be followed to
access the actual content
                      type: string
                  type: object
                valueSampledData:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _data:
                      description: Extensions for data
                      type: string
                    _dimensions:
                      description: Extensions for dimensions
                      type: string
                    _factor:
                      description: Extensions for factor
                      type: string
                    _lowerLimit:
                      description: Extensions for lowerLimit
                      type: string
                    _period:
                      description: Extensions for period
                      type: string
                    _upperLimit:
                      description: Extensions for upperLimit
```

                          type: string
                        data:
                          description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                          type: string
                        dimensions:
                          description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        factor:
                          description:
A correction factor that is applied to the sampled data points before they are
added to the origin
                          type: string
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        lowerLimit:
                          description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                          type: string
                        origin:
                          description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                          type: string
                        period:
                          description: 'The length of time between sampling times,
measured in milliseconds'
                          type: string
                        upperLimit:
                          description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                          type: string
                      required:
                        - origin
                      type: object
                  valueSignature:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _data:
                        description: Extensions for data
                        type: string
                      _sigFormat:
                        description: Extensions for sigFormat
                        type: string
                      _targetFormat:
                        description: Extensions for targetFormat
                        type: string
                      _when:
                        description: Extensions for when
                        type: string
                      data:
                        description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces

```yaml
                            type: string
                    onBehalfOf:
                        description: A reference to an application-usable description
of the identity that is represented by the signature
                        type: string
                    sigFormat:
                        description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                        type: string
                    targetFormat:
                        description:
A mime type that indicates the technical format of the target resources signed by
the signature
                        type: string
                    type:
                        description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                        items:
                        type: array
                    when:
                        description: When the digital signature was signed
                        type: string
                    who:
                        description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                        type: string
                required:
                    - type
                    - who
                type: object
            valueString:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: '^[ \r\n\t\S]+$'
                type: string
            valueTime:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
                type: string
            valueTiming:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                    _event:
                        description: Extensions for event
                        items:
                        type: array
                    code:
                        description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                        type: string
                    event:
                        description: Identifies specific times when the event
occurs
                        items:
                        type: array
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    modifierExtension:
                        description: |-
                            May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
```

element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.
Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself)

```yaml
                items:
                  type: array
                repeat:
                  description: A set of rules that describe when the event is
scheduled
                  type: string
            type: object
          valueTriggerDefinition:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _name:
                description: Extensions for name
                type: string
              _timingDate:
                description: Extensions for timingDate
                type: string
              _timingDateTime:
                description: Extensions for timingDateTime
                type: string
              _type:
                description: Extensions for type
                type: string
              condition:
                description: A boolean-valued expression that is evaluated in
the context of the container of the trigger definition and returns whether or not
the trigger fires
                type: string
              data:
                description: 'The triggering data of the event (if this is a
data trigger). If more than one data is requirement is specified, then all the
data requirements must be true'
                items:
                  type: array
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              name:
                description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
                type: string
              timingDate:
                description: The timing of the event (if this is a periodic
trigger)
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                type: string
              timingDateTime:
                description: The timing of the event (if this is a periodic
trigger)
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                type: string
              timingReference:
                description: The timing of the event (if this is a periodic
trigger)
                type: string
              timingTiming:
                description: The timing of the event (if this is a periodic
trigger)
                type: string
              type:
                description: The type of triggering event
                enum:
```

```yaml
                          - named-event
                          - periodic
                          - data-changed
                          - data-added
                          - data-modified
                          - data-removed
                          - data-accessed
                          - data-access-ended
                    type: object
                valueUnsignedInt:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[0]|([1-9][0-9]*)$
                  type: number
                valueUri:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUrl:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUsageContext:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    code:
                      description: A code that identifies the type of context being
specified by this usage context
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    valueCodeableConcept:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueQuantity:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueRange:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueReference:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                  required:
                    - code
                  type: object
                valueUuid:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                  type: string
              type: object
          type: array
        id:
          description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        text:
          description: A human language representation of the concept as seen/
selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
```

```yaml
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
          x-ngsi:
            type: Property
      id:
        anyOf:
          - description: Identifier format of any NGSI entity
            maxLength: 256
            minLength: 1
            pattern: ^[\w\-\.\{\}\$\+\*\[\]`|~^@!,:\\]+$
            type: string
            x-ngsi:
              type: Property
          - description: Identifier format of any NGSI entity
            format: uri
            type: string
            x-ngsi:
              type: Property
        description: Unique identifier of the entity
        x-ngsi:
          type: Property
      identifier:
        description:
Unique identifier used to reference the account.  Might or might not be intended
for human use (e.g. credit card number)
        items:
          additionalProperties: false
          properties:
            _system:
              additionalProperties: false
              description: Extensions for system
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
            _use:
              additionalProperties: false
              description: Extensions for use
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
            _value:
              additionalProperties: false
              description: Extensions for value
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

```yaml
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                type: object
            assigner:
              additionalProperties: false
              description: Organization that issued/manages the identifier
              properties:
                _display:
                  additionalProperties: false
                  description: Extensions for display
                  properties:
                    extension:
                      description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _reference:
                  additionalProperties: false
                  description: Extensions for reference
                  properties:
                    extension:
                      description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _type:
                  additionalProperties: false
                  description: Extensions for type
                  properties:
                    extension:
                      description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                display:
                  description: Plain text narrative that identifies the resource in
                addition to the resource reference
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                extension:
                  description: 'May be used to represent additional information that
                is not part of the basic definition of the element. To make the use of extensions
                safe and manageable, there is a strict set of governance  applied to the
                definition and use of extensions. Though any implementer can define an extension,
                there is a set of requirements that SHALL be met as part of the definition of the
                extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                identifier:
                  additionalProperties: false
```

```yaml
                    description: 'An identifier for the target resource. This is used
when there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
                    properties:
                      _system:
                        description: Extensions for system
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      assigner:
                        description: Organization that issued/manages the
identifier
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                            type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      period:
                        description: Time period during which identifier is/was valid
for use
                        type: string
                      system:
                        description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                        type: string
                      type:
                        description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                        type: string
                      use:
                        description: The purpose of this identifier
                        enum:
                          - usual
                          - official
                          - temp
                          - secondary
                          - old
                      value:
                        description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                        type: string
                    type: object
                  reference:
                    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  type:
                    description: |-
                      The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                      The type is the Canonical URL of Resource Definition that is the
type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                    pattern: ^\S*$
                    type: string
                type: object
              extension:
                description: 'May be used to represent additional information that is
```

```yaml
        not part of the basic definition of the element. To make the use of extensions
        safe and manageable, there is a strict set of governance  applied to the
        definition and use of extensions. Though any implementer can define an extension,
        there is a set of requirements that SHALL be met as part of the definition of the
        extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    description: Extensions for url
                    type: string
                  _valueBase64Binary:
                    description: Extensions for valueBase64Binary
                    type: string
                  _valueBoolean:
                    description: Extensions for valueBoolean
                    type: string
                  _valueCanonical:
                    description: Extensions for valueCanonical
                    type: string
                  _valueCode:
                    description: Extensions for valueCode
                    type: string
                  _valueDate:
                    description: Extensions for valueDate
                    type: string
                  _valueDateTime:
                    description: Extensions for valueDateTime
                    type: string
                  _valueDecimal:
                    description: Extensions for valueDecimal
                    type: string
                  _valueId:
                    description: Extensions for valueId
                    type: string
                  _valueInstant:
                    description: Extensions for valueInstant
                    type: string
                  _valueInteger:
                    description: Extensions for valueInteger
                    type: string
                  _valueMarkdown:
                    description: Extensions for valueMarkdown
                    type: string
                  _valueOid:
                    description: Extensions for valueOid
                    type: string
                  _valuePositiveInt:
                    description: Extensions for valuePositiveInt
                    type: string
                  _valueString:
                    description: Extensions for valueString
                    type: string
                  _valueTime:
                    description: Extensions for valueTime
                    type: string
                  _valueUnsignedInt:
                    description: Extensions for valueUnsignedInt
                    type: string
                  _valueUri:
                    description: Extensions for valueUri
                    type: string
                  _valueUrl:
                    description: Extensions for valueUrl
                    type: string
                  _valueUuid:
                    description: Extensions for valueUuid
                    type: string
                  extension:
                    description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                    type: string
                  url:
                    description: Source of the definition for the extension code - a
        logical name or a URL
                    type: string
```

```yaml
                      valueAddress:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueAge:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueAnnotation:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueAttachment:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueBase64Binary:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                        type: string
                      valueBoolean:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^true|false$
                        type: boolean
                      valueCanonical:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^\S*$
                        type: string
                      valueCode:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[^\s]+(\s[^\s]+)*$
                        type: string
                      valueCodeableConcept:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueCodeableReference:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueCoding:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueContactDetail:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueContactPoint:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueContributor:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueCount:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueDataRequirement:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        type: string
                      valueDate:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                        type: string
                      valueDateTime:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                        type: string
                      valueDecimal:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                        type: number
```

```yaml
                    valueDistance:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueDosage:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueDuration:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueExpression:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueHumanName:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueId:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[A-Za-z0-9\-\.]{1,64}$
                      type: string
                    valueIdentifier:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueInstant:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                      type: string
                    valueInteger:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^-?([0]|([1-9][0-9]*))$
                      type: number
                    valueMarkdown:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueMoney:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueOid:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                      type: string
                    valueParameterDefinition:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valuePeriod:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valuePositiveInt:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                    valueQuantity:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueRange:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueRatio:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueRatioRange:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueReference:
                      description: 'Value of extension - must be one of a constrained
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                set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueRelatedArtifact:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueSampledData:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueSignature:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueString:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                valueTime:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
        [0-9]+)?$
                    type: string
                valueTiming:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueTriggerDefinition:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueUnsignedInt:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[0]|([1-9][0-9]*)$
                    type: number
                valueUri:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                valueUrl:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                valueUsageContext:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                valueUuid:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
        {4}-[0-9a-f]{12}$
                    type: string
              type: object
            type: array
        id:
          description: Unique id for the element within a resource (for internal
        references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        period:
          additionalProperties: false
          description: Time period during which identifier is/was valid for
        use
          properties:
            _end:
              additionalProperties: false
              description: Extensions for end
              properties:
                extension:
                  description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
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                  internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _start:
                    additionalProperties: false
                    description: Extensions for start
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  end:
                    description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  start:
                    description: The start of the period. The boundary is inclusive
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                type: object
            system:
              description: 'Establishes the namespace for the value - that is, a URL
that describes a set values that are unique'
              pattern: ^\S*$
              type: string
            type:
              additionalProperties: false
              description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
              properties:
                _text:
                  additionalProperties: false
                  description: Extensions for text
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                coding:
                  description: A reference to a code defined by a terminology
system
                  items:
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                type: string
              type: array
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            text:
              description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
        use:
          description: The purpose of this identifier
          enum:
            - usual
            - official
            - temp
            - secondary
            - old
        value:
          description: The portion of the identifier typically relevant to the
user and which is unique within the context of the system
          pattern: '^[ \r\n\t\S]+$'
          type: string
      type: object
    type: array
    x-ngsi:
      type: Property
  implicitRules:
    description: 'A reference to a set of rules that were followed when the
resource was constructed, and which must be understood when processing the
content. Often, this is a reference to an implementation guide that defines the
special rules along with other profiles etc'
    pattern: ^\S*$
    type: string
    x-ngsi:
      type: Property
  language:
    description: The base language in which the resource is written
    pattern: ^[^\s]+(\s[^\s]+)*$
    type: string
    x-ngsi:
      type: Property
  location:
    description: 'Geojson reference to the item. It can be Point, LineString,
Polygon, MultiPoint, MultiLineString or MultiPolygon'
    oneOf:
      - description: Geojson reference to the item. Point
        properties:
          bbox:
            items:
              type: number
            minItems: 4
            type: array
          coordinates:
            items:
              type: number
            minItems: 2
            type: array
          type:
            enum:
              - Point
            type: string
        required:
          - type
          - coordinates
        title: GeoJSON Point
        type: object
        x-ngsi:
          type: GeoProperty
      - description: Geojson reference to the item. LineString
        properties:
          bbox:
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            items:
              type: number
            minItems: 4
            type: array
          coordinates:
            items:
              items:
                type: number
              minItems: 2
              type: array
            minItems: 2
            type: array
          type:
            enum:
              - LineString
            type: string
        required:
          - type
          - coordinates
        title: GeoJSON LineString
        type: object
        x-ngsi:
          type: GeoProperty
    - description: Geojson reference to the item. Polygon
      properties:
        bbox:
          items:
            type: number
          minItems: 4
          type: array
        coordinates:
          items:
            items:
              items:
                type: number
              minItems: 2
              type: array
            minItems: 4
            type: array
          type: array
        type:
          enum:
            - Polygon
          type: string
      required:
        - type
        - coordinates
      title: GeoJSON Polygon
      type: object
      x-ngsi:
        type: GeoProperty
    - description: Geojson reference to the item. MultiPoint
      properties:
        bbox:
          items:
            type: number
          minItems: 4
          type: array
        coordinates:
          items:
            items:
              type: number
            minItems: 2
            type: array
          type: array
        type:
          enum:
            - MultiPoint
          type: string
      required:
        - type
        - coordinates
      title: GeoJSON MultiPoint
      type: object
      x-ngsi:
        type: GeoProperty
    - description: Geojson reference to the item. MultiLineString
      properties:
        bbox:
          items:
            type: number
          minItems: 4
          type: array
        coordinates:
          items:
            items:
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                        items:
                          type: number
                        minItems: 2
                        type: array
                      minItems: 2
                      type: array
                    type: array
                  type:
                    enum:
                      - MultiLineString
                    type: string
                required:
                  - type
                  - coordinates
                title: GeoJSON MultiLineString
                type: object
                x-ngsi:
                  type: GeoProperty
              - description: Geojson reference to the item. MultiLineString
                properties:
                  bbox:
                    items:
                      type: number
                    minItems: 4
                    type: array
                  coordinates:
                    items:
                      items:
                        items:
                          items:
                            type: number
                          minItems: 2
                          type: array
                        minItems: 4
                        type: array
                      type: array
                    type: array
                  type:
                    enum:
                      - MultiPolygon
                    type: string
                required:
                  - type
                  - coordinates
                title: GeoJSON MultiPolygon
                type: object
                x-ngsi:
                  type: GeoProperty
          x-ngsi:
            type: GeoProperty
        meta:
          additionalProperties: false
          description: The metadata about the resource. This is content that is
        maintained by the infrastructure. Changes to the content might not always be
        associated with version changes to the resource
          properties:
            _lastUpdated:
              additionalProperties: false
              description: Extensions for lastUpdated
              properties:
                extension:
                  description: 'May be used to represent additional information that
        is not part of the basic definition of the element. To make the use of extensions
        safe and manageable, there is a strict set of governance  applied to the
        definition and use of extensions. Though any implementer can define an extension,
        there is a set of requirements that SHALL be met as part of the definition of the
        extension'
                  items:
                    additionalProperties: false
                    properties:
                      _url:
                        description: Extensions for url
                        type: string
                      _valueBase64Binary:
                        description: Extensions for valueBase64Binary
                        type: string
                      _valueBoolean:
                        description: Extensions for valueBoolean
                        type: string
                      _valueCanonical:
                        description: Extensions for valueCanonical
                        type: string
                      _valueCode:
                        description: Extensions for valueCode
                        type: string
                      _valueDate:
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                    description: Extensions for valueDate
                    type: string
                  _valueDateTime:
                    description: Extensions for valueDateTime
                    type: string
                  _valueDecimal:
                    description: Extensions for valueDecimal
                    type: string
                  _valueId:
                    description: Extensions for valueId
                    type: string
                  _valueInstant:
                    description: Extensions for valueInstant
                    type: string
                  _valueInteger:
                    description: Extensions for valueInteger
                    type: string
                  _valueMarkdown:
                    description: Extensions for valueMarkdown
                    type: string
                  _valueOid:
                    description: Extensions for valueOid
                    type: string
                  _valuePositiveInt:
                    description: Extensions for valuePositiveInt
                    type: string
                  _valueString:
                    description: Extensions for valueString
                    type: string
                  _valueTime:
                    description: Extensions for valueTime
                    type: string
                  _valueUnsignedInt:
                    description: Extensions for valueUnsignedInt
                    type: string
                  _valueUri:
                    description: Extensions for valueUri
                    type: string
                  _valueUrl:
                    description: Extensions for valueUrl
                    type: string
                  _valueUuid:
                    description: Extensions for valueUuid
                    type: string
                  extension:
                    description: 'May be used to represent additional information
      that is not part of the basic definition of the element. To make the use of
      extensions safe and manageable, there is a strict set of governance  applied to
      the definition and use of extensions. Though any implementer can define an
      extension, there is a set of requirements that SHALL be met as part of the
      definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
      internal references). This may be any string value that does not contain spaces
                    type: string
                  url:
                    description: Source of the definition for the extension code -
      a logical name or a URL
                    type: string
                  valueAddress:
                    description: 'Value of extension - must be one of a
      constrained set of the data types (see [Extensibility](extensibility.html) for a
      list)'
                    type: string
                  valueAge:
                    description: 'Value of extension - must be one of a
      constrained set of the data types (see [Extensibility](extensibility.html) for a
      list)'
                    type: string
                  valueAnnotation:
                    description: 'Value of extension - must be one of a
      constrained set of the data types (see [Extensibility](extensibility.html) for a
      list)'
                    type: string
                  valueAttachment:
                    description: 'Value of extension - must be one of a
      constrained set of the data types (see [Extensibility](extensibility.html) for a
      list)'
                    type: string
                  valueBase64Binary:
                    description: 'Value of extension - must be one of a
      constrained set of the data types (see [Extensibility](extensibility.html) for a
      list)'
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                    pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                    type: string
                  valueBoolean:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^true|false$
                    type: boolean
                  valueCanonical:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^\S*$
                    type: string
                  valueCode:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  valueCodeableConcept:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCodeableReference:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCoding:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContactDetail:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContactPoint:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContributor:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCount:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDataRequirement:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDate:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                  valueDateTime:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  valueDecimal:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  valueDistance:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
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                      valueDosage:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDuration:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueExpression:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueHumanName:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueId:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[A-Za-z0-9\-\.]{1,64}$
                        type: string
                      valueIdentifier:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueInstant:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                        type: string
                      valueInteger:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^-?([0]|([1-9][0-9]*))$
                        type: number
                      valueMarkdown:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      valueMoney:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueOid:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                        type: string
                      valueParameterDefinition:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valuePeriod:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valuePositiveInt:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[1-9][0-9]*$
                        type: number
                      valueQuantity:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueRange:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
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list)'
                        type: string
                valueRatio:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueRatioRange:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueReference:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueRelatedArtifact:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueSampledData:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueSignature:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueString:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                valueTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                        type: string
                valueTiming:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueTriggerDefinition:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueUnsignedInt:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[0]|([1-9][0-9]*)$
                        type: number
                valueUri:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                valueUrl:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                valueUsageContext:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueUuid:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                        type: string
                type: object
```

```yaml
                  type: array
              id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
            type: object
        _source:
          additionalProperties: false
          description: Extensions for source
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    description: Extensions for url
                    type: string
                  _valueBase64Binary:
                    description: Extensions for valueBase64Binary
                    type: string
                  _valueBoolean:
                    description: Extensions for valueBoolean
                    type: string
                  _valueCanonical:
                    description: Extensions for valueCanonical
                    type: string
                  _valueCode:
                    description: Extensions for valueCode
                    type: string
                  _valueDate:
                    description: Extensions for valueDate
                    type: string
                  _valueDateTime:
                    description: Extensions for valueDateTime
                    type: string
                  _valueDecimal:
                    description: Extensions for valueDecimal
                    type: string
                  _valueId:
                    description: Extensions for valueId
                    type: string
                  _valueInstant:
                    description: Extensions for valueInstant
                    type: string
                  _valueInteger:
                    description: Extensions for valueInteger
                    type: string
                  _valueMarkdown:
                    description: Extensions for valueMarkdown
                    type: string
                  _valueOid:
                    description: Extensions for valueOid
                    type: string
                  _valuePositiveInt:
                    description: Extensions for valuePositiveInt
                    type: string
                  _valueString:
                    description: Extensions for valueString
                    type: string
                  _valueTime:
                    description: Extensions for valueTime
                    type: string
                  _valueUnsignedInt:
                    description: Extensions for valueUnsignedInt
                    type: string
                  _valueUri:
                    description: Extensions for valueUri
                    type: string
                  _valueUrl:
                    description: Extensions for valueUrl
                    type: string
                  _valueUuid:
                    description: Extensions for valueUuid
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                              items:
                                type: string
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                              type: string
                            url:
                              description: Source of the definition for the extension code -
                    a logical name or a URL
                              type: string
                            valueAddress:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueAge:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueAnnotation:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueAttachment:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueBase64Binary:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                              type: string
                            valueBoolean:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              pattern: ^true|false$
                              type: boolean
                            valueCanonical:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              pattern: ^\S*$
                              type: string
                            valueCode:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              pattern: ^[^\s]+(\s[^\s]+)*$
                              type: string
                            valueCodeableConcept:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueCodeableReference:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueCoding:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueContactDetail:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueContactPoint:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
                              type: string
                            valueContributor:
                              description: 'Value of extension - must be one of a
                    constrained set of the data types (see [Extensibility](extensibility.html) for a
                    list)'
```

```yaml
                  type: string
              valueCount:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
              valueDataRequirement:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
              valueDate:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                  type: string
              valueDateTime:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                  type: string
              valueDecimal:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                  type: number
              valueDistance:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
              valueDosage:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
              valueDuration:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
              valueExpression:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
              valueHumanName:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
              valueId:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^[A-Za-z0-9\-\.]{1,64}$
                  type: string
              valueIdentifier:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
              valueInstant:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                  type: string
              valueInteger:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^-?([0]|([1-9][0-9]*))$
                  type: number
              valueMarkdown:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```yaml
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueMoney:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueOid:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                  valueParameterDefinition:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valuePeriod:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valuePositiveInt:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^[1-9][0-9]*$
                    type: number
                  valueQuantity:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueRange:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueRatio:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueRatioRange:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueReference:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueRelatedArtifact:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueSampledData:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueSignature:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueString:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueTime:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                    type: string
                  valueTiming:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```
                      type: string
                    valueTriggerDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueUnsignedInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[0]|([1-9][0-9]*)$
                      type: number
                    valueUri:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                    valueUrl:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                    valueUsageContext:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueUuid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                      type: string
                  type: object
                type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
        _versionId:
          additionalProperties: false
          description: Extensions for versionId
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    description: Extensions for url
                    type: string
                  _valueBase64Binary:
                    description: Extensions for valueBase64Binary
                    type: string
                  _valueBoolean:
                    description: Extensions for valueBoolean
                    type: string
                  _valueCanonical:
                    description: Extensions for valueCanonical
                    type: string
                  _valueCode:
                    description: Extensions for valueCode
                    type: string
                  _valueDate:
                    description: Extensions for valueDate
                    type: string
                  _valueDateTime:
                    description: Extensions for valueDateTime
                    type: string
                  _valueDecimal:
                    description: Extensions for valueDecimal
                    type: string
                  _valueId:
                    description: Extensions for valueId
                    type: string
                  _valueInstant:
```

```yaml
                      description: Extensions for valueInstant
                      type: string
                    _valueInteger:
                      description: Extensions for valueInteger
                      type: string
                    _valueMarkdown:
                      description: Extensions for valueMarkdown
                      type: string
                    _valueOid:
                      description: Extensions for valueOid
                      type: string
                    _valuePositiveInt:
                      description: Extensions for valuePositiveInt
                      type: string
                    _valueString:
                      description: Extensions for valueString
                      type: string
                    _valueTime:
                      description: Extensions for valueTime
                      type: string
                    _valueUnsignedInt:
                      description: Extensions for valueUnsignedInt
                      type: string
                    _valueUri:
                      description: Extensions for valueUri
                      type: string
                    _valueUrl:
                      description: Extensions for valueUrl
                      type: string
                    _valueUuid:
                      description: Extensions for valueUuid
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    url:
                      description: Source of the definition for the extension code -
a logical name or a URL
                      type: string
                    valueAddress:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAge:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAnnotation:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAttachment:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueBase64Binary:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                      type: string
                    valueBoolean:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^true|false$
                      type: boolean
                    valueCanonical:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```yaml
                        pattern: ^\S*$
                        type: string
                    valueCode:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[^\s]+(\s[^\s]+)*$
                        type: string
                    valueCodeableConcept:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueCodeableReference:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueCoding:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueContactDetail:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueContactPoint:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueContributor:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueCount:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueDataRequirement:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueDate:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                        type: string
                    valueDateTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                        type: string
                    valueDecimal:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                        type: number
                    valueDistance:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueDosage:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueDuration:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueExpression:
                        description: 'Value of extension - must be one of a
```

```yaml
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valueHumanName:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valueId:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              pattern: ^[A-Za-z0-9\-\.]{1,64}$
                              type: string
                      valueIdentifier:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valueInstant:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
                      (0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
                      [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                              type: string
                      valueInteger:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              pattern: ^-?([0]|([1-9][0-9]*))$
                              type: number
                      valueMarkdown:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              pattern: '^[ \r\n\t\S]+$'
                              type: string
                      valueMoney:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valueOid:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                              type: string
                      valueParameterDefinition:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valuePeriod:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valuePositiveInt:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              pattern: ^[1-9][0-9]*$
                              type: number
                      valueQuantity:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valueRange:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valueRatio:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
                      valueRatioRange:
                              description: 'Value of extension - must be one of a
                      constrained set of the data types (see [Extensibility](extensibility.html) for a
                      list)'
                              type: string
```

```yaml
                    valueReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRelatedArtifact:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueSampledData:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueSignature:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueString:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueTime:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                      type: string
                    valueTiming:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueTriggerDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueUnsignedInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[0]|([1-9][0-9]*)$
                      type: number
                    valueUri:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                    valueUrl:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                    valueUsageContext:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueUuid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                      type: string
                  type: object
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
          type: object
        extension:
          description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
```

```yaml
          there is a set of requirements that SHALL be met as part of the definition of the
        extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    additionalProperties: false
                    description: Extensions for url
                    properties:
                      extension:
                        description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueBase64Binary:
                    additionalProperties: false
                    description: Extensions for valueBase64Binary
                    properties:
                      extension:
                        description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueBoolean:
                    additionalProperties: false
                    description: Extensions for valueBoolean
                    properties:
                      extension:
                        description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueCanonical:
                    additionalProperties: false
                    description: Extensions for valueCanonical
                    properties:
                      extension:
                        description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueCode:
                    additionalProperties: false
                    description: Extensions for valueCode
                    properties:
                      extension:
                        description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
```

```yaml
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                            items:
                              type: array
                          id:
                              description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                    _valueDate:
                      additionalProperties: false
                      description: Extensions for valueDate
                      properties:
                        extension:
                            description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                            items:
                              type: array
                          id:
                              description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                    _valueDateTime:
                      additionalProperties: false
                      description: Extensions for valueDateTime
                      properties:
                        extension:
                            description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                            items:
                              type: array
                          id:
                              description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                    _valueDecimal:
                      additionalProperties: false
                      description: Extensions for valueDecimal
                      properties:
                        extension:
                            description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                            items:
                              type: array
                          id:
                              description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                    _valueId:
                      additionalProperties: false
                      description: Extensions for valueId
                      properties:
                        extension:
                            description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
                      extensions safe and manageable, there is a strict set of governance  applied to
                      the definition and use of extensions. Though any implementer can define an
                      extension, there is a set of requirements that SHALL be met as part of the
                      definition of the extension'
                            items:
                              type: array
                          id:
                              description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                              type: string
                          type: object
                    _valueInstant:
                      additionalProperties: false
                      description: Extensions for valueInstant
                      properties:
                        extension:
```

```yaml
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueInteger:
                    additionalProperties: false
                    description: Extensions for valueInteger
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueMarkdown:
                    additionalProperties: false
                    description: Extensions for valueMarkdown
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueOid:
                    additionalProperties: false
                    description: Extensions for valueOid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valuePositiveInt:
                    additionalProperties: false
                    description: Extensions for valuePositiveInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueString:
```

```yaml
                        additionalProperties: false
                        description: Extensions for valueString
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _valueTime:
                        additionalProperties: false
                        description: Extensions for valueTime
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _valueUnsignedInt:
                        additionalProperties: false
                        description: Extensions for valueUnsignedInt
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _valueUri:
                        additionalProperties: false
                        description: Extensions for valueUri
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _valueUrl:
                        additionalProperties: false
                        description: Extensions for valueUrl
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
```

```yaml
                    internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _valueUuid:
                    additionalProperties: false
                    description: Extensions for valueUuid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  url:
                    description: Source of the definition for the extension code - a
logical name or a URL
                    pattern: ^\S*$
                    type: string
                  valueAddress:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _city:
                        description: Extensions for city
                        type: string
                      _country:
                        description: Extensions for country
                        type: string
                      _district:
                        description: Extensions for district
                        type: string
                      _line:
                        description: Extensions for line
                        items:
                        type: array
                      _postalCode:
                        description: Extensions for postalCode
                        type: string
                      _state:
                        description: Extensions for state
                        type: string
                      _text:
                        description: Extensions for text
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      city:
                        description: 'The name of the city, town, suburb, village or
other community or delivery center'
                        type: string
                      country:
                        description: Country - a nation as commonly understood or
generally accepted
                        type: string
                      district:
                        description: The name of the administrative area (county)
                        type: string
                      extension:
```

```yaml
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        line:
                          description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                          items:
                          type: array
                        period:
                          description: Time period when address was/is in use
                          type: string
                        postalCode:
                          description: A postal code designating a region defined by the
postal service
                          type: string
                        state:
                          description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                          type: string
                        text:
                          description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                          type: string
                        type:
                          description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                          enum:
                            - postal
                            - physical
                            - both
                        use:
                          description: The purpose of this address
                          enum:
                            - home
                            - work
                            - temp
                            - old
                            - billing
                    type: object
                  valueAge:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
```

```yaml
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        system:
                          description:
The identification of the system that provides the coded form of the unit
                          type: string
                        unit:
                          description: A human-readable form of the unit
                          type: string
                        value:
                          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                          type: string
                      type: object
                    valueAnnotation:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _authorString:
                          description: Extensions for authorString
                          type: string
                        _text:
                          description: Extensions for text
                          type: string
                        _time:
                          description: Extensions for time
                          type: string
                        authorReference:
                          description: The individual responsible for making the
annotation
                          type: string
                        authorString:
                          description: The individual responsible for making the
annotation
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        text:
                          description: The text of the annotation in markdown format
                          type: string
                        time:
                          description: Indicates when this particular annotation was
made
                          type: string
                      type: object
                    valueAttachment:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _contentType:
                          description: Extensions for contentType
                          type: string
                        _creation:
                          description: Extensions for creation
                          type: string
                        _data:
                          description: Extensions for data
                          type: string
                        _hash:
                          description: Extensions for hash
                          type: string
```

```yaml
                _language:
                  description: Extensions for language
                  type: string
                _size:
                  description: Extensions for size
                  type: string
                _title:
                  description: Extensions for title
                  type: string
                _url:
                  description: Extensions for url
                  type: string
                contentType:
                  description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                  type: string
                creation:
                  description: The date that the attachment was first created
                  type: string
                data:
                  description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                hash:
                  description: The calculated hash of the data using SHA-1.
Represented using base64
                  type: string
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                language:
                  description: The human language of the content. The value can
be any valid value according to BCP 47
                  type: string
                size:
                  description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                  type: string
                title:
                  description: A label or set of text to display in place of the
data
                  type: string
                url:
                  description: A location where the data can be accessed
                  type: string
              type: object
            valueBase64Binary:
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
              type: string
            valueBoolean:
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: ^true|false$
              type: boolean
            valueCanonical:
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: ^\S*$
              type: string
            valueCode:
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: ^[^\s]+(\s[^\s]+)*$
              type: string
            valueCodeableConcept:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _text:
                  description: Extensions for text
                  type: string
                coding:
```

```yaml
                            description: A reference to a code defined by a terminology
system
                          items:
                            type: array
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        text:
                          description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                          type: string
                      type: object
                    valueCodeableReference:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        concept:
                          description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        reference:
                          description: A reference to a resource the provides exact
details about the information being referenced
                          type: string
                      type: object
                    valueCoding:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _display:
                          description: Extensions for display
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _userSelected:
                          description: Extensions for userSelected
                          type: string
                        _version:
                          description: Extensions for version
                          type: string
                        code:
                          description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                          type: string
                        display:
                          description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```
                definition of the extension'
                              items:
                              type: array
                          id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          system:
                              description:
The identification of the code system that defines the meaning of the symbol in the
code
                              type: string
                          userSelected:
                              description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                              type: string
                          version:
                              description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                              type: string
                      type: object
                  valueContactDetail:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      name:
                        description: The name of an individual to contact
                        type: string
                      telecom:
                        description: The contact details for the individual (if a name
was provided) or the organization
                        items:
                        type: array
                    type: object
                  valueContactPoint:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _rank:
                        description: Extensions for rank
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      period:
                        description: Time period when the contact point was/is in
```

```yaml
                    use
                            type: string
                        rank:
                            description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                            type: string
                        system:
                            description: Telecommunications form for contact point - what
communications system is required to make use of the contact
                            enum:
                                - phone
                                - fax
                                - email
                                - pager
                                - url
                                - sms
                                - other
                        use:
                          description: Identifies the purpose for the contact point
                          enum:
                                - home
                                - work
                                - temp
                                - old
                                - mobile
                        value:
                            description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                            type: string
                      type: object
                  valueContributor:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _name:
                          description: Extensions for name
                          type: string
                        _type:
                          description: Extensions for type
                          type: string
                        contact:
                            description: Contact details to assist a user in finding and
communicating with the contributor
                            items:
                            type: array
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        name:
                            description: The name of the individual or organization
responsible for the contribution
                            type: string
                        type:
                          description: The type of contributor
                          enum:
                                - author
                                - editor
                                - reviewer
                                - endorser
                      type: object
                  valueCount:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
```

```yaml
                          type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                valueDataRequirement:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _limit:
                      description: Extensions for limit
                      type: string
                    _mustSupport:
                      description: Extensions for mustSupport
                      items:
                      type: array
                    _type:
                      description: Extensions for type
                      type: string
                    codeFilter:
                      description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                      items:
                      type: array
                    dateFilter:
                      description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                      items:
                      type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
```

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internal references). This may be any string value that does not contain spaces
                          type: string
                      limit:
                          description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                          type: string
                      mustSupport:
                          description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
                          items:
                          type: array
                      profile:
                          description: 'The profile of the required data, specified as
the uri of the profile definition'
                          items:
                          type: array
                      sort:
                          description: Specifies the order of the results to be
returned
                          items:
                          type: array
                      subjectCodeableConcept:
                          description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                          type: string
                      subjectReference:
                          description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                          type: string
                      type:
                          description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                          type: string
                    type: object
                valueDate:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                valueDateTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                valueDecimal:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                valueDistance:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
```

```
                due to measurement issues; e.g. if the comparator is < , then the real value is <
                stated value'
                            enum:
                              - <
                              - <=
                              - '>='
                              - >
                        extension:
                            description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                            type: string
                        system:
                            description:
                The identification of the system that provides the coded form of the unit
                            type: string
                        unit:
                            description: A human-readable form of the unit
                            type: string
                        value:
                            description: The value of the measured amount. The value
                includes an implicit precision in the presentation of the value
                            type: string
                    type: object
                  valueDosage:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
                set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          _asNeededBoolean:
                            description: Extensions for asNeededBoolean
                            type: string
                          _patientInstruction:
                            description: Extensions for patientInstruction
                            type: string
                          _sequence:
                            description: Extensions for sequence
                            type: string
                          _text:
                            description: Extensions for text
                            type: string
                        additionalInstruction:
                            description:
                Supplemental instructions to the patient on how to take the medication  (e.g. with
                meals ortake half to one hour before food) or warnings for the patient about the
                medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
                or sunlamps)
                            items:
                            type: array
                        asNeededBoolean:
                            description: 'Indicates whether the Medication is only taken
                when needed within a specific dosing schedule (Boolean option), or it indicates
                the precondition for taking the Medication (CodeableConcept)'
                            pattern: ^true|false$
                            type: boolean
                        asNeededCodeableConcept:
                            description: 'Indicates whether the Medication is only taken
                when needed within a specific dosing schedule (Boolean option), or it indicates
                the precondition for taking the Medication (CodeableConcept)'
                            type: string
                        doseAndRate:
                            description: The amount of medication administered
                            items:
                            type: array
                        extension:
                            description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                            type: string
                        maxDosePerAdministration:
```

```yaml
                        description: Upper limit on medication per administration
                        type: string
                      maxDosePerLifetime:
                        description: Upper limit on medication per lifetime of the
patient
                        type: string
                      maxDosePerPeriod:
                        description: Upper limit on medication per unit of time
                        type: string
                      method:
                        description: Technique for administering medication
                        type: string
                      modifierExtension:
                        description: |-
                          May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                          Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                        items:
                        type: array
                      patientInstruction:
                        description: Instructions in terms that are understood by the
patient or consumer
                        type: string
                      route:
                        description: How drug should enter body
                        type: string
                      sequence:
                        description: Indicates the order in which the dosage
instructions should be applied or interpreted
                        type: string
                      site:
                        description: Body site to administer to
                        type: string
                      text:
                        description: Free text dosage instructions e.g. SIG
                        type: string
                      timing:
                        description: When medication should be administered
                        type: string
                  type: object
                valueDuration:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

```yaml
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                valueExpression:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _description:
                      description: Extensions for description
                      type: string
                    _expression:
                      description: Extensions for expression
                      type: string
                    _language:
                      description: Extensions for language
                      type: string
                    _name:
                      description: Extensions for name
                      type: string
                    _reference:
                      description: Extensions for reference
                      type: string
                    description:
                      description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                      type: string
                    expression:
                      description: An expression in the specified language that
returns a value
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    language:
                      description: The media type of the language for the
expression
                      enum:
                        - text/cql
                        - text/fhirpath
                        - application/x-fhir-query
                        - text/cql-identifier
                        - text/cql-expression
                    name:
                      description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                      type: string
                    reference:
                      description: A URI that defines where the expression is
found
                      type: string
                  type: object
                valueHumanName:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
```

```yaml
                  _family:
                    description: Extensions for family
                    type: string
                  _given:
                    description: Extensions for given
                    items:
                    type: array
                  _prefix:
                    description: Extensions for prefix
                    items:
                    type: array
                  _suffix:
                    description: Extensions for suffix
                    items:
                    type: array
                  _text:
                    description: Extensions for text
                    type: string
                  _use:
                    description: Extensions for use
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  family:
                    description: >-
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
                    type: string
                  given:
                    description: Given name
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  period:
                    description: Indicates the period of time when this name was
valid for the named person
                    type: string
                  prefix:
                    description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                    items:
                    type: array
                  suffix:
                    description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                    items:
                    type: array
                  text:
                    description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                    type: string
                  use:
                    description: Identifies the purpose for this name
                    enum:
                      - usual
                      - official
                      - temp
                      - nickname
                      - anonymous
                      - old
                      - maiden
                type: object
              valueId:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[A-Za-z0-9\-\.]{1,64}$
                type: string
              valueIdentifier:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _system:
```

```yaml
                    description: Extensions for system
                    type: string
                  _use:
                    description: Extensions for use
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  assigner:
                    description: Organization that issued/manages the
identifier
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  period:
                    description: Time period during which identifier is/was valid
for use
                    type: string
                  system:
                    description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                    type: string
                  type:
                    description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                    type: string
                  use:
                    description: The purpose of this identifier
                    enum:
                      - usual
                      - official
                      - temp
                      - secondary
                      - old
                  value:
                    description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                    type: string
                type: object
            valueInstant:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                type: string
            valueInteger:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^-?([0]|([1-9][0-9]*))$
                type: number
            valueMarkdown:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: '^[ \r\n\t\S]+$'
                type: string
            valueMoney:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _currency:
                    description: Extensions for currency
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  currency:
                    description: ISO 4217 Currency Code
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
                  extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                          type: string
                        value:
                          description: Numerical value (with implicit precision)
                          type: string
                      type: object
                  valueOid:
                    description: 'Value of extension - must be one of a constrained
          set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                  valueParameterDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
          set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _documentation:
                        description: Extensions for documentation
                        type: string
                      _max:
                        description: Extensions for max
                        type: string
                      _min:
                        description: Extensions for min
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      documentation:
                        description: A brief discussion of what the parameter is for
          and how it is used by the module
                        type: string
                      extension:
                        description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                          type: string
                        max:
                          description: The maximum number of times this element is
          permitted to appear in the request or response
                          type: string
                        min:
                          description: The minimum number of times this parameter SHALL
          appear in the request or response
                          type: string
                        name:
                          description: The name of the parameter used to allow access to
          the value of the parameter in evaluation contexts
                          type: string
                        profile:
                          description: 'If specified, this indicates a profile that the
          input data must conform to, or that the output data will conform to'
                          type: string
                        type:
                          description: The type of the parameter
                          type: string
                        use:
                          description: Whether the parameter is input or output for the
          module
                          type: string
                      type: object
                  valuePeriod:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
          set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
```

```yaml
              _end:
                description: Extensions for end
                type: string
              _start:
                description: Extensions for start
                type: string
              end:
                description: 'The end of the period. If the end of the period
  is missing, it means no end was known or planned at the time the instance was
  created. The start may be in the past, and the end date in the future, which means
  that period is expected/planned to end at that time'
                type: string
              extension:
                description: 'May be used to represent additional information
  that is not part of the basic definition of the element. To make the use of
  extensions safe and manageable, there is a strict set of governance  applied to
  the definition and use of extensions. Though any implementer can define an
  extension, there is a set of requirements that SHALL be met as part of the
  definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
  internal references). This may be any string value that does not contain spaces
                type: string
              start:
                description: The start of the period. The boundary is
  inclusive
                type: string
            type: object
          valuePositiveInt:
            description: 'Value of extension - must be one of a constrained
  set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^[1-9][0-9]*$
            type: number
          valueQuantity:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
  set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _code:
                description: Extensions for code
                type: string
              _comparator:
                description: Extensions for comparator
                type: string
              _system:
                description: Extensions for system
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
              code:
                description: A computer processable form of the unit in some
  unit representation system
                type: string
              comparator:
                description: 'How the value should be understood and
  represented - whether the actual value is greater or less than the stated value
  due to measurement issues; e.g. if the comparator is < , then the real value is <
  stated value'
                enum:
                  - <
                  - <=
                  - '>='
                  - >
              extension:
                description: 'May be used to represent additional information
  that is not part of the basic definition of the element. To make the use of
  extensions safe and manageable, there is a strict set of governance  applied to
  the definition and use of extensions. Though any implementer can define an
  extension, there is a set of requirements that SHALL be met as part of the
  definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
  internal references). This may be any string value that does not contain spaces
                type: string
              system:
                description:
  The identification of the system that provides the coded form of the unit
                type: string
```

```yaml
                          unit:
                            description: A human-readable form of the unit
                            type: string
                          value:
                            description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                            type: string
                        type: object
                    valueRange:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        high:
                          description: The high limit. The boundary is inclusive
                          type: string
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        low:
                          description: The low limit. The boundary is inclusive
                          type: string
                      type: object
                    valueRatio:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        denominator:
                          description: The value of the denominator
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        numerator:
                          description: The value of the numerator
                          type: string
                      type: object
                    valueRatioRange:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        denominator:
                          description: The value of the denominator
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        highNumerator:
                          description: The value of the high limit numerator
                          type: string
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        lowNumerator:
                          description: The value of the low limit numerator
                          type: string
                      type: object
```

```yaml
          valueReference:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _display:
                description: Extensions for display
                type: string
              _reference:
                description: Extensions for reference
                type: string
              _type:
                description: Extensions for type
                type: string
              display:
                description: Plain text narrative that identifies the resource
in addition to the resource reference
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              identifier:
                description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                type: string
              reference:
                description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                type: string
              type:
                description: |-
                  The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                  The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                type: string
            type: object
          valueRelatedArtifact:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _citation:
                description: Extensions for citation
                type: string
              _display:
                description: Extensions for display
                type: string
              _label:
                description: Extensions for label
                type: string
              _type:
                description: Extensions for type
                type: string
              _url:
                description: Extensions for url
                type: string
              citation:
                description:
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
```

```yaml
                            type: string
                        display:
                            description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
                            type: string
                        document:
                            description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
                            type: string
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        label:
                            description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
                            type: string
                        resource:
                            description: 'The related resource, such as a library, value
set, profile, or other knowledge resource'
                            type: string
                        type:
                            description: The type of relationship to the related
artifact
                            enum:
                                - documentation
                                - justification
                                - citation
                                - predecessor
                                - successor
                                - derived-from
                                - depends-on
                                - composed-of
                        url:
                            description: A url for the artifact that can be followed to
access the actual content
                            type: string
                    type: object
                valueSampledData:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                        _data:
                            description: Extensions for data
                            type: string
                        _dimensions:
                            description: Extensions for dimensions
                            type: string
                        _factor:
                            description: Extensions for factor
                            type: string
                        _lowerLimit:
                            description: Extensions for lowerLimit
                            type: string
                        _period:
                            description: Extensions for period
                            type: string
                        _upperLimit:
                            description: Extensions for upperLimit
                            type: string
                        data:
                            description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                            type: string
                        dimensions:
                            description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                            type: string
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                          items:
                            type: array
                        factor:
                          description:
                A correction factor that is applied to the sampled data points before they are
                added to the origin
                          type: string
                        id:
                          description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                          type: string
                        lowerLimit:
                          description: The lower limit of detection of the measured
                points. This is needed if any of the data points have the value L (lower than
                detection limit)
                          type: string
                        origin:
                          description: 'The base quantity that a measured value of zero
                represents. In addition, this provides the units of the entire measurement
                series'
                          type: string
                        period:
                          description: 'The length of time between sampling times,
                measured in milliseconds'
                          type: string
                        upperLimit:
                          description: The upper limit of detection of the measured
                points. This is needed if any of the data points have the value U (higher than
                detection limit)
                          type: string
                      required:
                        - origin
                      type: object
                  valueSignature:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
                set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _data:
                        description: Extensions for data
                        type: string
                      _sigFormat:
                        description: Extensions for sigFormat
                        type: string
                      _targetFormat:
                        description: Extensions for targetFormat
                        type: string
                      _when:
                        description: Extensions for when
                        type: string
                      data:
                        description:
                The base64 encoding of the Signature content. When signature is not recorded
                electronically this element would be empty
                        type: string
                      extension:
                        description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                          type: string
                        onBehalfOf:
                          description: A reference to an application-usable description
                of the identity that is represented by the signature
                          type: string
                        sigFormat:
                          description: 'A mime type that indicates the technical format
                of the signature. Important mime types are application/signature+xml for X ML
                DigSig, application/jose for JWS, and image/* for a graphical image of a
                signature, etc'
                          type: string
                        targetFormat:
                          description:
                A mime type that indicates the technical format of the target resources signed by
                the signature
                          type: string
                        type:
```

```yaml
                    description: >-
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                    items:
                    type: array
                when:
                    description: When the digital signature was signed
                    type: string
                who:
                    description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                    type: string
                required:
                - type
                - who
                type: object
            valueString:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: '^[ \r\n\t\S]+$'
                type: string
            valueTime:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
                type: string
            valueTiming:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _event:
                    description: Extensions for event
                    items:
                    type: array
                  code:
                    description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                    type: string
                  event:
                    description: Identifies specific times when the event
occurs
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  modifierExtension:
                    description: |-
                      May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                      Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                    items:
                    type: array
                  repeat:
                    description: A set of rules that describe when the event is
scheduled
                    type: string
                type: object
            valueTriggerDefinition:
```

```yaml
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      _timingDate:
                        description: Extensions for timingDate
                        type: string
                      _timingDateTime:
                        description: Extensions for timingDateTime
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      condition:
                        description: A boolean-valued expression that is evaluated in
        the context of the container of the trigger definition and returns whether or not
        the trigger fires
                        type: string
                      data:
                        description: 'The triggering data of the event (if this is a
        data trigger). If more than one data is requirement is specified, then all the
        data requirements must be true'
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                        type: string
                      name:
                        description: 'A formal name for the event. This may be an
        absolute URI that identifies the event formally (e.g. from a trigger registry), or
        a simple relative URI that identifies the event in a local context'
                        type: string
                      timingDate:
                        description: The timing of the event (if this is a periodic
        trigger)
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
        (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                        type: string
                      timingDateTime:
                        description: The timing of the event (if this is a periodic
        trigger)
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
        (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
        [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                        type: string
                      timingReference:
                        description: The timing of the event (if this is a periodic
        trigger)
                        type: string
                      timingTiming:
                        description: The timing of the event (if this is a periodic
        trigger)
                        type: string
                      type:
                        description: The type of triggering event
                        enum:
                          - named-event
                          - periodic
                          - data-changed
                          - data-added
                          - data-modified
                          - data-removed
                          - data-accessed
                          - data-access-ended
                    type: object
                  valueUnsignedInt:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[0]|([1-9][0-9]*)$
                    type: number
                  valueUri:
                    description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```
                    pattern: ^\S*$
                    type: string
                  valueUrl:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUsageContext:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      code:
                        description: A code that identifies the type of context being
specified by this usage context
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      valueCodeableConcept:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                      valueQuantity:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                      valueRange:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                      valueReference:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                    required:
                      - code
                    type: object
                  valueUuid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                    type: string
                type: object
              type: array
          id:
            description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          lastUpdated:
            description: When the resource last changed - e.g. when the version
changed
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-(0[1-9]|
1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
            type: string
          profile:
            description: 'A list of profiles (references to
[[[StructureDefinition]]] resources) that this resource claims to conform to. The
URL is a reference to [[[StructureDefinition.url]]]'
            items:
              pattern: ^\S*$
              type: string
            type: array
          security:
            description:
Security labels applied to this resource. These tags connect specific resources to
the overall security policy and infrastructure
            items:
              additionalProperties: false
```

```yaml
              properties:
                _code:
                  additionalProperties: false
                  description: Extensions for code
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _display:
                  additionalProperties: false
                  description: Extensions for display
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _system:
                  additionalProperties: false
                  description: Extensions for system
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _userSelected:
                  additionalProperties: false
                  description: Extensions for userSelected
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _version:
                  additionalProperties: false
                  description: Extensions for version
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
```

```yaml
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                code:
                    description: A symbol in syntax defined by the system. The symbol
may be a predefined code or an expression in a syntax defined by the coding system
(e.g. post-coordination)
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                display:
                    description: 'A representation of the meaning of the code in the
system, following the rules of the system'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                       type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                system:
                    description:
The identification of the code system that defines the meaning of the symbol in the
code
                    pattern: ^\S*$
                    type: string
                userSelected:
                    description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                    pattern: ^true|false$
                    type: boolean
                version:
                    description: 'The version of the code system which was used when
choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
            type: object
        type: array
    source:
        description: 'A uri that identifies the source system of the resource.
This provides a minimal amount of [[[Provenance]]] information that can be used to
track or differentiate the source of information in the resource. The source may
identify another FHIR server, document, message, database, etc'
        pattern: ^\S*$
        type: string
    tag:
        description: 'Tags applied to this resource. Tags are intended to be
used to identify and relate resources to process and workflow, and applications
are not required to consider the tags when interpreting the meaning of a
resource'
        items:
            additionalProperties: false
            properties:
              _code:
                additionalProperties: false
                description: Extensions for code
                properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                type: object
              _display:
```

```yaml
                            additionalProperties: false
                            description: Extensions for display
                            properties:
                              extension:
                                description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                                items:
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                            type: object
                          _system:
                            additionalProperties: false
                            description: Extensions for system
                            properties:
                              extension:
                                description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                                items:
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                            type: object
                          _userSelected:
                            additionalProperties: false
                            description: Extensions for userSelected
                            properties:
                              extension:
                                description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                                items:
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                            type: object
                          _version:
                            additionalProperties: false
                            description: Extensions for version
                            properties:
                              extension:
                                description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                                items:
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                                type: string
                            type: object
                          code:
                            description: A symbol in syntax defined by the system. The symbol
                    may be a predefined code or an expression in a syntax defined by the coding system
                    (e.g. post-coordination)
                            pattern: ^[^\s]+(\s[^\s]+)*$
                            type: string
                          display:
                            description: 'A representation of the meaning of the code in the
                    system, following the rules of the system'
                            pattern: '^[ \r\n\t\S]+$'
                            type: string
                          extension:
                            description: 'May be used to represent additional information that
                    is not part of the basic definition of the element. To make the use of extensions
                    safe and manageable, there is a strict set of governance  applied to the
```

```yaml
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              system:
                description:
The identification of the code system that defines the meaning of the symbol in the
code
                pattern: ^\S*$
                type: string
              userSelected:
                description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                pattern: ^true|false$
                type: boolean
              version:
                description: 'The version of the code system which was used when
choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          type: array
        versionId:
          description: 'The version specific identifier, as it appears in the
version portion of the URL. This value changes when the resource is created,
updated, or deleted'
          pattern: ^[A-Za-z0-9\-\.]{1,64}$
          type: string
      type: object
      x-ngsi:
        type: Property
    modifierExtension:
      description: |-
        May be used to represent additional information that is not part of the
basic definition of the resource and that modifies the understanding of the element
that contains it and/or the understanding of the containing elements descendants.
Usually modifier elements provide negation or qualification. To make the use of
extensions safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer is allowed to define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension. Applications processing a resource are required to
check for modifier extensions.
        Modifier extensions SHALL NOT change the meaning of any elements on
Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
      items:
        additionalProperties: false
        properties:
          _url:
            additionalProperties: false
            description: Extensions for url
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _valueBase64Binary:
            additionalProperties: false
            description: Extensions for valueBase64Binary
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
```

```yaml
                  definition and use of extensions. Though any implementer can define an extension,
                  there is a set of requirements that SHALL be met as part of the definition of the
                  extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
              _valueBoolean:
                  additionalProperties: false
                  description: Extensions for valueBoolean
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
              _valueCanonical:
                  additionalProperties: false
                  description: Extensions for valueCanonical
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
              _valueCode:
                  additionalProperties: false
                  description: Extensions for valueCode
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
              _valueDate:
                  additionalProperties: false
                  description: Extensions for valueDate
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
                        type: string
                      type: array
```

```yaml
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                type: object
            _valueDateTime:
              additionalProperties: false
              description: Extensions for valueDateTime
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
              type: object
            _valueDecimal:
              additionalProperties: false
              description: Extensions for valueDecimal
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
              type: object
            _valueId:
              additionalProperties: false
              description: Extensions for valueId
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
              type: object
            _valueInstant:
              additionalProperties: false
              description: Extensions for valueInstant
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
              type: object
```

```yaml
      _valueInteger:
        additionalProperties: false
        description: Extensions for valueInteger
        properties:
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
        type: object
      _valueMarkdown:
        additionalProperties: false
        description: Extensions for valueMarkdown
        properties:
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
        type: object
      _valueOid:
        additionalProperties: false
        description: Extensions for valueOid
        properties:
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
        type: object
      _valuePositiveInt:
        additionalProperties: false
        description: Extensions for valuePositiveInt
        properties:
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
        type: object
      _valueString:
        additionalProperties: false
        description: Extensions for valueString
        properties:
          extension:
            description: 'May be used to represent additional information that
```

```yaml
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _valueTime:
                  additionalProperties: false
                  description: Extensions for valueTime
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _valueUnsignedInt:
                  additionalProperties: false
                  description: Extensions for valueUnsignedInt
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _valueUri:
                  additionalProperties: false
                  description: Extensions for valueUri
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _valueUrl:
                  additionalProperties: false
                  description: Extensions for valueUrl
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
          is not part of the basic definition of the element. To make the use of extensions
          safe and manageable, there is a strict set of governance  applied to the
          definition and use of extensions. Though any implementer can define an extension,
          there is a set of requirements that SHALL be met as part of the definition of the
          extension'
                      items:
```

```yaml
                      type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
            _valueUuid:
              additionalProperties: false
              description: Extensions for valueUuid
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
          extension:
            description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              additionalProperties: false
              properties:
                _url:
                  description: Extensions for url
                  type: string
                _valueBase64Binary:
                  description: Extensions for valueBase64Binary
                  type: string
                _valueBoolean:
                  description: Extensions for valueBoolean
                  type: string
                _valueCanonical:
                  description: Extensions for valueCanonical
                  type: string
                _valueCode:
                  description: Extensions for valueCode
                  type: string
                _valueDate:
                  description: Extensions for valueDate
                  type: string
                _valueDateTime:
                  description: Extensions for valueDateTime
                  type: string
                _valueDecimal:
                  description: Extensions for valueDecimal
                  type: string
                _valueId:
                  description: Extensions for valueId
                  type: string
                _valueInstant:
                  description: Extensions for valueInstant
                  type: string
                _valueInteger:
                  description: Extensions for valueInteger
                  type: string
                _valueMarkdown:
                  description: Extensions for valueMarkdown
                  type: string
                _valueOid:
                  description: Extensions for valueOid
                  type: string
                _valuePositiveInt:
                  description: Extensions for valuePositiveInt
                  type: string
                _valueString:
                  description: Extensions for valueString
                  type: string
                _valueTime:
                  description: Extensions for valueTime
                  type: string
```

```yaml
                    _valueUnsignedInt:
                      description: Extensions for valueUnsignedInt
                      type: string
                    _valueUri:
                      description: Extensions for valueUri
                      type: string
                    _valueUrl:
                      description: Extensions for valueUrl
                      type: string
                    _valueUuid:
                      description: Extensions for valueUuid
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    url:
                      description: Source of the definition for the extension code - a
logical name or a URL
                      type: string
                    valueAddress:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueAge:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueAnnotation:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueAttachment:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueBase64Binary:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                      type: string
                    valueBoolean:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^true|false$
                      type: boolean
                    valueCanonical:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^\S*$
                      type: string
                    valueCode:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[^\s]+(\s[^\s]+)*$
                      type: string
                    valueCodeableConcept:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueCodeableReference:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueCoding:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueContactDetail:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueContactPoint:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
```

```yaml
                  valueContributor:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueCount:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueDataRequirement:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueDate:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                  valueDateTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  valueDecimal:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  valueDistance:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueDosage:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueDuration:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueExpression:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueHumanName:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueId:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[A-Za-z0-9\-\.]{1,64}$
                    type: string
                  valueIdentifier:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueInstant:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                    type: string
                  valueInteger:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?([0]|([1-9][0-9]*))$
                    type: number
                  valueMarkdown:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueMoney:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueOid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                  valueParameterDefinition:
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valuePeriod:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valuePositiveInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                  valueQuantity:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueRange:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueRatio:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueRatioRange:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueReference:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueRelatedArtifact:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueSampledData:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueSignature:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueString:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  valueTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                      type: string
                  valueTiming:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueTriggerDefinition:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueUnsignedInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[0]|([1-9][0-9]*)$
                      type: number
                  valueUri:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^\S*$
                      type: string
                  valueUrl:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^\S*$
                      type: string
                  valueUsageContext:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                  valueUuid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
```

```yaml
{4}-[0-9a-f]{12}$
                  type: string
             type: object
         type: array
     id:
       description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
       pattern: '^[ \r\n\t\S]+$'
       type: string
     url:
       description: Source of the definition for the extension code - a
logical name or a URL
       pattern: ^\S*$
       type: string
     valueAddress:
       additionalProperties: false
       description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
       properties:
         _city:
           additionalProperties: false
           description: Extensions for city
           properties:
             extension:
               description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
               items:
                 type: string
               type: array
             id:
               description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
               type: string
           type: object
         _country:
           additionalProperties: false
           description: Extensions for country
           properties:
             extension:
               description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
               items:
                 type: string
               type: array
             id:
               description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
               type: string
           type: object
         _district:
           additionalProperties: false
           description: Extensions for district
           properties:
             extension:
               description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
               items:
                 type: string
               type: array
             id:
               description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
               type: string
           type: object
         _line:
           description: Extensions for line
           items:
             type: string
           type: array
         _postalCode:
           additionalProperties: false
           description: Extensions for postalCode
           properties:
             extension:
```

```yaml
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                    _state:
                      additionalProperties: false
                      description: Extensions for state
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _text:
                      additionalProperties: false
                      description: Extensions for text
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _type:
                      additionalProperties: false
                      description: Extensions for type
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _use:
                      additionalProperties: false
                      description: Extensions for use
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
```

```yaml
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                city:
                  description: 'The name of the city, town, suburb, village or other
community or delivery center'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                country:
                  description:
Country - a nation as commonly understood or generally accepted
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                district:
                  description: The name of the administrative area (county)
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                line:
                  description: 'This component contains the house number, apartment
number, street name, street direction,  P.O. Box number, delivery hints, and
similar address information'
                  items:
                    type: string
                  type: array
                period:
                  additionalProperties: false
                  description: Time period when address was/is in use
                  properties:
                    _end:
                      description: Extensions for end
                      type: string
                    _start:
                      description: Extensions for start
                      type: string
                    end:
                      description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    start:
                      description: The start of the period. The boundary is
inclusive
                      type: string
                  type: object
                postalCode:
                  description: A postal code designating a region defined by the
postal service
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                state:
                  description: Sub-unit of a country with limited sovereignty in a
federally organized country. A code may be used if codes are in common use (e.g. US
2 letter state codes)
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
```

```yaml
                  text:
                    description:
Specifies the entire address as it should be displayed e.g. on a postal label. This
may be provided instead of or as well as the specific parts
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  type:
                    description: Distinguishes between physical addresses (those you
can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                    enum:
                      - postal
                      - physical
                      - both
                  use:
                    description: The purpose of this address
                    enum:
                      - home
                      - work
                      - temp
                      - old
                      - billing
                type: object
              valueAge:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    additionalProperties: false
                    description: Extensions for code
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _comparator:
                    additionalProperties: false
                    description: Extensions for comparator
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _system:
                    additionalProperties: false
                    description: Extensions for system
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _unit:
```

```yaml
                    additionalProperties: false
                    description: Extensions for unit
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _value:
                    additionalProperties: false
                    description: Extensions for value
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  code:
                    description: A computer processable form of the unit in some unit
representation system
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  comparator:
                    description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  system:
                    description: The identification of the system that provides the
coded form of the unit
                    pattern: ^\S*$
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  value:
                    description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                type: object
              valueAnnotation:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
              properties:
                _authorString:
                  additionalProperties: false
                  description: Extensions for authorString
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _text:
                  additionalProperties: false
                  description: Extensions for text
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _time:
                  additionalProperties: false
                  description: Extensions for time
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                authorReference:
                  additionalProperties: false
                  description: The individual responsible for making the
annotation
                  properties:
                    _display:
                      description: Extensions for display
                      type: string
                    _reference:
                      description: Extensions for reference
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    display:
                      description: Plain text narrative that identifies the resource
in addition to the resource reference
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
```

```yaml
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              identifier:
                description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                type: string
              reference:
                description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                type: string
              type:
                description: |-
                  The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                  The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                type: string
            type: object
        authorString:
          description: The individual responsible for making the
annotation
          pattern: '^[ \r\n\t\S]+$'
          type: string
        extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        text:
          description: The text of the annotation in markdown format
          pattern: '^[ \r\n\t\S]+$'
          type: string
        time:
          description: Indicates when this particular annotation was made
          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
          type: string
      type: object
  valueAttachment:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _contentType:
        additionalProperties: false
        description: Extensions for contentType
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
          id:
```

```yaml
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  _creation:
                    additionalProperties: false
                    description: Extensions for creation
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  _data:
                    additionalProperties: false
                    description: Extensions for data
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  _hash:
                    additionalProperties: false
                    description: Extensions for hash
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  _language:
                    additionalProperties: false
                    description: Extensions for language
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  _size:
                    additionalProperties: false
                    description: Extensions for size
                    properties:
                      extension:
                        description: 'May be used to represent additional information
```

              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _title:
                  additionalProperties: false
                  description: Extensions for title
                  properties:
                    extension:
                      description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _url:
                  additionalProperties: false
                  description: Extensions for url
                  properties:
                    extension:
                      description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                contentType:
                  description: Identifies the type of the data in the attachment and
              allows a method to be chosen to interpret or render the data. Includes mime type
              parameters such as charset where appropriate
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                creation:
                  description: The date that the attachment was first created
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
              (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
              [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                  type: string
                data:
                  description: 'The actual data of the attachment - a sequence of
              bytes, base64 encoded'
                  type: string
                extension:
                  description: 'May be used to represent additional information that
              is not part of the basic definition of the element. To make the use of extensions
              safe and manageable, there is a strict set of governance applied to the
              definition and use of extensions. Though any implementer can define an extension,
              there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                  items:
                    type: string
                  type: array
                hash:
                  description: The calculated hash of the data using SHA-1.
              Represented using base64
                  type: string
                id:
                  description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                  pattern: '^[\r\n\t\S]+$'
                  type: string

```yaml
                language:
                  description: The human language of the content. The value can be
any valid value according to BCP 47
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                size:
                  description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                  pattern: ^[0]|([1-9][0-9]*)$
                  type: number
                title:
                  description: A label or set of text to display in place of the
data
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                url:
                  description: A location where the data can be accessed
                  pattern: ^\S*$
                  type: string
              type: object
          valueBase64Binary:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
            type: string
          valueBoolean:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^true|false$
            type: boolean
          valueCanonical:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^\S*$
            type: string
          valueCode:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^[^\s]+(\s[^\s]+)*$
            type: string
          valueCodeableConcept:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _text:
                additionalProperties: false
                description: Extensions for text
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              coding:
                description: A reference to a code defined by a terminology
system
                items:
                  type: string
                type: array
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              text:
```

```yaml
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                  type: object
              valueCodeableReference:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  concept:
                    additionalProperties: false
                    description: A reference to a concept - e.g. the information is
identified by its general class to the degree of precision found in the
terminology
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
system
                        items:
                          type: string
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  reference:
                    additionalProperties: false
                    description: A reference to a resource the provides exact details
about the information being referenced
                    properties:
                      _display:
                        description: Extensions for display
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      display:
                        description: Plain text narrative that identifies the resource
in addition to the resource reference
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

```yaml
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  identifier:
                    description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                    type: string
                  reference:
                    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                    type: string
                  type:
                    description: |-
                      The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                      The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                    type: string
                type: object
            type: object
        valueCoding:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _code:
              additionalProperties: false
              description: Extensions for code
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _display:
              additionalProperties: false
              description: Extensions for display
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _system:
              additionalProperties: false
              description: Extensions for system
              properties:
```

```yaml
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _userSelected:
                    additionalProperties: false
                    description: Extensions for userSelected
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _version:
                    additionalProperties: false
                    description: Extensions for version
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  code:
                    description: A symbol in syntax defined by the system. The symbol
may be a predefined code or an expression in a syntax defined by the coding system
(e.g. post-coordination)
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  display:
                    description: 'A representation of the meaning of the code in the
system, following the rules of the system'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  system:
                    description:
The identification of the code system that defines the meaning of the symbol in the
code
                    pattern: ^\S*$
                    type: string
                  userSelected:
```

```yaml
                        description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                        pattern: ^true|false$
                        type: boolean
                    version:
                        description: 'The version of the code system which was used when
choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                type: object
            valueContactDetail:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                    _name:
                        additionalProperties: false
                        description: Extensions for name
                        properties:
                            extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                    type: string
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                        type: object
                    extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                            type: string
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    name:
                        description: The name of an individual to contact
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    telecom:
                        description: The contact details for the individual (if a name was
provided) or the organization
                        items:
                            type: string
                        type: array
                type: object
            valueContactPoint:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                    _rank:
                        additionalProperties: false
                        description: Extensions for rank
                        properties:
                            extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                    type: string
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
```

```yaml
            type: object
          _system:
            additionalProperties: false
            description: Extensions for system
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _use:
            additionalProperties: false
            description: Extensions for use
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _value:
            additionalProperties: false
            description: Extensions for value
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          period:
            additionalProperties: false
            description: Time period when the contact point was/is in use
            properties:
              _end:
                description: Extensions for end
                type: string
              _start:
                description: Extensions for start
                type: string
              end:
                description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
```

```yaml
                created. The start may be in the past, and the end date in the future, which means
                that period is expected/planned to end at that time'
                        type: string
                    extension:
                        description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                        items:
                            type: string
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                        type: string
                    start:
                        description: The start of the period. The boundary is
                inclusive
                        type: string
                  type: object
                rank:
                    description: Specifies a preferred order in which to use a set of
                contacts. ContactPoints with lower rank values are more preferred than those with
                higher rank values
                    pattern: ^[1-9][0-9]*$
                    type: number
                system:
                    description: Telecommunications form for contact point - what
                communications system is required to make use of the contact
                    enum:
                      - phone
                      - fax
                      - email
                      - pager
                      - url
                      - sms
                      - other
                use:
                  description: Identifies the purpose for the contact point
                  enum:
                      - home
                      - work
                      - temp
                      - old
                      - mobile
                value:
                    description: 'The actual contact point details, in a form that is
                meaningful to the designated communication system (i.e. phone number or email
                address)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
              type: object
            valueContributor:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained set of
                the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _name:
                  additionalProperties: false
                  description: Extensions for name
                  properties:
                    extension:
                        description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                        items:
                            type: string
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                _type:
                  additionalProperties: false
                  description: Extensions for type
                  properties:
                    extension:
                        description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
```

```yaml
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    contact:
                      description: Contact details to assist a user in finding and
                communicating with the contributor
                        items:
                          type: string
                        type: array
                      extension:
                        description: 'May be used to represent additional information that
                is not part of the basic definition of the element. To make the use of extensions
                safe and manageable, there is a strict set of governance  applied to the
                definition and use of extensions. Though any implementer can define an extension,
                there is a set of requirements that SHALL be met as part of the definition of the
                extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        name:
                          description:
                The name of the individual or organization responsible for the contribution
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        type:
                          description: The type of contributor
                          enum:
                            - author
                            - editor
                            - reviewer
                            - endorser
                      type: object
                  valueCount:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained set of
                the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          additionalProperties: false
                          description: Extensions for code
                          properties:
                            extension:
                              description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                                items:
                                  type: string
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                                type: string
                              type: object
                        _comparator:
                          additionalProperties: false
                          description: Extensions for comparator
                          properties:
                            extension:
                              description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                                items:
                                  type: string
                                type: array
                              id:
                                description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
```

```yaml
                    type: string
                  type: object
                _system:
                  additionalProperties: false
                  description: Extensions for system
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _unit:
                  additionalProperties: false
                  description: Extensions for unit
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _value:
                  additionalProperties: false
                  description: Extensions for value
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                code:
                  description: A computer processable form of the unit in some unit
representation system
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                comparator:
                  description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
                  enum:
                  - <
                  - <=
                  - '>='
                  - >
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
```

```
                internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    system:
                        description: The identification of the system that provides the
coded form of the unit
                        pattern: ^\S*$
                        type: string
                    unit:
                        description: A human-readable form of the unit
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    value:
                        description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
                        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                        type: number
                type: object
            valueDataRequirement:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                    _limit:
                        additionalProperties: false
                        description: Extensions for limit
                        properties:
                            extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                    type: string
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                        type: object
                    _mustSupport:
                        description: Extensions for mustSupport
                        items:
                            type: string
                        type: array
                    _type:
                        additionalProperties: false
                        description: Extensions for type
                        properties:
                            extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                    type: string
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                type: string
                        type: object
                    codeFilter:
                        description: 'Code filters specify additional constraints on the
data, specifying the value set of interest for a particular element of the data.
Each code filter defines an additional constraint on the data, i.e. code filters
are AND''ed, not OR''ed'
                        items:
                            type: string
                        type: array
                    dateFilter:
                        description: 'Date filters specify additional constraints on the
data in terms of the applicable date range for specific elements. Each date filter
specifies an additional constraint on the data, i.e. date filters are AND''ed, not
OR''ed'
                        items:
                            type: string
                        type: array
                    extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
```

```yaml
        definition and use of extensions. Though any implementer can define an extension,
        there is a set of requirements that SHALL be met as part of the definition of the
        extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              limit:
                description: Specifies a maximum number of results that are
        required (uses the _count search parameter)
                pattern: ^[1-9][0-9]*$
                type: number
              mustSupport:
                description: "Indicates that specific elements of the type are
        referenced by the knowledge module and must be supported by the consumer in order
        to obtain an effective evaluation. This does not mean that a value is required for
        this element, only that the consuming system must understand the element and be
        able to provide values for it if they are available. \n\nThe value of mustSupport
        SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
        consist only of identifiers, constant indexers, and .resolve() (see the [Simple
        FHIRPath Profile](fhirpath.html#simple) for full details)"
                items:
                  type: string
                type: array
              profile:
                description: 'The profile of the required data, specified as the
        uri of the profile definition'
                items:
                  type: string
                type: array
              sort:
                description: Specifies the order of the results to be returned
                items:
                  type: string
                type: array
              subjectCodeableConcept:
                additionalProperties: false
                description: 'The intended subjects of the data requirement. If
        this element is not provided, a Patient subject is assumed'
                properties:
                  _text:
                    description: Extensions for text
                    type: string
                  coding:
                    description: A reference to a code defined by a terminology
        system
                    items:
                      type: string
                    type: array
                  extension:
                    description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                    type: string
                  text:
                    description: A human language representation of the concept as
        seen/selected/uttered by the user who entered the data and/or which represents the
        intended meaning of the user
                    type: string
                type: object
              subjectReference:
                additionalProperties: false
                description: 'The intended subjects of the data requirement. If
        this element is not provided, a Patient subject is assumed'
                properties:
                  _display:
                    description: Extensions for display
                    type: string
                  _reference:
                    description: Extensions for reference
                    type: string
                  _type:
                    description: Extensions for type
```

```yaml
                          type: string
                    display:
                      description: Plain text narrative that identifies the resource
in addition to the resource reference
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    identifier:
                      description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                      type: string
                    reference:
                      description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                      type: string
                    type:
                      description: |-
                        The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                        The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                      type: string
                  type: object
                type:
                  description: 'The type of the required data, specified as the type
name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
              type: object
          valueDate:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-(0[1-9]|
1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
            type: string
          valueDateTime:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-(0[1-9]|
1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)
(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
            type: string
          valueDecimal:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
            type: number
          valueDistance:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _code:
                additionalProperties: false
                description: Extensions for code
                properties:
                  extension:
                    description: 'May be used to represent additional information
```

```yaml
                    that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _comparator:
                    additionalProperties: false
                    description: Extensions for comparator
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _system:
                    additionalProperties: false
                    description: Extensions for system
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _unit:
                    additionalProperties: false
                    description: Extensions for unit
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _value:
                    additionalProperties: false
                    description: Extensions for value
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
```

```yaml
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                code:
                    description: A computer processable form of the unit in some unit
representation system
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                comparator:
                    description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                        type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                system:
                    description: The identification of the system that provides the
coded form of the unit
                    pattern: ^\S*$
                    type: string
                unit:
                    description: A human-readable form of the unit
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                value:
                    description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
            type: object
          valueDosage:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _asNeededBoolean:
                additionalProperties: false
                description: Extensions for asNeededBoolean
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _patientInstruction:
                additionalProperties: false
                description: Extensions for patientInstruction
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
```

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                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _sequence:
                additionalProperties: false
                description: Extensions for sequence
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _text:
                additionalProperties: false
                description: Extensions for text
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              additionalInstruction:
                description: Supplemental instructions to the patient on how to
take the medication  (e.g. with meals ortake half to one hour before food) or
warnings for the patient about the medication (e.g. may cause drowsiness or avoid
exposure of skin to direct sunlight or sunlamps)
                items:
                  type: string
                type: array
              asNeededBoolean:
                description: 'Indicates whether the Medication is only taken when
needed within a specific dosing schedule (Boolean option), or it indicates the
precondition for taking the Medication (CodeableConcept)'
                pattern: ^true|false$
                type: boolean
              asNeededCodeableConcept:
                additionalProperties: false
                description: 'Indicates whether the Medication is only taken when
needed within a specific dosing schedule (Boolean option), or it indicates the
precondition for taking the Medication (CodeableConcept)'
                properties:
                  _text:
                    description: Extensions for text
                    type: string
                  coding:
                    description: A reference to a code defined by a terminology
system
                    items:
                      type: string
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
```

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                    text:
                      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                doseAndRate:
                  description: The amount of medication administered
                  items:
                    type: string
                  type: array
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                maxDosePerAdministration:
                  additionalProperties: false
                  description: Upper limit on medication per administration
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                maxDosePerLifetime:
```

```yaml
                    additionalProperties: false
                    description: Upper limit on medication per lifetime of the
patient
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  maxDosePerPeriod:
                    additionalProperties: false
                    description: Upper limit on medication per unit of time
                    properties:
                      denominator:
                        description: The value of the denominator
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      numerator:
                        description: The value of the numerator
                        type: string
                    type: object
                  method:
                    additionalProperties: false
```

```yaml
                    description: Technique for administering medication
                  properties:
                    _text:
                      description: Extensions for text
                      type: string
                    coding:
                      description: A reference to a code defined by a terminology
system
                      items:
                        type: string
                      type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    text:
                      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                      type: string
                  type: object
                modifierExtension:
                  description: |-
                    May be used to represent additional information that is not part
of the basic definition of the element and that modifies the understanding of the
element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                    Modifier extensions SHALL NOT change the meaning of any elements
on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                  items:
                    type: string
                  type: array
                patientInstruction:
                  description: Instructions in terms that are understood by the
patient or consumer
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                route:
                  additionalProperties: false
                  description: How drug should enter body
                  properties:
                    _text:
                      description: Extensions for text
                      type: string
                    coding:
                      description: A reference to a code defined by a terminology
system
                      items:
                        type: string
                      type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    text:
                      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                      type: string
                  type: object
```

```yaml
        sequence:
          description: Indicates the order in which the dosage instructions
should be applied or interpreted
          pattern: ^-?([0]|([1-9][0-9]*))$
          type: number
        site:
          additionalProperties: false
          description: Body site to administer to
          properties:
            _text:
              description: Extensions for text
              type: string
            coding:
              description: A reference to a code defined by a terminology
system
              items:
                type: string
              type: array
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            text:
              description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
              type: string
          type: object
        text:
          description: Free text dosage instructions e.g. SIG
          pattern: '^[ \r\n\t\S]+$'
          type: string
        timing:
          additionalProperties: false
          description: When medication should be administered
          properties:
            _event:
              description: Extensions for event
              items:
                type: string
              type: array
            code:
              description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
              type: string
            event:
              description: Identifies specific times when the event
occurs
              items:
                type: string
              type: array
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            modifierExtension:
              description: |-
                May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
```

```yaml
        To make the use of extensions safe and manageable, there is a strict set of
        governance applied to the definition and use of extensions. Though any implementer
        can define an extension, there is a set of requirements that SHALL be met as part
        of the definition of the extension. Applications processing a resource are required
        to check for modifier extensions.

                            Modifier extensions SHALL NOT change the meaning of any
        elements on Resource or DomainResource (including cannot change the meaning of
        modifierExtension itself)
                        items:
                          type: string
                        type: array
                    repeat:
                        description: A set of rules that describe when the event is
        scheduled
                        type: string
                  type: object
              type: object
          valueDuration:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
        the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _code:
                additionalProperties: false
                description: Extensions for code
                properties:
                  extension:
                    description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _comparator:
                additionalProperties: false
                description: Extensions for comparator
                properties:
                  extension:
                    description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _system:
                additionalProperties: false
                description: Extensions for system
                properties:
                  extension:
                    description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
        extensions safe and manageable, there is a strict set of governance  applied to
        the definition and use of extensions. Though any implementer can define an
        extension, there is a set of requirements that SHALL be met as part of the
        definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
        internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _unit:
                additionalProperties: false
                description: Extensions for unit
                properties:
                  extension:
                    description: 'May be used to represent additional information
        that is not part of the basic definition of the element. To make the use of
```

```yaml
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  _value:
                    additionalProperties: false
                    description: Extensions for value
                    properties:
                      extension:
                        description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                  code:
                    description: A computer processable form of the unit in some unit
                    representation system
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  comparator:
                    description: 'How the value should be understood and represented -
                    whether the actual value is greater or less than the stated value due to
                    measurement issues; e.g. if the comparator is < , then the real value is < stated
                    value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information that
                    is not part of the basic definition of the element. To make the use of extensions
                    safe and manageable, there is a strict set of governance  applied to the
                    definition and use of extensions. Though any implementer can define an extension,
                    there is a set of requirements that SHALL be met as part of the definition of the
                    extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
                    internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  system:
                    description: The identification of the system that provides the
                    coded form of the unit
                    pattern: ^\S*$
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  value:
                    description: The value of the measured amount. The value includes
                    an implicit precision in the presentation of the value
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                type: object
              valueExpression:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
                the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _description:
                    additionalProperties: false
                    description: Extensions for description
                    properties:
                      extension:
```

```yaml
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
              _expression:
                additionalProperties: false
                description: Extensions for expression
                properties:
                  extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
              _language:
                additionalProperties: false
                description: Extensions for language
                properties:
                  extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
              _name:
                additionalProperties: false
                description: Extensions for name
                properties:
                  extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
              _reference:
                additionalProperties: false
                description: Extensions for reference
                properties:
                  extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                  id:
```

```yaml
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
              description:
                description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                pattern: '^[ \r\n\t\S]+$'
                type: string
              expression:
                description:
An expression in the specified language that returns a value
                pattern: '^[ \r\n\t\S]+$'
                type: string
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              language:
                description: The media type of the language for the expression
                enum:
                  - text/cql
                  - text/fhirpath
                  - application/x-fhir-query
                  - text/cql-identifier
                  - text/cql-expression
              name:
                description: A short name assigned to the expression to allow for
multiple reuse of the expression in the context where it is defined
                pattern: ^[A-Za-z0-9\-\.]{1,64}$
                type: string
              reference:
                description: A URI that defines where the expression is found
                pattern: ^\S*$
                type: string
          type: object
        valueHumanName:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _family:
              additionalProperties: false
              description: Extensions for family
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _given:
              description: Extensions for given
              items:
                type: string
              type: array
            _prefix:
              description: Extensions for prefix
              items:
                type: string
              type: array
            _suffix:
              description: Extensions for suffix
              items:
                type: string
              type: array
```

```
                      _text:
                        additionalProperties: false
                        description: Extensions for text
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _use:
                        additionalProperties: false
                        description: Extensions for use
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                          type: string
                        type: array
                      family:
                        description: The part of a name that links to the genealogy. In
some cultures (e.g. Eritrea) the family name of a son is the first name of his
father
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      given:
                        description: Given name
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      period:
                        additionalProperties: false
                        description: Indicates the period of time when this name was valid
for the named person
                        properties:
                          _end:
                            description: Extensions for end
                            type: string
                          _start:
                            description: Extensions for start
                            type: string
                          end:
                            description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  start:
                      description: The start of the period. The boundary is
inclusive
                      type: string
                  type: object
              prefix:
                  description: 'Part of the name that is acquired as a title due to
academic, legal, employment or nobility status, etc. and that appears at the start
of the name'
                  items:
                    type: string
                  type: array
              suffix:
                  description: 'Part of the name that is acquired as a title due to
academic, legal, employment or nobility status, etc. and that appears at the end
of the name'
                  items:
                    type: string
                  type: array
              text:
                  description: Specifies the entire name as it should be displayed
e.g. on an application UI. This may be provided instead of or as well as the
specific parts
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              use:
                  description: Identifies the purpose for this name
                  enum:
                    - usual
                    - official
                    - temp
                    - nickname
                    - anonymous
                    - old
                    - maiden
            type: object
        valueId:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^[A-Za-z0-9\-\.]{1,64}$
            type: string
        valueIdentifier:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _system:
                additionalProperties: false
                description: Extensions for system
                properties:
                  extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
              _use:
                additionalProperties: false
                description: Extensions for use
                properties:
                  extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
```

```yaml
                              type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _value:
                      additionalProperties: false
                      description: Extensions for value
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  assigner:
                    additionalProperties: false
                    description: Organization that issued/manages the identifier
                    properties:
                      _display:
                        description: Extensions for display
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      display:
                        description: Plain text narrative that identifies the resource
in addition to the resource reference
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      identifier:
                        description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                        type: string
                      reference:
                        description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                        type: string
                      type:
                        description: |-
                          The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                          The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
```

```yaml
                              type: string
                        type: object
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    period:
                      additionalProperties: false
                      description: Time period during which identifier is/was valid for
use
                      properties:
                        _end:
                          description: Extensions for end
                          type: string
                        _start:
                          description: Extensions for start
                          type: string
                        end:
                          description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        start:
                          description: The start of the period. The boundary is
inclusive
                          type: string
                      type: object
                    system:
                      description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
                      pattern: ^\S*$
                      type: string
                    type:
                      additionalProperties: false
                      description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
                      properties:
                        _text:
                          description: Extensions for text
                          type: string
                        coding:
                          description: A reference to a code defined by a terminology
system
                          items:
                            type: string
                          type: array
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
```

```yaml
                  text:
                    description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                    type: string
                type: object
              use:
                description: The purpose of this identifier
                enum:
                  - usual
                  - official
                  - temp
                  - secondary
                  - old
              value:
                description: The portion of the identifier typically relevant to
the user and which is unique within the context of the system
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
          valueInstant:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-(0[1-9]|
1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
              type: string
          valueInteger:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: ^-?([0]|([1-9][0-9]*))$
              type: number
          valueMarkdown:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: '^[ \r\n\t\S]+$'
              type: string
          valueMoney:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _currency:
                  additionalProperties: false
                  description: Extensions for currency
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                _value:
                  additionalProperties: false
                  description: Extensions for value
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                currency:
                  description: ISO 4217 Currency Code
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                extension:
                  description: 'May be used to represent additional information that
```

```yaml
                  is not part of the basic definition of the element. To make the use of extensions
                  safe and manageable, there is a strict set of governance  applied to the
                  definition and use of extensions. Though any implementer can define an extension,
                  there is a set of requirements that SHALL be met as part of the definition of the
                  extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  value:
                    description: Numerical value (with implicit precision)
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                type: object
              valueOid:
                description: 'Value of extension - must be one of a constrained set of
          the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                type: string
              valueParameterDefinition:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
          the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _documentation:
                    additionalProperties: false
                    description: Extensions for documentation
                    properties:
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _max:
                    additionalProperties: false
                    description: Extensions for max
                    properties:
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _min:
                    additionalProperties: false
                    description: Extensions for min
                    properties:
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _name:
```

```
                        additionalProperties: false
                        description: Extensions for name
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _type:
                        additionalProperties: false
                        description: Extensions for type
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      _use:
                        additionalProperties: false
                        description: Extensions for use
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        type: object
                      documentation:
                        description: A brief discussion of what the parameter is for and
how it is used by the module
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      max:
                        description: The maximum number of times this element is permitted
to appear in the request or response
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      min:
                        description: The minimum number of times this parameter SHALL
appear in the request or response
                        pattern: ^-?([0]|([1-9][0-9]*))$
                        type: number
```

```yaml
            name:
              description: The name of the parameter used to allow access to the
value of the parameter in evaluation contexts
              pattern: ^[^\s]+(\s[^\s]+)*$
              type: string
            profile:
              description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
              pattern: ^\S*$
              type: string
            type:
              description: The type of the parameter
              pattern: ^[^\s]+(\s[^\s]+)*$
              type: string
            use:
              description: Whether the parameter is input or output for the
module
              pattern: ^[^\s]+(\s[^\s]+)*$
              type: string
          type: object
      valuePeriod:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        properties:
          _end:
            additionalProperties: false
            description: Extensions for end
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _start:
            additionalProperties: false
            description: Extensions for start
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          end:
            description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|1[0-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
            type: string
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
```

```yaml
              type: string
          start:
            description: The start of the period. The boundary is inclusive
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
            type: string
        type: object
    valuePositiveInt:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^[1-9][0-9]*$
      type: number
    valueQuantity:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _code:
          additionalProperties: false
          description: Extensions for code
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        _comparator:
          additionalProperties: false
          description: Extensions for comparator
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        _system:
          additionalProperties: false
          description: Extensions for system
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        _unit:
          additionalProperties: false
          description: Extensions for unit
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

```yaml
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                type: object
            _value:
              additionalProperties: false
              description: Extensions for value
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                type: object
            code:
              description: A computer processable form of the unit in some unit
representation system
              pattern: ^[^\s]+(\s[^\s]+)*$
              type: string
            comparator:
              description: 'How the value should be understood and represented -
whether the actual value is greater or less than the stated value due to
measurement issues; e.g. if the comparator is < , then the real value is < stated
value'
              enum:
                - <
                - <=
                - '>='
                - >
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            system:
              description: The identification of the system that provides the
coded form of the unit
              pattern: ^\S*$
              type: string
            unit:
              description: A human-readable form of the unit
              pattern: '^[ \r\n\t\S]+$'
              type: string
            value:
              description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
              pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
              type: number
          type: object
        valueRange:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
```

```yaml
              type: array
          high:
            additionalProperties: false
            description: The high limit. The boundary is inclusive
            properties:
              _code:
                description: Extensions for code
                type: string
              _comparator:
                description: Extensions for comparator
                type: string
              _system:
                description: Extensions for system
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
              code:
                description: A computer processable form of the unit in some
unit representation system
                type: string
              comparator:
                description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                enum:
                  - <
                  - <=
                  - '>='
                  - >
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              system:
                description:
The identification of the system that provides the coded form of the unit
                type: string
              unit:
                description: A human-readable form of the unit
                type: string
              value:
                description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                type: string
            type: object
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          low:
            additionalProperties: false
            description: The low limit. The boundary is inclusive
            properties:
              _code:
                description: Extensions for code
                type: string
              _comparator:
                description: Extensions for comparator
                type: string
              _system:
                description: Extensions for system
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
              code:
                description: A computer processable form of the unit in some
```

```yaml
unit representation system
                type: string
              comparator:
                description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                enum:
                  - <
                  - <=
                  - '>='
                  - >
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              system:
                description:
The identification of the system that provides the coded form of the unit
                type: string
              unit:
                description: A human-readable form of the unit
                type: string
              value:
                description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                type: string
            type: object
        type: object
      valueRatio:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        properties:
          denominator:
            additionalProperties: false
            description: The value of the denominator
            properties:
              _code:
                description: Extensions for code
                type: string
              _comparator:
                description: Extensions for comparator
                type: string
              _system:
                description: Extensions for system
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
              code:
                description: A computer processable form of the unit in some
unit representation system
                type: string
              comparator:
                description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                enum:
                  - <
                  - <=
                  - '>='
                  - >
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
```

```yaml
                              type: array
                        id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                        system:
                              description:
The identification of the system that provides the coded form of the unit
                              type: string
                        unit:
                              description: A human-readable form of the unit
                              type: string
                        value:
                              description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                              type: string
                        type: object
                  extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                              type: string
                        type: array
                  id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                  numerator:
                        additionalProperties: false
                        description: The value of the numerator
                        properties:
                          _code:
                            description: Extensions for code
                            type: string
                          _comparator:
                            description: Extensions for comparator
                            type: string
                          _system:
                            description: Extensions for system
                            type: string
                          _unit:
                            description: Extensions for unit
                            type: string
                          _value:
                            description: Extensions for value
                            type: string
                          code:
                            description: A computer processable form of the unit in some
unit representation system
                            type: string
                          comparator:
                            description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                            enum:
                              - <
                              - <=
                              - '>='
                              - >
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          system:
                            description:
The identification of the system that provides the coded form of the unit
                            type: string
                          unit:
                            description: A human-readable form of the unit
                            type: string
```

```yaml
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                type: object
            valueRatioRange:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                denominator:
                  additionalProperties: false
                  description: The value of the denominator
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                highNumerator:
                  additionalProperties: false
                  description: The value of the high limit numerator
                  properties:
                    _code:
                      description: Extensions for code
```

```yaml
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  lowNumerator:
                    additionalProperties: false
                    description: The value of the low limit numerator
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
```

```yaml
                              enum:
                                - <
                                - <=
                                - '>='
                                - >
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        system:
                          description:
The identification of the system that provides the coded form of the unit
                          type: string
                        unit:
                          description: A human-readable form of the unit
                          type: string
                        value:
                          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                          type: string
                      type: object
                  type: object
              valueReference:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _display:
                    additionalProperties: false
                    description: Extensions for display
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _reference:
                    additionalProperties: false
                    description: Extensions for reference
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _type:
                    additionalProperties: false
                    description: Extensions for type
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

```yaml
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          display:
            description: Plain text narrative that identifies the resource in
addition to the resource reference
            pattern: '^[ \r\n\t\S]+$'
            type: string
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          identifier:
            additionalProperties: false
            description: 'An identifier for the target resource. This is used
when there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
            properties:
              _system:
                description: Extensions for system
                type: string
              _use:
                description: Extensions for use
                type: string
              _value:
                description: Extensions for value
                type: string
              assigner:
                description: Organization that issued/manages the
identifier
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              period:
                description: Time period during which identifier is/was valid
for use
                type: string
              system:
                description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                type: string
              type:
                description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                type: string
              use:
                description: The purpose of this identifier
                enum:
                  - usual
                  - official
                  - temp
                  - secondary
                  - old
```

```
                  value:
                    description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                      type: string
                  type: object
                reference:
                    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                type:
                    description: |-
                        The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                        The type is the Canonical URL of Resource Definition that is the
type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                    pattern: ^\S*$
                    type: string
              type: object
          valueRelatedArtifact:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _citation:
                additionalProperties: false
                description: Extensions for citation
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _display:
                additionalProperties: false
                description: Extensions for display
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _label:
                additionalProperties: false
                description: Extensions for label
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
```

```yaml
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
              _type:
                additionalProperties: false
                description: Extensions for type
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _url:
                additionalProperties: false
                description: Extensions for url
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              citation:
                description: A bibliographic citation for the related artifact.
This text SHOULD be formatted according to an accepted citation format
                pattern: '^[ \r\n\t\S]+$'
                type: string
              display:
                description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
                pattern: '^[ \r\n\t\S]+$'
                type: string
              document:
                additionalProperties: false
                description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
                properties:
                  _contentType:
                    description: Extensions for contentType
                    type: string
                  _creation:
                    description: Extensions for creation
                    type: string
                  _data:
                    description: Extensions for data
                    type: string
                  _hash:
                    description: Extensions for hash
                    type: string
                  _language:
                    description: Extensions for language
                    type: string
                  _size:
                    description: Extensions for size
                    type: string
                  _title:
                    description: Extensions for title
                    type: string
                  _url:
                    description: Extensions for url
                    type: string
                  contentType:
                    description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                    type: string
```

```yaml
                    creation:
                      description: The date that the attachment was first created
                      type: string
                    data:
                      description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    hash:
                      description: The calculated hash of the data using SHA-1.
Represented using base64
                      type: string
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    language:
                      description: The human language of the content. The value can
be any valid value according to BCP 47
                      type: string
                    size:
                      description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                      type: string
                    title:
                      description: A label or set of text to display in place of the
data
                      type: string
                    url:
                      description: A location where the data can be accessed
                      type: string
                  type: object
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                label:
                  description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                resource:
                  description: 'The related resource, such as a library, value set,
profile, or other knowledge resource'
                  pattern: ^\S*$
                  type: string
                type:
                  description: The type of relationship to the related artifact
                  enum:
                    - documentation
                    - justification
                    - citation
                    - predecessor
                    - successor
                    - derived-from
                    - depends-on
                    - composed-of
                url:
                  description: A url for the artifact that can be followed to access
the actual content
                  pattern: ^\S*$
                  type: string
              type: object
          valueSampledData:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
```

```
        the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _data:
                additionalProperties: false
                description: Extensions for data
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _dimensions:
                additionalProperties: false
                description: Extensions for dimensions
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _factor:
                additionalProperties: false
                description: Extensions for factor
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _lowerLimit:
                additionalProperties: false
                description: Extensions for lowerLimit
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _period:
                additionalProperties: false
                description: Extensions for period
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
```

```yaml
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                          items:
                            type: string
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _upperLimit:
                    additionalProperties: false
                    description: Extensions for upperLimit
                    properties:
                      extension:
                        description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance  applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                          items:
                            type: string
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  data:
                    description: 'A series of data points which are decimal values
                separated by a single space (character u20). The special values E (error), L
                (below detection limit) and U (above detection limit) can also be used in place of
                a decimal value'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  dimensions:
                    description: 'The number of sample points at each time point. If
                this value is greater than one, then the dimensions will be interlaced - all the
                sample points for a point in time will be recorded at once'
                    pattern: ^[1-9][0-9]*$
                    type: number
                  extension:
                    description: 'May be used to represent additional information that
                is not part of the basic definition of the element. To make the use of extensions
                safe and manageable, there is a strict set of governance  applied to the
                definition and use of extensions. Though any implementer can define an extension,
                there is a set of requirements that SHALL be met as part of the definition of the
                extension'
                    items:
                      type: string
                    type: array
                  factor:
                    description: A correction factor that is applied to the sampled
                data points before they are added to the origin
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  id:
                    description: Unique id for the element within a resource (for
                internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  lowerLimit:
                    description: The lower limit of detection of the measured points.
                This is needed if any of the data points have the value L (lower than detection
                limit)
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  origin:
                    additionalProperties: false
                    description: 'The base quantity that a measured value of zero
                represents. In addition, this provides the units of the entire measurement
                series'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
```

```yaml
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                    type: string
                type: object
              period:
                description: 'The length of time between sampling times, measured
in milliseconds'
                pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                type: number
              upperLimit:
                description: The upper limit of detection of the measured points.
This is needed if any of the data points have the value U (higher than detection
limit)
                pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                type: number
          required:
            - origin
          type: object
        valueSignature:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _data:
              additionalProperties: false
              description: Extensions for data
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _sigFormat:
              additionalProperties: false
              description: Extensions for sigFormat
              properties:
```

```yaml
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _targetFormat:
                    additionalProperties: false
                    description: Extensions for targetFormat
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  _when:
                    additionalProperties: false
                    description: Extensions for when
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                  data:
                    description: The base64 encoding of the Signature content. When
signature is not recorded electronically this element would be empty
                    type: string
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  onBehalfOf:
                    additionalProperties: false
                    description: A reference to an application-usable description of
the identity that is represented by the signature
                    properties:
                      _display:
                        description: Extensions for display
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
```

```yaml
                    display:
                      description: Plain text narrative that identifies the resource
in addition to the resource reference
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    identifier:
                      description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                      type: string
                    reference:
                      description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                      type: string
                    type:
                      description: |-
                        The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                        The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                      type: string
                  type: object
                sigFormat:
                  description: 'A mime type that indicates the technical format of
the signature. Important mime types are application/signature+xml for X ML DigSig,
application/jose for JWS, and image/* for a graphical image of a signature,
etc'
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                targetFormat:
                  description:
A mime type that indicates the technical format of the target resources signed by
the signature
                  pattern: ^[^\s]+(\s[^\s]+)*$
                  type: string
                type:
                  description: An indication of the reason that the entity signed
this document. This may be explicitly included as part of the signature information
and can be used when determining accountability for various actions concerning the
document
                  items:
                    type: string
                  type: array
                when:
                  description: When the digital signature was signed
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                  type: string
                who:
                  additionalProperties: false
                  description: A reference to an application-usable description of
the identity that signed  (e.g. the signature used their private key)
                  properties:
                    _display:
                      description: Extensions for display
                      type: string
                    _reference:
                      description: Extensions for reference
```

```yaml
                      type: string
                  _type:
                    description: Extensions for type
                    type: string
                  display:
                    description: Plain text narrative that identifies the resource
in addition to the resource reference
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  identifier:
                    description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                    type: string
                  reference:
                    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                    type: string
                  type:
                    description: |-
                      The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                      The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                    type: string
                type: object
              required:
                - type
                - who
              type: object
          valueString:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: '^[ \r\n\t\S]+$'
            type: string
          valueTime:
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?$
            type: string
          valueTiming:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _event:
                description: Extensions for event
                items:
                  type: string
                type: array
              code:
                additionalProperties: false
                description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
```

```yaml
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
system
                        items:
                          type: string
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                event:
                  description: Identifies specific times when the event occurs
                  items:
                    type: string
                  type: array
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                modifierExtension:
                  description: |-
                    May be used to represent additional information that is not part
of the basic definition of the element and that modifies the understanding of the
element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                    Modifier extensions SHALL NOT change the meaning of any elements
on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                  items:
                    type: string
                  type: array
                repeat:
                  additionalProperties: false
                  description: A set of rules that describe when the event is
scheduled
                  properties:
                    _count:
                      description: Extensions for count
                      type: string
                    _countMax:
                      description: Extensions for countMax
                      type: string
                    _dayOfWeek:
                      description: Extensions for dayOfWeek
                      items:
                        type: string
                      type: array
                    _duration:
                      description: Extensions for duration
                      type: string
```

```yaml
                    _durationMax:
                      description: Extensions for durationMax
                      type: string
                    _durationUnit:
                      description: Extensions for durationUnit
                      type: string
                    _frequency:
                      description: Extensions for frequency
                      type: string
                    _frequencyMax:
                      description: Extensions for frequencyMax
                      type: string
                    _offset:
                      description: Extensions for offset
                      type: string
                    _period:
                      description: Extensions for period
                      type: string
                    _periodMax:
                      description: Extensions for periodMax
                      type: string
                    _periodUnit:
                      description: Extensions for periodUnit
                      type: string
                    _timeOfDay:
                      description: Extensions for timeOfDay
                      items:
                        type: string
                      type: array
                    _when:
                      description: Extensions for when
                      items:
                        type: string
                      type: array
                    boundsDuration:
                      description: 'Either a duration for the length of the timing
schedule, a range of possible length, or outer bounds for start and/or end limits
of the timing schedule'
                      type: string
                    boundsPeriod:
                      description: 'Either a duration for the length of the timing
schedule, a range of possible length, or outer bounds for start and/or end limits
of the timing schedule'
                      type: string
                    boundsRange:
                      description: 'Either a duration for the length of the timing
schedule, a range of possible length, or outer bounds for start and/or end limits
of the timing schedule'
                      type: string
                    count:
                      description: 'A total count of the desired number of
repetitions across the duration of the entire timing specification. If countMax is
present, this element indicates the lower bound of the allowed range of count
values'
                      type: string
                    countMax:
                      description: 'If present, indicates that the count is a range
- so to perform the action between [count] and [countMax] times'
                      type: string
                    dayOfWeek:
                      description: 'If one or more days of week is provided, then
the action happens only on the specified day(s)'
                      items:
                        type: string
                      type: array
                    duration:
                      description: 'How long this thing happens for when it happens.
If durationMax is present, this element indicates the lower bound of the allowed
range of the duration'
                      type: string
                    durationMax:
                      description: 'If present, indicates that the duration is a
range - so to perform the action between [duration] and [durationMax] time
length'
                      type: string
                    durationUnit:
                      description: 'The units of time for the duration, in UCUM
units'
                      enum:
                        - s
                        - min
                        - h
                        - d
                        - wk
                        - mo
                        - a
```

```yaml
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            frequency:
              description: 'The number of times to repeat the action within
the specified period. If frequencyMax is present, this element indicates the lower
bound of the allowed range of the frequency'
              type: string
            frequencyMax:
              description: 'If present, indicates that the frequency is a
range - so to repeat between [frequency] and [frequencyMax] times within the
period or period range'
              type: string
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            modifierExtension:
              description: |-
                May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
              items:
                type: string
              type: array
            offset:
              description: 'The number of minutes from the event. If the
event code does not indicate whether the minutes is before or after the event,
then the offset is assumed to be after the event'
              type: string
            period:
              description: 'Indicates the duration of time over which
repetitions are to occur; e.g. to express 3 times per day, 3 would be the
frequency and 1 day would be the period. If periodMax is present, this element
indicates the lower bound of the allowed range of the period length'
              type: string
            periodMax:
              description: 'If present, indicates that the period is a range
from [period] to [periodMax], allowing expressing concepts such as do this once
every 3-5 days'
              type: string
            periodUnit:
              description: The units of time for the period in UCUM units
              enum:
                - s
                - min
                - h
                - d
                - wk
                - mo
                - a
            timeOfDay:
              description: Specified time of day for action to take place
              items:
                type: string
              type: array
            when:
              description: 'An approximate time period during the day,
potentially linked to an event of daily living that indicates when the action
should occur'
              items:
                enum:
                  - MORN
                  - MORN.early
                  - MORN.late
                  - NOON
                  - AFT
                  - AFT.early
                  - AFT.late
                  - EVE
```

```
                          - EVE.early
                          - EVE.late
                          - NIGHT
                          - PHS
                          - HS
                          - WAKE
                          - C
                          - CM
                          - CD
                          - CV
                          - AC
                          - ACM
                          - ACD
                          - ACV
                          - PC
                          - PCM
                          - PCD
                          - PCV
                      type: array
                type: object
            type: object
        valueTriggerDefinition:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of
            the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _name:
              additionalProperties: false
              description: Extensions for name
              properties:
                extension:
                  description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance  applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _timingDate:
              additionalProperties: false
              description: Extensions for timingDate
              properties:
                extension:
                  description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance  applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _timingDateTime:
              additionalProperties: false
              description: Extensions for timingDateTime
              properties:
                extension:
                  description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance  applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _type:
              additionalProperties: false
              description: Extensions for type
```

```yaml
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              condition:
                additionalProperties: false
                description: A boolean-valued expression that is evaluated in the
context of the container of the trigger definition and returns whether or not the
trigger fires
                properties:
                  _description:
                    description: Extensions for description
                    type: string
                  _expression:
                    description: Extensions for expression
                    type: string
                  _language:
                    description: Extensions for language
                    type: string
                  _name:
                    description: Extensions for name
                    type: string
                  _reference:
                    description: Extensions for reference
                    type: string
                  description:
                    description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                    type: string
                  expression:
                    description: An expression in the specified language that
returns a value
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  language:
                    description: The media type of the language for the
expression
                    enum:
                      - text/cql
                      - text/fhirpath
                      - application/x-fhir-query
                      - text/cql-identifier
                      - text/cql-expression
                  name:
                    description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                    type: string
                  reference:
                    description: A URI that defines where the expression is
found
                    type: string
                type: object
              data:
                description: 'The triggering data of the event (if this is a data
trigger). If more than one data is requirement is specified, then all the data
requirements must be true'
                items:
                  type: string
                type: array
              extension:
                description: 'May be used to represent additional information that
```

```
              is not part of the basic definition of the element. To make the use of extensions
              safe and manageable, there is a strict set of governance  applied to the
              definition and use of extensions. Though any implementer can define an extension,
              there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                name:
                  description: 'A formal name for the event. This may be an absolute
URI that identifies the event formally (e.g. from a trigger registry), or a simple
relative URI that identifies the event in a local context'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                timingDate:
                  description: The timing of the event (if this is a periodic
trigger)
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                  type: string
                timingDateTime:
                  description: The timing of the event (if this is a periodic
trigger)
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                  type: string
                timingReference:
                  additionalProperties: false
                  description: The timing of the event (if this is a periodic
trigger)
                  properties:
                    _display:
                      description: Extensions for display
                      type: string
                    _reference:
                      description: Extensions for reference
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    display:
                      description: Plain text narrative that identifies the resource
in addition to the resource reference
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    identifier:
                      description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                      type: string
                    reference:
                      description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                      type: string
                    type:
                      description: |-
                        The expected type of the target of the reference. If both
```

```
                  Reference.type and Reference.reference are populated and Reference.reference is a
                  FHIR URL, both SHALL be consistent.
                               The type is the Canonical URL of Resource Definition that is
                  the type this reference refers to. References are URLs that are relative to http://
                  hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
                  fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
                  (and can only be used in references in logical models, not resources)
                                     type: string
                            type: object
                        timingTiming:
                          additionalProperties: false
                          description: The timing of the event (if this is a periodic
                  trigger)
                          properties:
                            _event:
                              description: Extensions for event
                              items:
                                type: string
                              type: array
                            code:
                              description: 'A code for the timing schedule (or just text in
                  code.text). Some codes such as BID are ubiquitous, but many institutions define
                  their own additional codes. If a code is provided, the code is understood to be a
                  complete statement of whatever is specified in the structured timing data, and
                  either the code or the data may be used to interpret the Timing, with the
                  exception that .repeat.bounds still applies over the code (and is not contained in
                  the code)'
                              type: string
                            event:
                              description: Identifies specific times when the event
                  occurs
                              items:
                                type: string
                              type: array
                            extension:
                              description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                              items:
                                type: string
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                              type: string
                            modifierExtension:
                              description: |-
                                May be used to represent additional information that is not
                  part of the basic definition of the element and that modifies the understanding of
                  the element in which it is contained and/or the understanding of the containing
                  element's descendants. Usually modifier elements provide negation or qualification.
                  To make the use of extensions safe and manageable, there is a strict set of
                  governance applied to the definition and use of extensions. Though any implementer
                  can define an extension, there is a set of requirements that SHALL be met as part
                  of the definition of the extension. Applications processing a resource are required
                  to check for modifier extensions.
                                Modifier extensions SHALL NOT change the meaning of any
                  elements on Resource or DomainResource (including cannot change the meaning of
                  modifierExtension itself)
                              items:
                                type: string
                              type: array
                            repeat:
                              description: A set of rules that describe when the event is
                  scheduled
                              type: string
                          type: object
                        type:
                          description: The type of triggering event
                          enum:
                            - named-event
                            - periodic
                            - data-changed
                            - data-added
                            - data-modified
                            - data-removed
                            - data-accessed
                            - data-access-ended
                      type: object
                  valueUnsignedInt:
                    description: 'Value of extension - must be one of a constrained set of
                  the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[0]|([1-9][0-9]*)$
```

```yaml
                  type: number
              valueUri:
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUrl:
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUsageContext:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  code:
                    additionalProperties: false
                    description: A code that identifies the type of context being
specified by this usage context
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _display:
                        description: Extensions for display
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _userSelected:
                        description: Extensions for userSelected
                        type: string
                      _version:
                        description: Extensions for version
                        type: string
                      code:
                        description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                        type: string
                      display:
                        description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the code system that defines the meaning of the symbol in the
code
                        type: string
                      userSelected:
                        description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                        type: string
                      version:
                        description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                        type: string
                    type: object
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
```

```yaml
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            valueCodeableConcept:
              additionalProperties: false
              description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
              properties:
                _text:
                  description: Extensions for text
                  type: string
                coding:
                  description: A reference to a code defined by a terminology
system
                  items:
                    type: string
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                text:
                  description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                  type: string
              type: object
            valueQuantity:
              additionalProperties: false
              description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

```
                              type: string
                          system:
                            description:
The identification of the system that provides the coded form of the unit
                              type: string
                          unit:
                            description: A human-readable form of the unit
                              type: string
                          value:
                            description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                              type: string
                        type: object
                      valueRange:
                        additionalProperties: false
                        description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: string
                              type: array
                          high:
                            description: The high limit. The boundary is inclusive
                              type: string
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          low:
                            description: The low limit. The boundary is inclusive
                              type: string
                        type: object
                      valueReference:
                        additionalProperties: false
                        description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
                        properties:
                          _display:
                            description: Extensions for display
                              type: string
                          _reference:
                            description: Extensions for reference
                              type: string
                          _type:
                            description: Extensions for type
                              type: string
                          display:
                            description: Plain text narrative that identifies the resource
in addition to the resource reference
                              type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: string
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          identifier:
                            description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                              type: string
                          reference:
                            description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
```

```yaml
                    reference is not to a FHIR RESTful server, then it should be assumed to be version
                    specific. Internal fragment references (start with '#') refer to contained
                    resources"
                                type: string
                            type:
                                description: |-
                                    The expected type of the target of the reference. If both
                    Reference.type and Reference.reference are populated and Reference.reference is a
                    FHIR URL, both SHALL be consistent.
                                    The type is the Canonical URL of Resource Definition that is
                    the type this reference refers to. References are URLs that are relative to http://
                    hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
                    fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
                    (and can only be used in references in logical models, not resources)
                                type: string
                        type: object
                    required:
                        - code
                    type: object
                valueUuid:
                    description: 'Value of extension - must be one of a constrained set of
        the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
        [0-9a-f]{12}$
                    type: string
            type: object
        type: array
        x-ngsi:
            type: Property
    name:
        description: 'Name used for the account when displaying it to humans in
    reports, etc'
        pattern: '^[ \r\n\t\S]+$'
        type: string
        x-ngsi:
            type: Property
    owner:
        additionalProperties: false
        description: 'Indicates the service area, hospital, department, etc. with
    responsibility for managing the Account'
        properties:
            _display:
                additionalProperties: false
                description: Extensions for display
                properties:
                    extension:
                        description: 'May be used to represent additional information that
        is not part of the basic definition of the element. To make the use of extensions
        safe and manageable, there is a strict set of governance  applied to the
        definition and use of extensions. Though any implementer can define an extension,
        there is a set of requirements that SHALL be met as part of the definition of the
        extension'
                        items:
                            additionalProperties: false
                            properties:
                                _url:
                                    description: Extensions for url
                                    type: string
                                _valueBase64Binary:
                                    description: Extensions for valueBase64Binary
                                    type: string
                                _valueBoolean:
                                    description: Extensions for valueBoolean
                                    type: string
                                _valueCanonical:
                                    description: Extensions for valueCanonical
                                    type: string
                                _valueCode:
                                    description: Extensions for valueCode
                                    type: string
                                _valueDate:
                                    description: Extensions for valueDate
                                    type: string
                                _valueDateTime:
                                    description: Extensions for valueDateTime
                                    type: string
                                _valueDecimal:
                                    description: Extensions for valueDecimal
                                    type: string
                                _valueId:
                                    description: Extensions for valueId
                                    type: string
                                _valueInstant:
                                    description: Extensions for valueInstant
                                    type: string
                                _valueInteger:
```

```yaml
                  description: Extensions for valueInteger
                  type: string
                _valueMarkdown:
                  description: Extensions for valueMarkdown
                  type: string
                _valueOid:
                  description: Extensions for valueOid
                  type: string
                _valuePositiveInt:
                  description: Extensions for valuePositiveInt
                  type: string
                _valueString:
                  description: Extensions for valueString
                  type: string
                _valueTime:
                  description: Extensions for valueTime
                  type: string
                _valueUnsignedInt:
                  description: Extensions for valueUnsignedInt
                  type: string
                _valueUri:
                  description: Extensions for valueUri
                  type: string
                _valueUrl:
                  description: Extensions for valueUrl
                  type: string
                _valueUuid:
                  description: Extensions for valueUuid
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of  requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                url:
                  description: Source of the definition for the extension code -
a logical name or a URL
                  type: string
                valueAddress:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueAge:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueAnnotation:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueAttachment:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueBase64Binary:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                  type: string
                valueBoolean:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  pattern: ^true|false$
                  type: boolean
                valueCanonical:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  pattern: ^\S*$
                  type: string
                valueCode:
```

```yaml
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  valueCodeableConcept:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCodeableReference:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCoding:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContactDetail:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContactPoint:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueContributor:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueCount:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDataRequirement:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDate:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                    type: string
                  valueDateTime:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                    type: string
                  valueDecimal:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                    type: number
                  valueDistance:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDosage:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueDuration:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueExpression:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
```

```yaml
                    valueHumanName:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueId:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[A-Za-z0-9\-\.]{1,64}$
                      type: string
                    valueIdentifier:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueInstant:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                      type: string
                    valueInteger:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^-?([0]|([1-9][0-9]*))$
                      type: number
                    valueMarkdown:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueMoney:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueOid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                      type: string
                    valueParameterDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valuePeriod:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valuePositiveInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                    valueQuantity:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRatio:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRatioRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
```

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                    list)'
                        type: string
                      valueRelatedArtifact:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueSampledData:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueSignature:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueString:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      valueTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                        type: string
                      valueTiming:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueTriggerDefinition:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueUnsignedInt:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[0]|([1-9][0-9]*)$
                        type: number
                      valueUri:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                      valueUrl:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                      valueUsageContext:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueUuid:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                        type: string
                    type: object
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
          _reference:
            additionalProperties: false
            description: Extensions for reference
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
```

```yaml
              definition and use of extensions. Though any implementer can define an extension,
              there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                    items:
                      additionalProperties: false
                      properties:
                        _url:
                          description: Extensions for url
                          type: string
                        _valueBase64Binary:
                          description: Extensions for valueBase64Binary
                          type: string
                        _valueBoolean:
                          description: Extensions for valueBoolean
                          type: string
                        _valueCanonical:
                          description: Extensions for valueCanonical
                          type: string
                        _valueCode:
                          description: Extensions for valueCode
                          type: string
                        _valueDate:
                          description: Extensions for valueDate
                          type: string
                        _valueDateTime:
                          description: Extensions for valueDateTime
                          type: string
                        _valueDecimal:
                          description: Extensions for valueDecimal
                          type: string
                        _valueId:
                          description: Extensions for valueId
                          type: string
                        _valueInstant:
                          description: Extensions for valueInstant
                          type: string
                        _valueInteger:
                          description: Extensions for valueInteger
                          type: string
                        _valueMarkdown:
                          description: Extensions for valueMarkdown
                          type: string
                        _valueOid:
                          description: Extensions for valueOid
                          type: string
                        _valuePositiveInt:
                          description: Extensions for valuePositiveInt
                          type: string
                        _valueString:
                          description: Extensions for valueString
                          type: string
                        _valueTime:
                          description: Extensions for valueTime
                          type: string
                        _valueUnsignedInt:
                          description: Extensions for valueUnsignedInt
                          type: string
                        _valueUri:
                          description: Extensions for valueUri
                          type: string
                        _valueUrl:
                          description: Extensions for valueUrl
                          type: string
                        _valueUuid:
                          description: Extensions for valueUuid
                          type: string
                        extension:
                          description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                          type: string
                        url:
                          description: Source of the definition for the extension code -
              a logical name or a URL
                          type: string
                        valueAddress:
                          description: 'Value of extension - must be one of a
```

```yaml
                  constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueAge:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueAnnotation:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueAttachment:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueBase64Binary:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                      type: string
                  valueBoolean:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      pattern: ^true|false$
                      type: boolean
                  valueCanonical:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      pattern: ^\S*$
                      type: string
                  valueCode:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      pattern: ^[^\s]+(\s[^\s]+)*$
                      type: string
                  valueCodeableConcept:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueCodeableReference:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueCoding:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueContactDetail:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueContactPoint:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueContributor:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueCount:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueDataRequirement:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
                      type: string
                  valueDate:
                      description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
              list)'
```

```yaml
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                        type: string
                      valueDateTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                        type: string
                      valueDecimal:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                        type: number
                      valueDistance:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDosage:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDuration:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueExpression:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueHumanName:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueId:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[A-Za-z0-9\-\.]{1,64}$
                        type: string
                      valueIdentifier:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueInstant:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                        type: string
                      valueInteger:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^-?([0]|([1-9][0-9]*))$
                        type: number
                      valueMarkdown:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      valueMoney:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueOid:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                        type: string
                      valueParameterDefinition:
                        description: 'Value of extension - must be one of a
```

```yaml
                constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valuePeriod:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valuePositiveInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                  valueQuantity:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueRatio:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueRatioRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueRelatedArtifact:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueSampledData:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueSignature:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueString:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  valueTime:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                      type: string
                  valueTiming:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueTriggerDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueUnsignedInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[0]|([1-9][0-9]*)$
                      type: number
                  valueUri:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
```

```yaml
list)'
                            pattern: ^\S*$
                            type: string
                        valueUrl:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^\S*$
                            type: string
                        valueUsageContext:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueUuid:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                            type: string
                      type: object
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
            _type:
              additionalProperties: false
              description: Extensions for type
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    additionalProperties: false
                    properties:
                      _url:
                        description: Extensions for url
                        type: string
                      _valueBase64Binary:
                        description: Extensions for valueBase64Binary
                        type: string
                      _valueBoolean:
                        description: Extensions for valueBoolean
                        type: string
                      _valueCanonical:
                        description: Extensions for valueCanonical
                        type: string
                      _valueCode:
                        description: Extensions for valueCode
                        type: string
                      _valueDate:
                        description: Extensions for valueDate
                        type: string
                      _valueDateTime:
                        description: Extensions for valueDateTime
                        type: string
                      _valueDecimal:
                        description: Extensions for valueDecimal
                        type: string
                      _valueId:
                        description: Extensions for valueId
                        type: string
                      _valueInstant:
                        description: Extensions for valueInstant
                        type: string
                      _valueInteger:
                        description: Extensions for valueInteger
                        type: string
                      _valueMarkdown:
                        description: Extensions for valueMarkdown
                        type: string
                      _valueOid:
                        description: Extensions for valueOid
                        type: string
                      _valuePositiveInt:
                        description: Extensions for valuePositiveInt
                        type: string
                      _valueString:
```

```yaml
              description: Extensions for valueString
              type: string
            _valueTime:
              description: Extensions for valueTime
              type: string
            _valueUnsignedInt:
              description: Extensions for valueUnsignedInt
              type: string
            _valueUri:
              description: Extensions for valueUri
              type: string
            _valueUrl:
              description: Extensions for valueUrl
              type: string
            _valueUuid:
              description: Extensions for valueUuid
              type: string
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          url:
            description: Source of the definition for the extension code -
a logical name or a URL
            type: string
          valueAddress:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
          valueAge:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
          valueAnnotation:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
          valueAttachment:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
          valueBase64Binary:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
            type: string
          valueBoolean:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^true|false$
            type: boolean
          valueCanonical:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^\S*$
            type: string
          valueCode:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^[^\s]+(\s[^\s]+)*$
            type: string
          valueCodeableConcept:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
          valueCodeableReference:
            description: 'Value of extension - must be one of a
```

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                        constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueCoding:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueContactDetail:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueContactPoint:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueContributor:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueCount:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDataRequirement:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDate:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                        type: string
                      valueDateTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                        type: string
                      valueDecimal:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                        type: number
                      valueDistance:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDosage:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDuration:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueExpression:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueHumanName:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueId:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[A-Za-z0-9\-\.]{1,64}$
                        type: string
                      valueIdentifier:
```

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                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueInstant:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                      type: string
                    valueInteger:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^-?([0]|([1-9][0-9]*))$
                      type: number
                    valueMarkdown:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueMoney:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueOid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                      type: string
                    valueParameterDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valuePeriod:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valuePositiveInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                    valueQuantity:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRatio:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRatioRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRelatedArtifact:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueSampledData:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
```

```yaml
                        valueSignature:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueString:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        valueTime:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                          type: string
                        valueTiming:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueTriggerDefinition:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueUnsignedInt:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^[0]|([1-9][0-9]*)$
                          type: number
                        valueUri:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^\S*$
                          type: string
                        valueUrl:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^\S*$
                          type: string
                        valueUsageContext:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueUuid:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                          type: string
                      type: object
                    type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              type: object
          display:
            description: Plain text narrative that identifies the resource in
addition to the resource reference
            pattern: '^[ \r\n\t\S]+$'
            type: string
          extension:
            description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              additionalProperties: false
              properties:
                _url:
                  additionalProperties: false
                  description: Extensions for url
                  properties:
                    extension:
```

```yaml
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueBase64Binary:
                  additionalProperties: false
                  description: Extensions for valueBase64Binary
                  properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueBoolean:
                  additionalProperties: false
                  description: Extensions for valueBoolean
                  properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueCanonical:
                  additionalProperties: false
                  description: Extensions for valueCanonical
                  properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueCode:
                  additionalProperties: false
                  description: Extensions for valueCode
                  properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueDate:
```

```yaml
                  additionalProperties: false
                  description: Extensions for valueDate
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueDateTime:
                  additionalProperties: false
                  description: Extensions for valueDateTime
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueDecimal:
                  additionalProperties: false
                  description: Extensions for valueDecimal
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueId:
                  additionalProperties: false
                  description: Extensions for valueId
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueInstant:
                  additionalProperties: false
                  description: Extensions for valueInstant
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
```

```yaml
internal references). This may be any string value that does not contain spaces
                        type: string
                type: object
              _valueInteger:
                additionalProperties: false
                description: Extensions for valueInteger
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueMarkdown:
                additionalProperties: false
                description: Extensions for valueMarkdown
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueOid:
                additionalProperties: false
                description: Extensions for valueOid
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valuePositiveInt:
                additionalProperties: false
                description: Extensions for valuePositiveInt
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueString:
                additionalProperties: false
                description: Extensions for valueString
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

```yaml
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueTime:
                    additionalProperties: false
                    description: Extensions for valueTime
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueUnsignedInt:
                    additionalProperties: false
                    description: Extensions for valueUnsignedInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueUri:
                    additionalProperties: false
                    description: Extensions for valueUri
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueUrl:
                    additionalProperties: false
                    description: Extensions for valueUrl
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueUuid:
                    additionalProperties: false
                    description: Extensions for valueUuid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

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extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
              url:
                description: Source of the definition for the extension code - a
logical name or a URL
                pattern: ^\S*$
                type: string
            valueAddress:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _city:
                  description: Extensions for city
                  type: string
                _country:
                  description: Extensions for country
                  type: string
                _district:
                  description: Extensions for district
                  type: string
                _line:
                  description: Extensions for line
                  items:
                  type: array
                _postalCode:
                  description: Extensions for postalCode
                  type: string
                _state:
                  description: Extensions for state
                  type: string
                _text:
                  description: Extensions for text
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                _use:
                  description: Extensions for use
                  type: string
                city:
                  description: 'The name of the city, town, suburb, village or
other community or delivery center'
                  type: string
                country:
                  description: Country - a nation as commonly understood or
generally accepted
                  type: string
                district:
                  description: The name of the administrative area (county)
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
```

```yaml
internal references). This may be any string value that does not contain spaces
                          type: string
                        line:
                          description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                          items:
                          type: array
                        period:
                          description: Time period when address was/is in use
                          type: string
                        postalCode:
                          description: A postal code designating a region defined by the
postal service
                          type: string
                        state:
                          description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                          type: string
                        text:
                          description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                          type: string
                        type:
                          description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                          enum:
                            - postal
                            - physical
                            - both
                        use:
                          description: The purpose of this address
                          enum:
                            - home
                            - work
                            - temp
                            - old
                            - billing
                      type: object
                  valueAge:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
```

```yaml
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          system:
                            description:
The identification of the system that provides the coded form of the unit
                            type: string
                          unit:
                            description: A human-readable form of the unit
                            type: string
                          value:
                            description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                            type: string
                        type: object
                    valueAnnotation:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _authorString:
                          description: Extensions for authorString
                          type: string
                        _text:
                          description: Extensions for text
                          type: string
                        _time:
                          description: Extensions for time
                          type: string
                        authorReference:
                          description: The individual responsible for making the
annotation
                          type: string
                        authorString:
                          description: The individual responsible for making the
annotation
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        text:
                          description: The text of the annotation in markdown format
                          type: string
                        time:
                          description: Indicates when this particular annotation was
made
                          type: string
                      type: object
                    valueAttachment:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _contentType:
                          description: Extensions for contentType
                          type: string
                        _creation:
                          description: Extensions for creation
                          type: string
                        _data:
                          description: Extensions for data
                          type: string
                        _hash:
                          description: Extensions for hash
                          type: string
                        _language:
                          description: Extensions for language
                          type: string
                        _size:
                          description: Extensions for size
                          type: string
                        _title:
                          description: Extensions for title
                          type: string
                        _url:
```

```yaml
                            description: Extensions for url
                            type: string
                          contentType:
                            description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                            type: string
                          creation:
                            description: The date that the attachment was first created
                            type: string
                          data:
                            description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                          hash:
                            description: The calculated hash of the data using SHA-1.
Represented using base64
                            type: string
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          language:
                            description: The human language of the content. The value can
be any valid value according to BCP 47
                            type: string
                          size:
                            description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                            type: string
                          title:
                            description: A label or set of text to display in place of the
data
                            type: string
                          url:
                            description: A location where the data can be accessed
                            type: string
                        type: object
                      valueBase64Binary:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                        type: string
                      valueBoolean:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^true|false$
                        type: boolean
                      valueCanonical:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^\S*$
                        type: string
                      valueCode:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^[^\s]+(\s[^\s]+)*$
                        type: string
                      valueCodeableConcept:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          _text:
                            description: Extensions for text
                            type: string
                          coding:
                            description: A reference to a code defined by a terminology
system
                            items:
                              type: array
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
definition of the extension'
                      items:
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  text:
                      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                      type: string
                  type: object
                valueCodeableReference:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    concept:
                      description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    reference:
                      description: A reference to a resource the provides exact
details about the information being referenced
                      type: string
                  type: object
                valueCoding:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _display:
                      description: Extensions for display
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _userSelected:
                      description: Extensions for userSelected
                      type: string
                    _version:
                      description: Extensions for version
                      type: string
                    code:
                      description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                      type: string
                    display:
                      description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the code system that defines the meaning of the symbol in the
```

```yaml
            code
                              type: string
                        userSelected:
                          description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                              type: string
                        version:
                          description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                              type: string
                      type: object
                    valueContactDetail:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          _name:
                            description: Extensions for name
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          name:
                            description: The name of an individual to contact
                            type: string
                          telecom:
                            description: The contact details for the individual (if a name
was provided) or the organization
                              items:
                              type: array
                      type: object
                    valueContactPoint:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          _rank:
                            description: Extensions for rank
                            type: string
                          _system:
                            description: Extensions for system
                            type: string
                          _use:
                            description: Extensions for use
                            type: string
                          _value:
                            description: Extensions for value
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                              type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                          period:
                            description: Time period when the contact point was/is in
use
                              type: string
                          rank:
                            description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                              type: string
                          system:
                            description: Telecommunications form for contact point - what
communications system is required to make use of the contact
```

```yaml
                        enum:
                          - phone
                          - fax
                          - email
                          - pager
                          - url
                          - sms
                          - other
                      use:
                        description: Identifies the purpose for the contact point
                        enum:
                          - home
                          - work
                          - temp
                          - old
                          - mobile
                      value:
                        description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                        type: string
                    type: object
                  valueContributor:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      contact:
                        description: Contact details to assist a user in finding and
communicating with the contributor
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      name:
                        description: The name of the individual or organization
responsible for the contribution
                        type: string
                      type:
                        description: The type of contributor
                        enum:
                          - author
                          - editor
                          - reviewer
                          - endorser
                    type: object
                  valueCount:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
```

```yaml
                      type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  system:
                    description:
The identification of the system that provides the coded form of the unit
                    type: string
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                    type: string
                type: object
              valueDataRequirement:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _limit:
                    description: Extensions for limit
                    type: string
                  _mustSupport:
                    description: Extensions for mustSupport
                    items:
                    type: array
                  _type:
                    description: Extensions for type
                    type: string
                  codeFilter:
                    description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                    items:
                    type: array
                  dateFilter:
                    description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  limit:
                    description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                    type: string
                  mustSupport:
                    description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
```

```
                      this element, only that the consuming system must understand the element and be
                      able to provide values for it if they are available. \n\nThe value of mustSupport
                      SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
                      consist only of identifiers, constant indexers, and .resolve() (see the [Simple
                      FHIRPath Profile](fhirpath.html#simple) for full details)"
                        items:
                          type: array
                        profile:
                          description: 'The profile of the required data, specified as
                      the uri of the profile definition'
                          items:
                          type: array
                        sort:
                          description: Specifies the order of the results to be
                      returned
                          items:
                          type: array
                        subjectCodeableConcept:
                          description: 'The intended subjects of the data requirement.
                      If this element is not provided, a Patient subject is assumed'
                          type: string
                        subjectReference:
                          description: 'The intended subjects of the data requirement.
                      If this element is not provided, a Patient subject is assumed'
                          type: string
                        type:
                          description: 'The type of the required data, specified as the
                      type name of a resource. For profiles, this value is set to the type of the base
                      resource of the profile'
                          type: string
                      type: object
                    valueDate:
                      description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
                  (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                    valueDateTime:
                      description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
                  (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
                  [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                      type: string
                    valueDecimal:
                      description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                      type: number
                    valueDistance:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _unit:
                          description: Extensions for unit
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        code:
                          description: A computer processable form of the unit in some
                      unit representation system
                          type: string
                        comparator:
                          description: 'How the value should be understood and
                      represented - whether the actual value is greater or less than the stated value
                      due to measurement issues; e.g. if the comparator is < , then the real value is <
                      stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                        extension:
                          description: 'May be used to represent additional information
                      that is not part of the basic definition of the element. To make the use of
```

```yaml
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description: >-
The identification of the system that provides the coded form of the unit
                  type: string
                unit:
                  description: A human-readable form of the unit
                  type: string
                value:
                  description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                  type: string
              type: object
            valueDosage:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _asNeededBoolean:
                  description: Extensions for asNeededBoolean
                  type: string
                _patientInstruction:
                  description: Extensions for patientInstruction
                  type: string
                _sequence:
                  description: Extensions for sequence
                  type: string
                _text:
                  description: Extensions for text
                  type: string
                additionalInstruction:
                  description: >-
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                  items:
                  type: array
                asNeededBoolean:
                  description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                  pattern: ^true|false$
                  type: boolean
                asNeededCodeableConcept:
                  description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                  type: string
                doseAndRate:
                  description: The amount of medication administered
                  items:
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                maxDosePerAdministration:
                  description: Upper limit on medication per administration
                  type: string
                maxDosePerLifetime:
                  description: Upper limit on medication per lifetime of the
patient
                  type: string
                maxDosePerPeriod:
                  description: Upper limit on medication per unit of time
                  type: string
                method:
```

```yaml
                    description: Technique for administering medication
                    type: string
                modifierExtension:
                    description: |-
                        May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                        Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                    items:
                    type: array
                patientInstruction:
                    description: Instructions in terms that are understood by the
patient or consumer
                    type: string
                route:
                    description: How drug should enter body
                    type: string
                sequence:
                    description: Indicates the order in which the dosage
instructions should be applied or interpreted
                    type: string
                site:
                    description: Body site to administer to
                    type: string
                text:
                    description: Free text dosage instructions e.g. SIG
                    type: string
                timing:
                    description: When medication should be administered
                    type: string
            type: object
        valueDuration:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
                _code:
                    description: Extensions for code
                    type: string
                _comparator:
                    description: Extensions for comparator
                    type: string
                _system:
                    description: Extensions for system
                    type: string
                _unit:
                    description: Extensions for unit
                    type: string
                _value:
                    description: Extensions for value
                    type: string
                code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                        - <
                        - <=
                        - '>='
                        - >
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
```

```yaml
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                        type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                valueExpression:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _description:
                      description: Extensions for description
                      type: string
                    _expression:
                      description: Extensions for expression
                      type: string
                    _language:
                      description: Extensions for language
                      type: string
                    _name:
                      description: Extensions for name
                      type: string
                    _reference:
                      description: Extensions for reference
                      type: string
                    description:
                      description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                      type: string
                    expression:
                      description: An expression in the specified language that
returns a value
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    language:
                      description: The media type of the language for the
expression
                      enum:
                        - text/cql
                        - text/fhirpath
                        - application/x-fhir-query
                        - text/cql-identifier
                        - text/cql-expression
                    name:
                      description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                      type: string
                    reference:
                      description: A URI that defines where the expression is
found
                      type: string
                  type: object
                valueHumanName:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _family:
                      description: Extensions for family
                      type: string
                    _given:
                      description: Extensions for given
                      items:
                      type: array
                    _prefix:
                      description: Extensions for prefix
                      items:
```

```yaml
                          type: array
                        _suffix:
                          description: Extensions for suffix
                          items:
                            type: array
                        _text:
                          description: Extensions for text
                          type: string
                        _use:
                          description: Extensions for use
                          type: string
                        extension:
                          description: 'May be used to represent additional information
                            that is not part of the basic definition of the element. To make the use of
                            extensions safe and manageable, there is a strict set of governance  applied to
                            the definition and use of extensions. Though any implementer can define an
                            extension, there is a set of requirements that SHALL be met as part of the
                            definition of the extension'
                          items:
                            type: array
                        family:
                          description:
                            The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
                            family name of a son is the first name of his father
                          type: string
                        given:
                          description: Given name
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
                            internal references). This may be any string value that does not contain spaces
                          type: string
                        period:
                          description: Indicates the period of time when this name was
                            valid for the named person
                          type: string
                        prefix:
                          description: 'Part of the name that is acquired as a title due
                            to academic, legal, employment or nobility status, etc. and that appears at the
                            start of the name'
                          items:
                            type: array
                        suffix:
                          description: 'Part of the name that is acquired as a title due
                            to academic, legal, employment or nobility status, etc. and that appears at the
                            end of the name'
                          items:
                            type: array
                        text:
                          description: Specifies the entire name as it should be
                            displayed e.g. on an application UI. This may be provided instead of or as well as
                            the specific parts
                          type: string
                        use:
                          description: Identifies the purpose for this name
                          enum:
                            - usual
                            - official
                            - temp
                            - nickname
                            - anonymous
                            - old
                            - maiden
                      type: object
                  valueId:
                    description: 'Value of extension - must be one of a constrained
                      set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[A-Za-z0-9\-\.]{1,64}$
                    type: string
                  valueIdentifier:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
                      set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _system:
                        description: Extensions for system
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      assigner:
                        description: Organization that issued/manages the
```

```
identifier
                        type: string
                extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                period:
                        description: Time period during which identifier is/was valid
for use
                        type: string
                system:
                        description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                        type: string
                type:
                        description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                        type: string
                use:
                        description: The purpose of this identifier
                        enum:
                            - usual
                            - official
                            - temp
                            - secondary
                            - old
                value:
                        description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                        type: string
                    type: object
                valueInstant:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                        type: string
                valueInteger:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: ^-?([0]|([1-9][0-9]*))$
                        type: number
                valueMarkdown:
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                valueMoney:
                    additionalProperties: false
                        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                        _currency:
                            description: Extensions for currency
                            type: string
                        _value:
                            description: Extensions for value
                            type: string
                        currency:
                            description: ISO 4217 Currency Code
                            type: string
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        value:
                            description: Numerical value (with implicit precision)
```

```yaml
                        type: string
                    type: object
                  valueOid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                  valueParameterDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _documentation:
                        description: Extensions for documentation
                        type: string
                      _max:
                        description: Extensions for max
                        type: string
                      _min:
                        description: Extensions for min
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      documentation:
                        description: A brief discussion of what the parameter is for
and how it is used by the module
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      max:
                        description: The maximum number of times this element is
permitted to appear in the request or response
                        type: string
                      min:
                        description: The minimum number of times this parameter SHALL
appear in the request or response
                        type: string
                      name:
                        description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                        type: string
                      profile:
                        description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                        type: string
                      type:
                        description: The type of the parameter
                        type: string
                      use:
                        description: Whether the parameter is input or output for the
module
                        type: string
                    type: object
                  valuePeriod:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _end:
                        description: Extensions for end
                        type: string
                      _start:
                        description: Extensions for start
                        type: string
                      end:
                        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
```

```yaml
                        that period is expected/planned to end at that time'
                            type: string
                          extension:
                            description: 'May be used to represent additional information
                        that is not part of the basic definition of the element. To make the use of
                        extensions safe and manageable, there is a strict set of governance  applied to
                        the definition and use of extensions. Though any implementer can define an
                        extension, there is a set of requirements that SHALL be met as part of the
                        definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
                        internal references). This may be any string value that does not contain spaces
                            type: string
                          start:
                            description: The start of the period. The boundary is
                        inclusive
                            type: string
                        type: object
                    valuePositiveInt:
                      description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                    valueQuantity:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
                  set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _unit:
                          description: Extensions for unit
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        code:
                          description: A computer processable form of the unit in some
                  unit representation system
                          type: string
                        comparator:
                          description: 'How the value should be understood and
                  represented - whether the actual value is greater or less than the stated value
                  due to measurement issues; e.g. if the comparator is < , then the real value is <
                  stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                        extension:
                          description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                          type: string
                        system:
                          description:
                  The identification of the system that provides the coded form of the unit
                          type: string
                        unit:
                          description: A human-readable form of the unit
                          type: string
                        value:
                          description: The value of the measured amount. The value
                  includes an implicit precision in the presentation of the value
                          type: string
                      type: object
                    valueRange:
                      additionalProperties: false
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      high:
                        description: The high limit. The boundary is inclusive
                        type: string
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      low:
                        description: The low limit. The boundary is inclusive
                        type: string
                    type: object
                  valueRatio:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      denominator:
                        description: The value of the denominator
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      numerator:
                        description: The value of the numerator
                        type: string
                    type: object
                  valueRatioRange:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      denominator:
                        description: The value of the denominator
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      highNumerator:
                        description: The value of the high limit numerator
                        type: string
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      lowNumerator:
                        description: The value of the low limit numerator
                        type: string
                    type: object
                  valueReference:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _display:
                        description: Extensions for display
                        type: string
                      _reference:
                        description: Extensions for reference
```

```yaml
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  display:
                    description: Plain text narrative that identifies the resource
in addition to the resource reference
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  identifier:
                    description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                    type: string
                  reference:
                    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                    type: string
                  type:
                    description: |-
                      The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                      The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                    type: string
                type: object
              valueRelatedArtifact:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _citation:
                    description: Extensions for citation
                    type: string
                  _display:
                    description: Extensions for display
                    type: string
                  _label:
                    description: Extensions for label
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  _url:
                    description: Extensions for url
                    type: string
                  citation:
                    description:
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
                    type: string
                  display:
                    description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
                    type: string
                  document:
                    description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
                    type: string
                  extension:
```

```yaml
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    label:
                      description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
                      type: string
                    resource:
                      description: 'The related resource, such as a library, value
set, profile, or other knowledge resource'
                      type: string
                    type:
                      description: The type of relationship to the related
artifact
                      enum:
                        - documentation
                        - justification
                        - citation
                        - predecessor
                        - successor
                        - derived-from
                        - depends-on
                        - composed-of
                    url:
                      description: A url for the artifact that can be followed to
access the actual content
                      type: string
                  type: object
                valueSampledData:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _data:
                      description: Extensions for data
                      type: string
                    _dimensions:
                      description: Extensions for dimensions
                      type: string
                    _factor:
                      description: Extensions for factor
                      type: string
                    _lowerLimit:
                      description: Extensions for lowerLimit
                      type: string
                    _period:
                      description: Extensions for period
                      type: string
                    _upperLimit:
                      description: Extensions for upperLimit
                      type: string
                    data:
                      description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                      type: string
                    dimensions:
                      description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    factor:
                      description:
A correction factor that is applied to the sampled data points before they are
added to the origin
                      type: string
                    id:
```

```yaml
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  lowerLimit:
                    description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                      type: string
                  origin:
                    description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                      type: string
                  period:
                    description: 'The length of time between sampling times,
measured in milliseconds'
                      type: string
                  upperLimit:
                    description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                      type: string
                required:
                  - origin
                type: object
              valueSignature:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _data:
                    description: Extensions for data
                    type: string
                  _sigFormat:
                    description: Extensions for sigFormat
                    type: string
                  _targetFormat:
                    description: Extensions for targetFormat
                    type: string
                  _when:
                    description: Extensions for when
                    type: string
                  data:
                    description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                      type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  onBehalfOf:
                    description: A reference to an application-usable description
of the identity that is represented by the signature
                      type: string
                  sigFormat:
                    description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                      type: string
                  targetFormat:
                    description:
A mime type that indicates the technical format of the target resources signed by
the signature
                      type: string
                  type:
                    description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                    items:
                      type: array
                  when:
                    description: When the digital signature was signed
                    type: string
                  who:
```

```yaml
                        description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                        type: string
                  required:
                    - type
                    - who
                  type: object
              valueString:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
              valueTime:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
                  type: string
              valueTiming:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _event:
                      description: Extensions for event
                      items:
                        type: array
                    code:
                      description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                      type: string
                    event:
                      description: Identifies specific times when the event
occurs
                      items:
                        type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    modifierExtension:
                      description: |-
                        May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                        Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                      items:
                        type: array
                    repeat:
                      description: A set of rules that describe when the event is
scheduled
                      type: string
                  type: object
              valueTriggerDefinition:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _name:
                      description: Extensions for name
                      type: string
                    _timingDate:
                      description: Extensions for timingDate
                      type: string
```

```yaml
                    _timingDateTime:
                      description: Extensions for timingDateTime
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    condition:
                      description: A boolean-valued expression that is evaluated in
the context of the container of the trigger definition and returns whether or not
the trigger fires
                      type: string
                    data:
                      description: 'The triggering data of the event (if this is a
data trigger). If more than one data is requirement is specified, then all the
data requirements must be true'
                      items:
                      type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    name:
                      description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
                      type: string
                    timingDate:
                      description: The timing of the event (if this is a periodic
trigger)
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                    timingDateTime:
                      description: The timing of the event (if this is a periodic
trigger)
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                      type: string
                    timingReference:
                      description: The timing of the event (if this is a periodic
trigger)
                      type: string
                    timingTiming:
                      description: The timing of the event (if this is a periodic
trigger)
                      type: string
                    type:
                      description: The type of triggering event
                      enum:
                        - named-event
                        - periodic
                        - data-changed
                        - data-added
                        - data-modified
                        - data-removed
                        - data-accessed
                        - data-access-ended
                  type: object
                valueUnsignedInt:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[0]|([1-9][0-9]*)$
                  type: number
                valueUri:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUrl:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^\S*$
                  type: string
                valueUsageContext:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
```

```yaml
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      code:
                        description: A code that identifies the type of context being
specified by this usage context
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      valueCodeableConcept:
                        description: >-
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                      valueQuantity:
                        description: >-
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                      valueRange:
                        description: >-
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                      valueReference:
                        description: >-
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                    required:
                      - code
                    type: object
                  valueUuid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                    type: string
                type: object
              type: array
          id:
            description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          identifier:
            additionalProperties: false
            description: 'An identifier for the target resource. This is used when
there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
            properties:
              _system:
                additionalProperties: false
                description: Extensions for system
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _use:
```

```yaml
              additionalProperties: false
              description: Extensions for use
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _value:
              additionalProperties: false
              description: Extensions for value
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            assigner:
              additionalProperties: false
              description: Organization that issued/manages the identifier
              properties:
                _display:
                  description: Extensions for display
                  type: string
                _reference:
                  description: Extensions for reference
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                display:
                  description:
Plain text narrative that identifies the resource in addition to the resource
reference
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                identifier:
                  description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                  type: string
                reference:
                  description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
```

```yaml
                resources"
                          type: string
                      type:
                        description: |-
                          The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                          The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                          type: string
                    type: object
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    additionalProperties: false
                    properties:
                      _url:
                        description: Extensions for url
                        type: string
                      _valueBase64Binary:
                        description: Extensions for valueBase64Binary
                        type: string
                      _valueBoolean:
                        description: Extensions for valueBoolean
                        type: string
                      _valueCanonical:
                        description: Extensions for valueCanonical
                        type: string
                      _valueCode:
                        description: Extensions for valueCode
                        type: string
                      _valueDate:
                        description: Extensions for valueDate
                        type: string
                      _valueDateTime:
                        description: Extensions for valueDateTime
                        type: string
                      _valueDecimal:
                        description: Extensions for valueDecimal
                        type: string
                      _valueId:
                        description: Extensions for valueId
                        type: string
                      _valueInstant:
                        description: Extensions for valueInstant
                        type: string
                      _valueInteger:
                        description: Extensions for valueInteger
                        type: string
                      _valueMarkdown:
                        description: Extensions for valueMarkdown
                        type: string
                      _valueOid:
                        description: Extensions for valueOid
                        type: string
                      _valuePositiveInt:
                        description: Extensions for valuePositiveInt
                        type: string
                      _valueString:
                        description: Extensions for valueString
                        type: string
                      _valueTime:
                        description: Extensions for valueTime
                        type: string
                      _valueUnsignedInt:
                        description: Extensions for valueUnsignedInt
                        type: string
                      _valueUri:
                        description: Extensions for valueUri
                        type: string
                      _valueUrl:
                        description: Extensions for valueUrl
                        type: string
                      _valueUuid:
                        description: Extensions for valueUuid
                        type: string
                      extension:
                        description: 'May be used to represent additional information
```

```yaml
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                          type: string
                        url:
                          description: Source of the definition for the extension code -
          a logical name or a URL
                          type: string
                        valueAddress:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueAge:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueAnnotation:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueAttachment:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueBase64Binary:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                          type: string
                        valueBoolean:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          pattern: ^true|false$
                          type: boolean
                        valueCanonical:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          pattern: ^\S*$
                          type: string
                        valueCode:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          pattern: ^[^\s]+(\s[^\s]+)*$
                          type: string
                        valueCodeableConcept:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueCodeableReference:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueCoding:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueContactDetail:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueContactPoint:
                          description: 'Value of extension - must be one of a
          constrained set of the data types (see [Extensibility](extensibility.html) for a
          list)'
                          type: string
                        valueContributor:
```

```yaml
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueCount:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueDataRequirement:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueDate:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                    valueDateTime:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                      type: string
                    valueDecimal:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                      type: number
                    valueDistance:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueDosage:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueDuration:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueExpression:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueHumanName:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueId:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[A-Za-z0-9\-\.]{1,64}$
                      type: string
                    valueIdentifier:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueInstant:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                      type: string
                    valueInteger:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^-?([0]|([1-9][0-9]*))$
                      type: number
                    valueMarkdown:
```

```yaml
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueMoney:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueOid:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                  valueParameterDefinition:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valuePeriod:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valuePositiveInt:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^[1-9][0-9]*$
                    type: number
                  valueQuantity:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueRange:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueRatio:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueRatioRange:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueReference:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueRelatedArtifact:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueSampledData:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueSignature:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueString:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueTime:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                    type: string
                  valueTiming:
```

```yaml
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueTriggerDefinition:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueUnsignedInt:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  pattern: ^[0]|([1-9][0-9]*)$
                  type: number
                valueUri:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  pattern: ^\S*$
                  type: string
                valueUrl:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  pattern: ^\S*$
                  type: string
                valueUsageContext:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueUuid:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                  type: string
              type: object
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        period:
          additionalProperties: false
          description: Time period during which identifier is/was valid for
use
          properties:
            _end:
              description: Extensions for end
              type: string
            _start:
              description: Extensions for start
              type: string
            end:
              description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            start:
              description: The start of the period. The boundary is
inclusive
              type: string
          type: object
        system:
          description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
          pattern: ^\S*$
```

```yaml
                    type: string
                type:
                  additionalProperties: false
                  description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
                  properties:
                    _text:
                      description: Extensions for text
                      type: string
                    coding:
                      description: A reference to a code defined by a terminology
system
                      items:
                        type: string
                      type: array
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    text:
                      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                      type: string
                  type: object
                use:
                  description: The purpose of this identifier
                  enum:
                    - usual
                    - official
                    - temp
                    - secondary
                    - old
                value:
                  description: The portion of the identifier typically relevant to the
user and which is unique within the context of the system
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
              type: object
          reference:
            description: "A reference to a location at which the other resource is
found. The reference may be a relative reference, in which case it is relative to
the service base URL, or an absolute URL that resolves to the location where the
resource is found. The reference may be version specific or not. If the reference
is not to a FHIR RESTful server, then it should be assumed to be version specific.
Internal fragment references (start with '#') refer to contained resources"
            pattern: '^[ \r\n\t\S]+$'
            type: string
          type:
            description: |-
              The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

              The type is the Canonical URL of Resource Definition that is the type
this reference refers to. References are URLs that are relative to http://hl7.org/
fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/fhir/
StructureDefinition/Patient. Absolute URLs are only allowed for logical models (and
can only be used in references in logical models, not resources)
            pattern: ^\S*$
            type: string
        type: object
        x-ngsi:
          type: Property
    partOf:
      additionalProperties: false
      description: Reference to a parent Account
      properties:
        _display:
          additionalProperties: false
          description: Extensions for display
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
```

```yaml
              there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                      items:
                        additionalProperties: false
                        properties:
                          _url:
                            description: Extensions for url
                            type: string
                          _valueBase64Binary:
                            description: Extensions for valueBase64Binary
                            type: string
                          _valueBoolean:
                            description: Extensions for valueBoolean
                            type: string
                          _valueCanonical:
                            description: Extensions for valueCanonical
                            type: string
                          _valueCode:
                            description: Extensions for valueCode
                            type: string
                          _valueDate:
                            description: Extensions for valueDate
                            type: string
                          _valueDateTime:
                            description: Extensions for valueDateTime
                            type: string
                          _valueDecimal:
                            description: Extensions for valueDecimal
                            type: string
                          _valueId:
                            description: Extensions for valueId
                            type: string
                          _valueInstant:
                            description: Extensions for valueInstant
                            type: string
                          _valueInteger:
                            description: Extensions for valueInteger
                            type: string
                          _valueMarkdown:
                            description: Extensions for valueMarkdown
                            type: string
                          _valueOid:
                            description: Extensions for valueOid
                            type: string
                          _valuePositiveInt:
                            description: Extensions for valuePositiveInt
                            type: string
                          _valueString:
                            description: Extensions for valueString
                            type: string
                          _valueTime:
                            description: Extensions for valueTime
                            type: string
                          _valueUnsignedInt:
                            description: Extensions for valueUnsignedInt
                            type: string
                          _valueUri:
                            description: Extensions for valueUri
                            type: string
                          _valueUrl:
                            description: Extensions for valueUrl
                            type: string
                          _valueUuid:
                            description: Extensions for valueUuid
                            type: string
                          extension:
                            description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                            items:
                              type: string
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                            type: string
                          url:
                            description: Source of the definition for the extension code -
              a logical name or a URL
                            type: string
                          valueAddress:
                            description: 'Value of extension - must be one of a
              constrained set of the data types (see [Extensibility](extensibility.html) for a
```

```yaml
list)'
                              type: string
                    valueAge:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueAnnotation:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueAttachment:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueBase64Binary:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                              type: string
                    valueBoolean:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^true|false$
                              type: boolean
                    valueCanonical:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                              type: string
                    valueCode:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[^\s]+(\s[^\s]+)*$
                              type: string
                    valueCodeableConcept:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueCodeableReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueCoding:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueContactDetail:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueContactPoint:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueContributor:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueCount:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueDataRequirement:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                              type: string
                    valueDate:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
```

```
                                (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                              type: string
                        valueDateTime:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                          type: string
                        valueDecimal:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                          type: number
                        valueDistance:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueDosage:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueDuration:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueExpression:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueHumanName:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueId:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^[A-Za-z0-9\-\.]{1,64}$
                          type: string
                        valueIdentifier:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueInstant:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                          type: string
                        valueInteger:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^-?([0]|([1-9][0-9]*))$
                          type: number
                        valueMarkdown:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        valueMoney:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueOid:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                          type: string
                        valueParameterDefinition:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
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list)'
                          type: string
                  valuePeriod:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valuePositiveInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^[1-9][0-9]*$
                          type: number
                  valueQuantity:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueRatio:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueRatioRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueRelatedArtifact:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueSampledData:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueSignature:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueString:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                  valueTime:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                          type: string
                  valueTiming:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueTriggerDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                  valueUnsignedInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^[0]|([1-9][0-9]*)$
                          type: number
                  valueUri:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
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                            pattern: ^\S*$
                            type: string
                          valueUrl:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^\S*$
                            type: string
                          valueUsageContext:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                          valueUuid:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                            type: string
                        type: object
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                type: object
              _reference:
                additionalProperties: false
                description: Extensions for reference
                properties:
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      additionalProperties: false
                      properties:
                        _url:
                          description: Extensions for url
                          type: string
                        _valueBase64Binary:
                          description: Extensions for valueBase64Binary
                          type: string
                        _valueBoolean:
                          description: Extensions for valueBoolean
                          type: string
                        _valueCanonical:
                          description: Extensions for valueCanonical
                          type: string
                        _valueCode:
                          description: Extensions for valueCode
                          type: string
                        _valueDate:
                          description: Extensions for valueDate
                          type: string
                        _valueDateTime:
                          description: Extensions for valueDateTime
                          type: string
                        _valueDecimal:
                          description: Extensions for valueDecimal
                          type: string
                        _valueId:
                          description: Extensions for valueId
                          type: string
                        _valueInstant:
                          description: Extensions for valueInstant
                          type: string
                        _valueInteger:
                          description: Extensions for valueInteger
                          type: string
                        _valueMarkdown:
                          description: Extensions for valueMarkdown
                          type: string
                        _valueOid:
                          description: Extensions for valueOid
                          type: string
                        _valuePositiveInt:
                          description: Extensions for valuePositiveInt
                          type: string
                        _valueString:
                          description: Extensions for valueString
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                        type: string
                    _valueTime:
                      description: Extensions for valueTime
                      type: string
                    _valueUnsignedInt:
                      description: Extensions for valueUnsignedInt
                      type: string
                    _valueUri:
                      description: Extensions for valueUri
                      type: string
                    _valueUrl:
                      description: Extensions for valueUrl
                      type: string
                    _valueUuid:
                      description: Extensions for valueUuid
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    url:
                      description: Source of the definition for the extension code -
a logical name or a URL
                      type: string
                    valueAddress:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAge:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAnnotation:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAttachment:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueBase64Binary:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                      type: string
                    valueBoolean:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^true|false$
                      type: boolean
                    valueCanonical:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                    valueCode:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[^\s]+(\s[^\s]+)*$
                      type: string
                    valueCodeableConcept:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueCodeableReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
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list)'
                        type: string
                valueCoding:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueContactDetail:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueContactPoint:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueContributor:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueCount:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueDataRequirement:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueDate:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                        type: string
                valueDateTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                        type: string
                valueDecimal:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                        type: number
                valueDistance:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueDosage:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueDuration:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueExpression:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueHumanName:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                valueId:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[A-Za-z0-9\-\.]{1,64}$
                        type: string
                valueIdentifier:
                        description: 'Value of extension - must be one of a
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                            constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueInstant:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                            type: string
                      valueInteger:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^-?([0]|([1-9][0-9]*))$
                            type: number
                      valueMarkdown:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: '^[ \r\n\t\S]+$'
                            type: string
                      valueMoney:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueOid:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                            type: string
                      valueParameterDefinition:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valuePeriod:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valuePositiveInt:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^[1-9][0-9]*$
                            type: number
                      valueQuantity:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueRange:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueRatio:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueRatioRange:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueReference:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueRelatedArtifact:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueSampledData:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                      valueSignature:
```

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                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueString:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                      valueTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                        type: string
                      valueTiming:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueTriggerDefinition:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueUnsignedInt:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[0]|([1-9][0-9]*)$
                        type: number
                      valueUri:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                      valueUrl:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                      valueUsageContext:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueUuid:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                        type: string
                  type: object
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
        _type:
          additionalProperties: false
          description: Extensions for type
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    description: Extensions for url
                    type: string
                  _valueBase64Binary:
                    description: Extensions for valueBase64Binary
                    type: string
                  _valueBoolean:
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                  description: Extensions for valueBoolean
                  type: string
                _valueCanonical:
                  description: Extensions for valueCanonical
                  type: string
                _valueCode:
                  description: Extensions for valueCode
                  type: string
                _valueDate:
                  description: Extensions for valueDate
                  type: string
                _valueDateTime:
                  description: Extensions for valueDateTime
                  type: string
                _valueDecimal:
                  description: Extensions for valueDecimal
                  type: string
                _valueId:
                  description: Extensions for valueId
                  type: string
                _valueInstant:
                  description: Extensions for valueInstant
                  type: string
                _valueInteger:
                  description: Extensions for valueInteger
                  type: string
                _valueMarkdown:
                  description: Extensions for valueMarkdown
                  type: string
                _valueOid:
                  description: Extensions for valueOid
                  type: string
                _valuePositiveInt:
                  description: Extensions for valuePositiveInt
                  type: string
                _valueString:
                  description: Extensions for valueString
                  type: string
                _valueTime:
                  description: Extensions for valueTime
                  type: string
                _valueUnsignedInt:
                  description: Extensions for valueUnsignedInt
                  type: string
                _valueUri:
                  description: Extensions for valueUri
                  type: string
                _valueUrl:
                  description: Extensions for valueUrl
                  type: string
                _valueUuid:
                  description: Extensions for valueUuid
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                url:
                  description: Source of the definition for the extension code -
a logical name or a URL
                  type: string
                valueAddress:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueAge:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
                valueAnnotation:
                  description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                  type: string
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                      valueAttachment:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueBase64Binary:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                        type: string
                      valueBoolean:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^true|false$
                        type: boolean
                      valueCanonical:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                      valueCode:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[^\s]+(\s[^\s]+)*$
                        type: string
                      valueCodeableConcept:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueCodeableReference:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueCoding:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueContactDetail:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueContactPoint:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueContributor:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueCount:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDataRequirement:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueDate:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                        type: string
                      valueDateTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                        type: string
                      valueDecimal:
                        description: 'Value of extension - must be one of a
```

```
                constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                            type: number
                        valueDistance:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valueDosage:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valueDuration:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valueExpression:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valueHumanName:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valueId:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            pattern: ^[A-Za-z0-9\-\.]{1,64}$
                            type: string
                        valueIdentifier:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valueInstant:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
        (0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
        [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                            type: string
                        valueInteger:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            pattern: ^-?([0]|([1-9][0-9]*))$
                            type: number
                        valueMarkdown:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            pattern: '^[ \r\n\t\S]+$'
                            type: string
                        valueMoney:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valueOid:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                            type: string
                        valueParameterDefinition:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valuePeriod:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            type: string
                        valuePositiveInt:
                            description: 'Value of extension - must be one of a
        constrained set of the data types (see [Extensibility](extensibility.html) for a
        list)'
                            pattern: ^[1-9][0-9]*$
```

```yaml
                        type: number
                  valueQuantity:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueRange:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueRatio:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueRatioRange:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueReference:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueRelatedArtifact:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueSampledData:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueSignature:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueString:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                  valueTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                        type: string
                  valueTiming:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueTriggerDefinition:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueUnsignedInt:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[0]|([1-9][0-9]*)$
                        type: number
                  valueUri:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                  valueUrl:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                  valueUsageContext:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```yaml
                        type: string
                    valueUuid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                      type: string
                  type: object
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
        display:
          description: Plain text narrative that identifies the resource in
addition to the resource reference
          pattern: '^[ \r\n\t\S]+$'
          type: string
        extension:
          description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            additionalProperties: false
            properties:
              _url:
                additionalProperties: false
                description: Extensions for url
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueBase64Binary:
                additionalProperties: false
                description: Extensions for valueBase64Binary
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueBoolean:
                additionalProperties: false
                description: Extensions for valueBoolean
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
              _valueCanonical:
```

```yaml
                      additionalProperties: false
                      description: Extensions for valueCanonical
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueCode:
                      additionalProperties: false
                      description: Extensions for valueCode
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueDate:
                      additionalProperties: false
                      description: Extensions for valueDate
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueDateTime:
                      additionalProperties: false
                      description: Extensions for valueDateTime
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueDecimal:
                      additionalProperties: false
                      description: Extensions for valueDecimal
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
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                  internal references). This may be any string value that does not contain spaces
                            type: string
                    type: object
                  _valueId:
                    additionalProperties: false
                    description: Extensions for valueId
                    properties:
                      extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                    type: object
                  _valueInstant:
                    additionalProperties: false
                    description: Extensions for valueInstant
                    properties:
                      extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                    type: object
                  _valueInteger:
                    additionalProperties: false
                    description: Extensions for valueInteger
                    properties:
                      extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                    type: object
                  _valueMarkdown:
                    additionalProperties: false
                    description: Extensions for valueMarkdown
                    properties:
                      extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                    type: object
                  _valueOid:
                    additionalProperties: false
                    description: Extensions for valueOid
                    properties:
                      extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

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                    items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valuePositiveInt:
                  additionalProperties: false
                  description: Extensions for valuePositiveInt
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueString:
                  additionalProperties: false
                  description: Extensions for valueString
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueTime:
                  additionalProperties: false
                  description: Extensions for valueTime
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueUnsignedInt:
                  additionalProperties: false
                  description: Extensions for valueUnsignedInt
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                _valueUri:
                  additionalProperties: false
                  description: Extensions for valueUri
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

```yaml
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                _valueUrl:
                  additionalProperties: false
                  description: Extensions for valueUrl
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                _valueUuid:
                  additionalProperties: false
                  description: Extensions for valueUuid
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                  type: object
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                url:
                  description: Source of the definition for the extension code - a
logical name or a URL
                  pattern: ^\S*$
                  type: string
                valueAddress:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _city:
                      description: Extensions for city
                      type: string
                    _country:
                      description: Extensions for country
                      type: string
                    _district:
                      description: Extensions for district
                      type: string
                    _line:
                      description: Extensions for line
                      items:
                      type: array
                    _postalCode:
```

```yaml
                          description: Extensions for postalCode
                          type: string
                        _state:
                          description: Extensions for state
                          type: string
                        _text:
                          description: Extensions for text
                          type: string
                        _type:
                          description: Extensions for type
                          type: string
                        _use:
                          description: Extensions for use
                          type: string
                        city:
                          description: 'The name of the city, town, suburb, village or
other community or delivery center'
                          type: string
                        country:
                          description: Country - a nation as commonly understood or
generally accepted
                          type: string
                        district:
                          description: The name of the administrative area (county)
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        line:
                          description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                          items:
                          type: array
                        period:
                          description: Time period when address was/is in use
                          type: string
                        postalCode:
                          description: A postal code designating a region defined by the
postal service
                          type: string
                        state:
                          description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                          type: string
                        text:
                          description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                          type: string
                        type:
                          description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                          enum:
                            - postal
                            - physical
                            - both
                        use:
                          description: The purpose of this address
                          enum:
                            - home
                            - work
                            - temp
                            - old
                            - billing
                    type: object
                  valueAge:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
```

```yaml
                            _comparator:
                              description: Extensions for comparator
                              type: string
                            _system:
                              description: Extensions for system
                              type: string
                            _unit:
                              description: Extensions for unit
                              type: string
                            _value:
                              description: Extensions for value
                              type: string
                            code:
                              description: A computer processable form of the unit in some
unit representation system
                              type: string
                            comparator:
                              description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                              enum:
                                - <
                                - <=
                                - '>='
                                - >
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                            system:
                              description:
The identification of the system that provides the coded form of the unit
                              type: string
                            unit:
                              description: A human-readable form of the unit
                              type: string
                            value:
                              description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                              type: string
                        type: object
                    valueAnnotation:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _authorString:
                          description: Extensions for authorString
                          type: string
                        _text:
                          description: Extensions for text
                          type: string
                        _time:
                          description: Extensions for time
                          type: string
                        authorReference:
                          description: The individual responsible for making the
annotation
                          type: string
                        authorString:
                          description: The individual responsible for making the
annotation
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

```yaml
                            type: string
                        text:
                          description: The text of the annotation in markdown format
                          type: string
                        time:
                          description: Indicates when this particular annotation was
made
                          type: string
                      type: object
                  valueAttachment:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _contentType:
                        description: Extensions for contentType
                        type: string
                      _creation:
                        description: Extensions for creation
                        type: string
                      _data:
                        description: Extensions for data
                        type: string
                      _hash:
                        description: Extensions for hash
                        type: string
                      _language:
                        description: Extensions for language
                        type: string
                      _size:
                        description: Extensions for size
                        type: string
                      _title:
                        description: Extensions for title
                        type: string
                      _url:
                        description: Extensions for url
                        type: string
                      contentType:
                        description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                        type: string
                      creation:
                        description: The date that the attachment was first created
                        type: string
                      data:
                        description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      hash:
                        description: The calculated hash of the data using SHA-1.
Represented using base64
                        type: string
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      language:
                        description: The human language of the content. The value can
be any valid value according to BCP 47
                        type: string
                      size:
                        description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                        type: string
                      title:
                        description: A label or set of text to display in place of the
data
                        type: string
                      url:
                        description: A location where the data can be accessed
                        type: string
                    type: object
                  valueBase64Binary:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
                    pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                    type: string
                valueBoolean:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^true|false$
                    type: boolean
                valueCanonical:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                valueCode:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                valueCodeableConcept:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
system
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                valueCodeableReference:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      concept:
                        description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      reference:
                        description: A reference to a resource the provides exact
details about the information being referenced
                        type: string
                    type: object
                valueCoding:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _display:
```

```yaml
                        description: Extensions for display
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _userSelected:
                        description: Extensions for userSelected
                        type: string
                      _version:
                        description: Extensions for version
                        type: string
                      code:
                        description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                        type: string
                      display:
                        description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the code system that defines the meaning of the symbol in the
code
                        type: string
                      userSelected:
                        description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                        type: string
                      version:
                        description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                        type: string
                    type: object
                  valueContactDetail:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      name:
                        description: The name of an individual to contact
                        type: string
                      telecom:
                        description: The contact details for the individual (if a name
was provided) or the organization
                        items:
                        type: array
                    type: object
                  valueContactPoint:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _rank:
```

```yaml
                            description: Extensions for rank
                            type: string
                          _system:
                            description: Extensions for system
                            type: string
                          _use:
                            description: Extensions for use
                            type: string
                          _value:
                            description: Extensions for value
                            type: string
                          extension:
                            description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance  applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
                            type: string
                          period:
                            description: Time period when the contact point was/is in
            use
                            type: string
                          rank:
                            description: Specifies a preferred order in which to use a set
            of contacts. ContactPoints with lower rank values are more preferred than those
            with higher rank values
                            type: string
                          system:
                            description: Telecommunications form for contact point - what
            communications system is required to make use of the contact
                            enum:
                              - phone
                              - fax
                              - email
                              - pager
                              - url
                              - sms
                              - other
                          use:
                            description: Identifies the purpose for the contact point
                            enum:
                              - home
                              - work
                              - temp
                              - old
                              - mobile
                          value:
                            description: 'The actual contact point details, in a form that
            is meaningful to the designated communication system (i.e. phone number or email
            address)'
                            type: string
                        type: object
                    valueContributor:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
            set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _name:
                          description: Extensions for name
                          type: string
                        _type:
                          description: Extensions for type
                          type: string
                        contact:
                          description: Contact details to assist a user in finding and
            communicating with the contributor
                          items:
                          type: array
                        extension:
                          description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance  applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
            internal references). This may be any string value that does not contain spaces
```

```yaml
                            type: string
                      name:
                        description: The name of the individual or organization
responsible for the contribution
                        type: string
                      type:
                        description: The type of contributor
                        enum:
                            - author
                            - editor
                            - reviewer
                            - endorser
                  type: object
                valueCount:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                          - <
                          - <=
                          - '>='
                          - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                valueDataRequirement:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _limit:
                      description: Extensions for limit
                      type: string
                    _mustSupport:
                      description: Extensions for mustSupport
                      items:
                      type: array
                    _type:
                      description: Extensions for type
```

```yaml
                    type: string
                codeFilter:
                    description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                    items:
                        type: array
                dateFilter:
                    description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                    items:
                        type: array
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                        type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                limit:
                    description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                    type: string
                mustSupport:
                    description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
                    items:
                        type: array
                profile:
                    description: 'The profile of the required data, specified as
the uri of the profile definition'
                    items:
                        type: array
                sort:
                    description: Specifies the order of the results to be
returned
                    items:
                        type: array
                subjectCodeableConcept:
                    description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                    type: string
                subjectReference:
                    description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                    type: string
                type:
                    description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                    type: string
            type: object
        valueDate:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
            type: string
        valueDateTime:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
            type: string
        valueDecimal:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
            type: number
        valueDistance:
```

```yaml
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  valueDosage:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _asNeededBoolean:
                        description: Extensions for asNeededBoolean
                        type: string
                      _patientInstruction:
                        description: Extensions for patientInstruction
                        type: string
                      _sequence:
                        description: Extensions for sequence
                        type: string
                      _text:
                        description: Extensions for text
                        type: string
                      additionalInstruction:
                        description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                        items:
                        type: array
                      asNeededBoolean:
                        description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
```

```yaml
                      the precondition for taking the Medication (CodeableConcept)'
                            pattern: ^true|false$
                            type: boolean
                        asNeededCodeableConcept:
                          description: 'Indicates whether the Medication is only taken
              when needed within a specific dosing schedule (Boolean option), or it indicates
              the precondition for taking the Medication (CodeableConcept)'
                            type: string
                        doseAndRate:
                          description: The amount of medication administered
                          items:
                          type: array
                        extension:
                          description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                            items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                            type: string
                        maxDosePerAdministration:
                          description: Upper limit on medication per administration
                          type: string
                        maxDosePerLifetime:
                          description: Upper limit on medication per lifetime of the
              patient
                            type: string
                        maxDosePerPeriod:
                          description: Upper limit on medication per unit of time
                          type: string
                        method:
                          description: Technique for administering medication
                          type: string
                        modifierExtension:
                          description: |-
                            May be used to represent additional information that is not
              part of the basic definition of the element and that modifies the understanding of
              the element in which it is contained and/or the understanding of the containing
              element's descendants. Usually modifier elements provide negation or qualification.
              To make the use of extensions safe and manageable, there is a strict set of
              governance applied to the definition and use of extensions. Though any implementer
              can define an extension, there is a set of requirements that SHALL be met as part
              of the definition of the extension. Applications processing a resource are required
              to check for modifier extensions.
                            Modifier extensions SHALL NOT change the meaning of any
              elements on Resource or DomainResource (including cannot change the meaning of
              modifierExtension itself)
                            items:
                            type: array
                        patientInstruction:
                          description: Instructions in terms that are understood by the
              patient or consumer
                            type: string
                        route:
                          description: How drug should enter body
                          type: string
                        sequence:
                          description: Indicates the order in which the dosage
              instructions should be applied or interpreted
                            type: string
                        site:
                          description: Body site to administer to
                          type: string
                        text:
                          description: Free text dosage instructions e.g. SIG
                          type: string
                        timing:
                          description: When medication should be administered
                          type: string
                    type: object
                  valueDuration:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
              set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
```

```yaml
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                valueExpression:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _description:
                        description: Extensions for description
                        type: string
                      _expression:
                        description: Extensions for expression
                        type: string
                      _language:
                        description: Extensions for language
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      description:
                        description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                        type: string
                      expression:
                        description: An expression in the specified language that
returns a value
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
```

```yaml
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      language:
                            description: The media type of the language for the
expression
                            enum:
                              - text/cql
                              - text/fhirpath
                              - application/x-fhir-query
                              - text/cql-identifier
                              - text/cql-expression
                      name:
                            description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                            type: string
                      reference:
                            description: A URI that defines where the expression is
found
                            type: string
                  type: object
                valueHumanName:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _family:
                        description: Extensions for family
                        type: string
                      _given:
                        description: Extensions for given
                        items:
                        type: array
                      _prefix:
                        description: Extensions for prefix
                        items:
                        type: array
                      _suffix:
                        description: Extensions for suffix
                        items:
                        type: array
                      _text:
                        description: Extensions for text
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      family:
                        description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
                        type: string
                      given:
                        description: Given name
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      period:
                        description: Indicates the period of time when this name was
valid for the named person
                        type: string
                      prefix:
                        description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                        items:
                        type: array
                      suffix:
                        description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                        items:
                        type: array
                      text:
```

```yaml
                        description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                        type: string
                      use:
                        description: Identifies the purpose for this name
                        enum:
                          - usual
                          - official
                          - temp
                          - nickname
                          - anonymous
                          - old
                          - maiden
                    type: object
                valueId:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^[A-Za-z0-9\-\.]{1,64}$
                  type: string
                valueIdentifier:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _system:
                      description: Extensions for system
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    assigner:
                      description: Organization that issued/manages the
identifier
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Time period during which identifier is/was valid
for use
                      type: string
                    system:
                      description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                      type: string
                    type:
                      description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                      type: string
                    use:
                      description: The purpose of this identifier
                      enum:
                        - usual
                        - official
                        - temp
                        - secondary
                        - old
                    value:
                      description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                      type: string
                  type: object
                valueInstant:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                  type: string
                valueInteger:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
```

```yaml
                    pattern: ^-?([0]|([1-9][0-9]*))$
                    type: number
                valueMarkdown:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                valueMoney:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _currency:
                        description: Extensions for currency
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      currency:
                        description: ISO 4217 Currency Code
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      value:
                        description: Numerical value (with implicit precision)
                        type: string
                    type: object
                valueOid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                valueParameterDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _documentation:
                        description: Extensions for documentation
                        type: string
                      _max:
                        description: Extensions for max
                        type: string
                      _min:
                        description: Extensions for min
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      documentation:
                        description: A brief discussion of what the parameter is for
and how it is used by the module
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      max:
                        description: The maximum number of times this element is
permitted to appear in the request or response
```

```yaml
                    type: string
                  min:
                    description: The minimum number of times this parameter SHALL
appear in the request or response
                    type: string
                  name:
                    description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                    type: string
                  profile:
                    description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                    type: string
                  type:
                    description: The type of the parameter
                    type: string
                  use:
                    description: Whether the parameter is input or output for the
module
                    type: string
                type: object
              valuePeriod:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _end:
                    description: Extensions for end
                    type: string
                  _start:
                    description: Extensions for start
                    type: string
                  end:
                    description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  start:
                    description: The start of the period. The boundary is
inclusive
                    type: string
                type: object
              valuePositiveInt:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[1-9][0-9]*$
                type: number
              valueQuantity:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
```

```yaml
                          description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      system:
                        description:
The identification of the system that provides the coded form of the unit
                        type: string
                      unit:
                        description: A human-readable form of the unit
                        type: string
                      value:
                        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                        type: string
                    type: object
                  valueRange:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      high:
                        description: The high limit. The boundary is inclusive
                        type: string
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      low:
                        description: The low limit. The boundary is inclusive
                        type: string
                    type: object
                  valueRatio:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      denominator:
                        description: The value of the denominator
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      numerator:
                        description: The value of the numerator
                        type: string
                    type: object
                  valueRatioRange:
                    additionalProperties: false
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      denominator:
                        description: The value of the denominator
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      highNumerator:
                        description: The value of the high limit numerator
                        type: string
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      lowNumerator:
                        description: The value of the low limit numerator
                        type: string
                    type: object
                  valueReference:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _display:
                        description: Extensions for display
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      display:
                        description: Plain text narrative that identifies the resource
in addition to the resource reference
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      identifier:
                        description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                        type: string
                      reference:
                        description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                        type: string
                      type:
                        description: |-
                          The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                          The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
```

```yaml
                        type: string
                    type: object
                  valueRelatedArtifact:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _citation:
                        description: Extensions for citation
                        type: string
                      _display:
                        description: Extensions for display
                        type: string
                      _label:
                        description: Extensions for label
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _url:
                        description: Extensions for url
                        type: string
                      citation:
                        description:
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
                        type: string
                      display:
                        description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
                        type: string
                      document:
                        description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      label:
                        description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
                        type: string
                      resource:
                        description: 'The related resource, such as a library, value
set, profile, or other knowledge resource'
                        type: string
                      type:
                        description: The type of relationship to the related
artifact
                        enum:
                          - documentation
                          - justification
                          - citation
                          - predecessor
                          - successor
                          - derived-from
                          - depends-on
                          - composed-of
                      url:
                        description: A url for the artifact that can be followed to
access the actual content
                        type: string
                    type: object
                  valueSampledData:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _data:
                        description: Extensions for data
                        type: string
                      _dimensions:
                        description: Extensions for dimensions
                        type: string
                      _factor:
                        description: Extensions for factor
```

```yaml
                          type: string
                        _lowerLimit:
                          description: Extensions for lowerLimit
                          type: string
                        _period:
                          description: Extensions for period
                          type: string
                        _upperLimit:
                          description: Extensions for upperLimit
                          type: string
                        data:
                          description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                          type: string
                        dimensions:
                          description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        factor:
                          description:
A correction factor that is applied to the sampled data points before they are
added to the origin
                          type: string
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        lowerLimit:
                          description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                          type: string
                        origin:
                          description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                          type: string
                        period:
                          description: 'The length of time between sampling times,
measured in milliseconds'
                          type: string
                        upperLimit:
                          description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                          type: string
                      required:
                        - origin
                      type: object
                    valueSignature:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _data:
                          description: Extensions for data
                          type: string
                        _sigFormat:
                          description: Extensions for sigFormat
                          type: string
                        _targetFormat:
                          description: Extensions for targetFormat
                          type: string
                        _when:
                          description: Extensions for when
                          type: string
                        data:
                          description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

```yaml
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                onBehalfOf:
                  description: A reference to an application-usable description
of the identity that is represented by the signature
                  type: string
                sigFormat:
                  description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                  type: string
                targetFormat:
                  description:
A mime type that indicates the technical format of the target resources signed by
the signature
                  type: string
                type:
                  description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                  items:
                    type: array
                when:
                  description: When the digital signature was signed
                  type: string
                who:
                  description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                  type: string
              required:
                - type
                - who
              type: object
          valueString:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: '^[ \r\n\t\S]+$'
            type: string
          valueTime:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
            type: string
          valueTiming:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _event:
                description: Extensions for event
                items:
                  type: array
              code:
                description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                type: string
              event:
                description: Identifies specific times when the event
occurs
                items:
                  type: array
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
```

```yaml
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                            modifierExtension:
                              description: |-
                                May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                                Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                              items:
                              type: array
                            repeat:
                              description: A set of rules that describe when the event is
scheduled
                              type: string
                          type: object
                    valueTriggerDefinition:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _name:
                          description: Extensions for name
                          type: string
                        _timingDate:
                          description: Extensions for timingDate
                          type: string
                        _timingDateTime:
                          description: Extensions for timingDateTime
                          type: string
                        _type:
                          description: Extensions for type
                          type: string
                        condition:
                          description: A boolean-valued expression that is evaluated in
the context of the container of the trigger definition and returns whether or not
the trigger fires
                          type: string
                        data:
                          description: 'The triggering data of the event (if this is a
data trigger). If more than one data is requirement is specified, then all the
data requirements must be true'
                          items:
                          type: array
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        name:
                          description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
                          type: string
                        timingDate:
                          description: The timing of the event (if this is a periodic
trigger)
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                          type: string
                        timingDateTime:
                          description: The timing of the event (if this is a periodic
trigger)
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                          type: string
                        timingReference:
                          description: The timing of the event (if this is a periodic
```

```yaml
trigger)
                              type: string
                    timingTiming:
                      description: The timing of the event (if this is a periodic
trigger)
                      type: string
                    type:
                      description: The type of triggering event
                      enum:
                        - named-event
                        - periodic
                        - data-changed
                        - data-added
                        - data-modified
                        - data-removed
                        - data-accessed
                        - data-access-ended
                  type: object
              valueUnsignedInt:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[0]|([1-9][0-9]*)$
                type: number
              valueUri:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUrl:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUsageContext:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  code:
                    description: A code that identifies the type of context being
specified by this usage context
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  valueCodeableConcept:
                    description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                    type: string
                  valueQuantity:
                    description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                    type: string
                  valueRange:
                    description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                    type: string
                  valueReference:
                    description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                    type: string
                  required:
                    - code
                  type: object
              valueUuid:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                type: string
          type: object
        type: array
```

```yaml
      id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
      identifier:
        additionalProperties: false
        description: 'An identifier for the target resource. This is used when
there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
        properties:
          _system:
            additionalProperties: false
            description: Extensions for system
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _use:
            additionalProperties: false
            description: Extensions for use
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _value:
            additionalProperties: false
            description: Extensions for value
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          assigner:
            additionalProperties: false
            description: Organization that issued/manages the identifier
            properties:
              _display:
                description: Extensions for display
                type: string
              _reference:
                description: Extensions for reference
                type: string
              _type:
                description: Extensions for type
                type: string
```

```yaml
              display:
                description:
Plain text narrative that identifies the resource in addition to the resource
reference
                type: string
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            identifier:
                description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                type: string
            reference:
                description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                type: string
            type:
                description: |-
                  The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.

                  The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                type: string
          type: object
      extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            additionalProperties: false
            properties:
              _url:
                description: Extensions for url
                type: string
              _valueBase64Binary:
                description: Extensions for valueBase64Binary
                type: string
              _valueBoolean:
                description: Extensions for valueBoolean
                type: string
              _valueCanonical:
                description: Extensions for valueCanonical
                type: string
              _valueCode:
                description: Extensions for valueCode
                type: string
              _valueDate:
                description: Extensions for valueDate
                type: string
              _valueDateTime:
                description: Extensions for valueDateTime
                type: string
              _valueDecimal:
                description: Extensions for valueDecimal
                type: string
              _valueId:
                description: Extensions for valueId
```

```yaml
                            type: string
                      _valueInstant:
                        description: Extensions for valueInstant
                        type: string
                      _valueInteger:
                        description: Extensions for valueInteger
                        type: string
                      _valueMarkdown:
                        description: Extensions for valueMarkdown
                        type: string
                      _valueOid:
                        description: Extensions for valueOid
                        type: string
                      _valuePositiveInt:
                        description: Extensions for valuePositiveInt
                        type: string
                      _valueString:
                        description: Extensions for valueString
                        type: string
                      _valueTime:
                        description: Extensions for valueTime
                        type: string
                      _valueUnsignedInt:
                        description: Extensions for valueUnsignedInt
                        type: string
                      _valueUri:
                        description: Extensions for valueUri
                        type: string
                      _valueUrl:
                        description: Extensions for valueUrl
                        type: string
                      _valueUuid:
                        description: Extensions for valueUuid
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      url:
                        description: Source of the definition for the extension code -
a logical name or a URL
                        type: string
                      valueAddress:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueAge:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueAnnotation:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueAttachment:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                      valueBase64Binary:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                        type: string
                      valueBoolean:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^true|false$
                        type: boolean
                      valueCanonical:
                        description: 'Value of extension - must be one of a
```

```yaml
                constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          pattern: ^\S*$
                          type: string
                      valueCode:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          pattern: ^[^\s]+(\s[^\s]+)*$
                          type: string
                      valueCodeableConcept:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueCodeableReference:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueCoding:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueContactDetail:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueContactPoint:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueContributor:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueCount:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueDataRequirement:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueDate:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
    (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                          type: string
                      valueDateTime:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
    (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
    [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                          type: string
                      valueDecimal:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                          type: number
                      valueDistance:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueDosage:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
                      valueDuration:
                        description: 'Value of extension - must be one of a
    constrained set of the data types (see [Extensibility](extensibility.html) for a
    list)'
                          type: string
```

```yaml
                    valueExpression:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueHumanName:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueId:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[A-Za-z0-9\-\.]{1,64}$
                      type: string
                    valueIdentifier:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueInstant:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                      type: string
                    valueInteger:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^-?([0]|([1-9][0-9]*))$
                      type: number
                    valueMarkdown:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueMoney:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueOid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                      type: string
                    valueParameterDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valuePeriod:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valuePositiveInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                    valueQuantity:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRatio:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueRatioRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
```

```yaml
list)'
                        type: string
                    valueReference:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueRelatedArtifact:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueSampledData:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueSignature:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueString:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    valueTime:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                        type: string
                    valueTiming:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueTriggerDefinition:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueUnsignedInt:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[0]|([1-9][0-9]*)$
                        type: number
                    valueUri:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                    valueUrl:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                    valueUsageContext:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                    valueUuid:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                        type: string
                  type: object
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            period:
                additionalProperties: false
                description: Time period during which identifier is/was valid for
use
```

```yaml
                properties:
                  _end:
                    description: Extensions for end
                    type: string
                  _start:
                    description: Extensions for start
                    type: string
                  end:
                    description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  start:
                    description: The start of the period. The boundary is
inclusive
                    type: string
                type: object
            system:
              description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
              pattern: ^\S*$
              type: string
            type:
              additionalProperties: false
              description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
              properties:
                _text:
                  description: Extensions for text
                  type: string
                coding:
                  description: A reference to a code defined by a terminology
system
                  items:
                    type: string
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                text:
                  description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                  type: string
              type: object
            use:
              description: The purpose of this identifier
              enum:
                - usual
                - official
                - temp
                - secondary
                - old
            value:
              description: The portion of the identifier typically relevant to the
user and which is unique within the context of the system
              pattern: '^[ \r\n\t\S]+$'
              type: string
        type: object
    reference:
```

```yaml
          description: "A reference to a location at which the other resource is
found. The reference may be a relative reference, in which case it is relative to
the service base URL, or an absolute URL that resolves to the location where the
resource is found. The reference may be version specific or not. If the reference
is not to a FHIR RESTful server, then it should be assumed to be version specific.
Internal fragment references (start with '#') refer to contained resources"
          pattern: '^[ \r\n\t\S]+$'
          type: string
        type:
          description: |-
            The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
            The type is the Canonical URL of Resource Definition that is the type
this reference refers to. References are URLs that are relative to http://hl7.org/
fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/fhir/
StructureDefinition/Patient. Absolute URLs are only allowed for logical models (and
can only be used in references in logical models, not resources)
          pattern: ^\S*$
          type: string
      type: object
      x-ngsi:
        type: Property
    resourceType:
      description: This is a Account resource
      enum:
        - Account
      type: string
      x-ngsi:
        type: Property
    seeAlso:
      description: list of uri pointing to additional resources about the item
      oneOf:
        - items:
            format: uri
            type: string
          minItems: 1
          type: array
        - format: uri
          type: string
      x-ngsi:
        type: Property
    servicePeriod:
      additionalProperties: false
      description: The date range of services associated with this account
      properties:
        _end:
          additionalProperties: false
          description: Extensions for end
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    description: Extensions for url
                    type: string
                  _valueBase64Binary:
                    description: Extensions for valueBase64Binary
                    type: string
                  _valueBoolean:
                    description: Extensions for valueBoolean
                    type: string
                  _valueCanonical:
                    description: Extensions for valueCanonical
                    type: string
                  _valueCode:
                    description: Extensions for valueCode
                    type: string
                  _valueDate:
                    description: Extensions for valueDate
                    type: string
                  _valueDateTime:
                    description: Extensions for valueDateTime
                    type: string
                  _valueDecimal:
                    description: Extensions for valueDecimal
                    type: string
                  _valueId:
                    description: Extensions for valueId
```

```yaml
                    type: string
                  _valueInstant:
                    description: Extensions for valueInstant
                    type: string
                  _valueInteger:
                    description: Extensions for valueInteger
                    type: string
                  _valueMarkdown:
                    description: Extensions for valueMarkdown
                    type: string
                  _valueOid:
                    description: Extensions for valueOid
                    type: string
                  _valuePositiveInt:
                    description: Extensions for valuePositiveInt
                    type: string
                  _valueString:
                    description: Extensions for valueString
                    type: string
                  _valueTime:
                    description: Extensions for valueTime
                    type: string
                  _valueUnsignedInt:
                    description: Extensions for valueUnsignedInt
                    type: string
                  _valueUri:
                    description: Extensions for valueUri
                    type: string
                  _valueUrl:
                    description: Extensions for valueUrl
                    type: string
                  _valueUuid:
                    description: Extensions for valueUuid
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  url:
                    description: Source of the definition for the extension code -
a logical name or a URL
                    type: string
                  valueAddress:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueAge:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueAnnotation:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueAttachment:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    type: string
                  valueBase64Binary:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                    type: string
                  valueBoolean:
                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                    pattern: ^true|false$
                    type: boolean
                  valueCanonical:
                    description: 'Value of extension - must be one of a
```

```yaml
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                pattern: ^\S*$
                                type: string
                          valueCode:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                pattern: ^[^\s]+(\s[^\s]+)*$
                                type: string
                          valueCodeableConcept:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueCodeableReference:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueCoding:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueContactDetail:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueContactPoint:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueContributor:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueCount:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueDataRequirement:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueDate:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
                        (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                                type: string
                          valueDateTime:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
                        (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
                        [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                                type: string
                          valueDecimal:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                                type: number
                          valueDistance:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueDosage:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
                          valueDuration:
                            description: 'Value of extension - must be one of a
                          constrained set of the data types (see [Extensibility](extensibility.html) for a
                        list)'
                                type: string
```

```yaml
                        valueExpression:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueHumanName:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueId:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^[A-Za-z0-9\-\.]{1,64}$
                          type: string
                        valueIdentifier:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueInstant:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                          type: string
                        valueInteger:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^-?([0]|([1-9][0-9]*))$
                          type: number
                        valueMarkdown:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        valueMoney:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueOid:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                          type: string
                        valueParameterDefinition:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valuePeriod:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valuePositiveInt:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          pattern: ^[1-9][0-9]*$
                          type: number
                        valueQuantity:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueRange:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueRatio:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                        valueRatioRange:
                          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
```

```yaml
list)'
                          type: string
                    valueReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                    valueRelatedArtifact:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                    valueSampledData:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                    valueSignature:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                    valueString:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                    valueTime:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                        type: string
                    valueTiming:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                    valueTriggerDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                    valueUnsignedInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[0]|([1-9][0-9]*)$
                        type: number
                    valueUri:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                    valueUrl:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^\S*$
                        type: string
                    valueUsageContext:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                          type: string
                    valueUuid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                          type: string
                  type: object
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
        _start:
          additionalProperties: false
          description: Extensions for start
```

```yaml
                properties:
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      additionalProperties: false
                      properties:
                        _url:
                          description: Extensions for url
                          type: string
                        _valueBase64Binary:
                          description: Extensions for valueBase64Binary
                          type: string
                        _valueBoolean:
                          description: Extensions for valueBoolean
                          type: string
                        _valueCanonical:
                          description: Extensions for valueCanonical
                          type: string
                        _valueCode:
                          description: Extensions for valueCode
                          type: string
                        _valueDate:
                          description: Extensions for valueDate
                          type: string
                        _valueDateTime:
                          description: Extensions for valueDateTime
                          type: string
                        _valueDecimal:
                          description: Extensions for valueDecimal
                          type: string
                        _valueId:
                          description: Extensions for valueId
                          type: string
                        _valueInstant:
                          description: Extensions for valueInstant
                          type: string
                        _valueInteger:
                          description: Extensions for valueInteger
                          type: string
                        _valueMarkdown:
                          description: Extensions for valueMarkdown
                          type: string
                        _valueOid:
                          description: Extensions for valueOid
                          type: string
                        _valuePositiveInt:
                          description: Extensions for valuePositiveInt
                          type: string
                        _valueString:
                          description: Extensions for valueString
                          type: string
                        _valueTime:
                          description: Extensions for valueTime
                          type: string
                        _valueUnsignedInt:
                          description: Extensions for valueUnsignedInt
                          type: string
                        _valueUri:
                          description: Extensions for valueUri
                          type: string
                        _valueUrl:
                          description: Extensions for valueUrl
                          type: string
                        _valueUuid:
                          description: Extensions for valueUuid
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: string
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        url:
```

                            description: Source of the definition for the extension code -
a logical name or a URL
                            type: string
                        valueAddress:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueAge:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueAnnotation:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueAttachment:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueBase64Binary:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                            type: string
                        valueBoolean:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^true|false$
                            type: boolean
                        valueCanonical:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^\S*$
                            type: string
                        valueCode:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^[^\s]+(\s[^\s]+)*$
                            type: string
                        valueCodeableConcept:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueCodeableReference:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueCoding:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueContactDetail:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueContactPoint:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueContributor:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueCount:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueDataRequirement:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'

```yaml
                type: string
              valueDate:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                type: string
              valueDateTime:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                type: string
              valueDecimal:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                type: number
              valueDistance:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
              valueDosage:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
              valueDuration:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
              valueExpression:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
              valueHumanName:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
              valueId:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^[A-Za-z0-9\-\.]{1,64}$
                type: string
              valueIdentifier:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
              valueInstant:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                type: string
              valueInteger:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^-?([0]|([1-9][0-9]*))$
                type: number
              valueMarkdown:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: '^[ \r\n\t\S]+$'
                type: string
              valueMoney:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
              valueOid:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
```

```yaml
list)'
                      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                      type: string
                  valueParameterDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valuePeriod:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valuePositiveInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[1-9][0-9]*$
                      type: number
                  valueQuantity:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueRatio:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueRatioRange:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueRelatedArtifact:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueSampledData:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueSignature:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueString:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  valueTime:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                      type: string
                  valueTiming:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueTriggerDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueUnsignedInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```
                      pattern: ^[0]|([1-9][0-9]*)$
                      type: number
                  valueUri:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                  valueUrl:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                  valueUsageContext:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                  valueUuid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                      type: string
                type: object
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
          type: object
      end:
        description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-(0[1-9]|
1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)
(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
        type: string
      extension:
        description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          additionalProperties: false
          properties:
            _url:
              additionalProperties: false
              description: Extensions for url
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _valueBase64Binary:
              additionalProperties: false
              description: Extensions for valueBase64Binary
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
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internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueBoolean:
                    additionalProperties: false
                    description: Extensions for valueBoolean
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueCanonical:
                    additionalProperties: false
                    description: Extensions for valueCanonical
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueCode:
                    additionalProperties: false
                    description: Extensions for valueCode
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueDate:
                    additionalProperties: false
                    description: Extensions for valueDate
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _valueDateTime:
                    additionalProperties: false
                    description: Extensions for valueDateTime
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

```yaml
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        type: object
                      _valueDecimal:
                        additionalProperties: false
                        description: Extensions for valueDecimal
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                        type: object
                      _valueId:
                        additionalProperties: false
                        description: Extensions for valueId
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                        type: object
                      _valueInstant:
                        additionalProperties: false
                        description: Extensions for valueInstant
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                        type: object
                      _valueInteger:
                        additionalProperties: false
                        description: Extensions for valueInteger
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                              type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                        type: object
                      _valueMarkdown:
                        additionalProperties: false
                        description: Extensions for valueMarkdown
                        properties:
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

```yaml
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                  _valueOid:
                    additionalProperties: false
                    description: Extensions for valueOid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                  _valuePositiveInt:
                    additionalProperties: false
                    description: Extensions for valuePositiveInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                  _valueString:
                    additionalProperties: false
                    description: Extensions for valueString
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                  _valueTime:
                    additionalProperties: false
                    description: Extensions for valueTime
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                      type: object
                  _valueUnsignedInt:
                    additionalProperties: false
                    description: Extensions for valueUnsignedInt
```

```yaml
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _valueUri:
            additionalProperties: false
            description: Extensions for valueUri
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _valueUrl:
            additionalProperties: false
            description: Extensions for valueUrl
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          _valueUuid:
            additionalProperties: false
            description: Extensions for valueUuid
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
          url:
            description: Source of the definition for the extension code - a
```

```
logical name or a URL
                    pattern: ^\S*$
                    type: string
              valueAddress:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _city:
                      description: Extensions for city
                      type: string
                    _country:
                      description: Extensions for country
                      type: string
                    _district:
                      description: Extensions for district
                      type: string
                    _line:
                      description: Extensions for line
                      items:
                      type: array
                    _postalCode:
                      description: Extensions for postalCode
                      type: string
                    _state:
                      description: Extensions for state
                      type: string
                    _text:
                      description: Extensions for text
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    city:
                      description: 'The name of the city, town, suburb, village or
other community or delivery center'
                      type: string
                    country:
                      description: Country - a nation as commonly understood or
generally accepted
                      type: string
                    district:
                      description: The name of the administrative area (county)
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    line:
                      description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                      items:
                      type: array
                    period:
                      description: Time period when address was/is in use
                      type: string
                    postalCode:
                      description: A postal code designating a region defined by the
postal service
                      type: string
                    state:
                      description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                      type: string
                    text:
                      description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                      type: string
                    type:
                      description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
```

```yaml
                addresses are both
                    enum:
                      - postal
                      - physical
                      - both
                  use:
                    description: The purpose of this address
                    enum:
                      - home
                      - work
                      - temp
                      - old
                      - billing
                type: object
            valueAge:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
The identification of the system that provides the coded form of the unit
                  type: string
                unit:
                  description: A human-readable form of the unit
                  type: string
                value:
                  description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                  type: string
              type: object
            valueAnnotation:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _authorString:
                  description: Extensions for authorString
                  type: string
                _text:
                  description: Extensions for text
                  type: string
                _time:
                  description: Extensions for time
```

```yaml
                                    type: string
                          authorReference:
                            description: The individual responsible for making the
annotation
                            type: string
                          authorString:
                            description: The individual responsible for making the
annotation
                            pattern: '^[ \r\n\t\S]+$'
                            type: string
                          extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                          text:
                            description: The text of the annotation in markdown format
                            type: string
                          time:
                            description: Indicates when this particular annotation was
made
                            type: string
                        type: object
                    valueAttachment:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _contentType:
                          description: Extensions for contentType
                          type: string
                        _creation:
                          description: Extensions for creation
                          type: string
                        _data:
                          description: Extensions for data
                          type: string
                        _hash:
                          description: Extensions for hash
                          type: string
                        _language:
                          description: Extensions for language
                          type: string
                        _size:
                          description: Extensions for size
                          type: string
                        _title:
                          description: Extensions for title
                          type: string
                        _url:
                          description: Extensions for url
                          type: string
                        contentType:
                          description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                          type: string
                        creation:
                          description: The date that the attachment was first created
                          type: string
                        data:
                          description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        hash:
                          description: The calculated hash of the data using SHA-1.
Represented using base64
                          type: string
                        id:
```

```yaml
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      language:
                        description: The human language of the content. The value can
be any valid value according to BCP 47
                        type: string
                      size:
                        description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                        type: string
                      title:
                        description: A label or set of text to display in place of the
data
                        type: string
                      url:
                        description: A location where the data can be accessed
                        type: string
                    type: object
                  valueBase64Binary:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                    type: string
                  valueBoolean:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^true|false$
                    type: boolean
                  valueCanonical:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueCode:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[^\s]+(\s[^\s]+)*$
                    type: string
                  valueCodeableConcept:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
system
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                        type: string
                    type: object
                  valueCodeableReference:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      concept:
                      description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
```

```yaml
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                reference:
                    description: A reference to a resource the provides exact
details about the information being referenced
                    type: string
            type: object
        valueCoding:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
                _code:
                    description: Extensions for code
                    type: string
                _display:
                    description: Extensions for display
                    type: string
                _system:
                    description: Extensions for system
                    type: string
                _userSelected:
                    description: Extensions for userSelected
                    type: string
                _version:
                    description: Extensions for version
                    type: string
                code:
                    description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
                    type: string
                display:
                    description: 'A representation of the meaning of the code in
the system, following the rules of the system'
                    type: string
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                system:
                    description:
The identification of the code system that defines the meaning of the symbol in the
code
                    type: string
                userSelected:
                    description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                    type: string
                version:
                    description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                    type: string
            type: object
        valueContactDetail:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
                _name:
                    description: Extensions for name
                    type: string
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```
definition of the extension'
                          items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        name:
                            description: The name of an individual to contact
                            type: string
                        telecom:
                            description: The contact details for the individual (if a name
was provided) or the organization
                          items:
                            type: array
                      type: object
                    valueContactPoint:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _rank:
                          description: Extensions for rank
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _use:
                          description: Extensions for use
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array
                        id:
                            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                            type: string
                        period:
                            description: Time period when the contact point was/is in
use
                            type: string
                        rank:
                            description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                            type: string
                        system:
                            description: Telecommunications form for contact point - what
communications system is required to make use of the contact
                          enum:
                            - phone
                            - fax
                            - email
                            - pager
                            - url
                            - sms
                            - other
                        use:
                            description: Identifies the purpose for the contact point
                          enum:
                            - home
                            - work
                            - temp
                            - old
                            - mobile
                        value:
                            description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                            type: string
                      type: object
                    valueContributor:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _name:
```

```yaml
                    description: Extensions for name
                    type: string
                  _type:
                    description: Extensions for type
                    type: string
                  contact:
                    description: Contact details to assist a user in finding and
communicating with the contributor
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  name:
                    description: The name of the individual or organization
responsible for the contribution
                    type: string
                  type:
                    description: The type of contributor
                    enum:
                      - author
                      - editor
                      - reviewer
                      - endorser
                type: object
            valueCount:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
The identification of the system that provides the coded form of the unit
                  type: string
```

```yaml
                  unit:
                    description: A human-readable form of the unit
                    type: string
                  value:
                    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                    type: string
                type: object
              valueDataRequirement:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _limit:
                    description: Extensions for limit
                    type: string
                  _mustSupport:
                    description: Extensions for mustSupport
                    items:
                    type: array
                  _type:
                    description: Extensions for type
                    type: string
                  codeFilter:
                    description: 'Code filters specify additional constraints on
the data, specifying the value set of interest for a particular element of the
data. Each code filter defines an additional constraint on the data, i.e. code
filters are AND''ed, not OR''ed'
                    items:
                    type: array
                  dateFilter:
                    description: 'Date filters specify additional constraints on
the data in terms of the applicable date range for specific elements. Each date
filter specifies an additional constraint on the data, i.e. date filters are
AND''ed, not OR''ed'
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  limit:
                    description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                    type: string
                  mustSupport:
                    description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
consist only of identifiers, constant indexers, and .resolve() (see the [Simple
FHIRPath Profile](fhirpath.html#simple) for full details)"
                    items:
                    type: array
                  profile:
                    description: 'The profile of the required data, specified as
the uri of the profile definition'
                    items:
                    type: array
                  sort:
                    description: Specifies the order of the results to be
returned
                    items:
                    type: array
                  subjectCodeableConcept:
                    description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                    type: string
                  subjectReference:
                    description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
                    type: string
                  type:
                    description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
```

```yaml
                    resource of the profile'
                          type: string
                      type: object
                  valueDate:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                  valueDateTime:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                      type: string
                  valueDecimal:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                      type: number
                  valueDistance:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _code:
                          description: Extensions for code
                          type: string
                        _comparator:
                          description: Extensions for comparator
                          type: string
                        _system:
                          description: Extensions for system
                          type: string
                        _unit:
                          description: Extensions for unit
                          type: string
                        _value:
                          description: Extensions for value
                          type: string
                        code:
                          description: A computer processable form of the unit in some
unit representation system
                          type: string
                        comparator:
                          description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                          enum:
                            - <
                            - <=
                            - '>='
                            - >
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        system:
                          description:
The identification of the system that provides the coded form of the unit
                          type: string
                        unit:
                          description: A human-readable form of the unit
                          type: string
                        value:
                          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                          type: string
                      type: object
                  valueDosage:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _asNeededBoolean:
```

```yaml
                    description: Extensions for asNeededBoolean
                    type: string
                  _patientInstruction:
                    description: Extensions for patientInstruction
                    type: string
                  _sequence:
                    description: Extensions for sequence
                    type: string
                  _text:
                    description: Extensions for text
                    type: string
                  additionalInstruction:
                    description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                    items:
                    type: array
                  asNeededBoolean:
                    description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                    pattern: ^true|false$
                    type: boolean
                  asNeededCodeableConcept:
                    description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                    type: string
                  doseAndRate:
                    description: The amount of medication administered
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  maxDosePerAdministration:
                    description: Upper limit on medication per administration
                    type: string
                  maxDosePerLifetime:
                    description: Upper limit on medication per lifetime of the
patient
                    type: string
                  maxDosePerPeriod:
                    description: Upper limit on medication per unit of time
                    type: string
                  method:
                    description: Technique for administering medication
                    type: string
                  modifierExtension:
                    description: |-
                      May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
                      Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                    items:
                    type: array
                  patientInstruction:
                    description: Instructions in terms that are understood by the
patient or consumer
                    type: string
                  route:
                    description: How drug should enter body
                    type: string
                  sequence:
                    description: Indicates the order in which the dosage
instructions should be applied or interpreted
```

```yaml
                    type: string
                site:
                  description: Body site to administer to
                  type: string
                text:
                  description: Free text dosage instructions e.g. SIG
                  type: string
                timing:
                  description: When medication should be administered
                  type: string
              type: object
          valueDuration:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _code:
                description: Extensions for code
                type: string
              _comparator:
                description: Extensions for comparator
                type: string
              _system:
                description: Extensions for system
                type: string
              _unit:
                description: Extensions for unit
                type: string
              _value:
                description: Extensions for value
                type: string
              code:
                description: A computer processable form of the unit in some
unit representation system
                type: string
              comparator:
                description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                enum:
                  - <
                  - <=
                  - '>='
                  - >
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              system:
                description:
The identification of the system that provides the coded form of the unit
                type: string
              unit:
                description: A human-readable form of the unit
                type: string
              value:
                description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                type: string
            type: object
          valueExpression:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _description:
                description: Extensions for description
                type: string
              _expression:
                description: Extensions for expression
                type: string
              _language:
                description: Extensions for language
                type: string
              _name:
                description: Extensions for name
```

```yaml
                    type: string
                  _reference:
                    description: Extensions for reference
                    type: string
                  description:
                    description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                    type: string
                  expression:
                    description: An expression in the specified language that
returns a value
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  language:
                    description: The media type of the language for the
expression
                    enum:
                      - text/cql
                      - text/fhirpath
                      - application/x-fhir-query
                      - text/cql-identifier
                      - text/cql-expression
                  name:
                    description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                    type: string
                  reference:
                    description: A URI that defines where the expression is
found
                    type: string
                type: object
              valueHumanName:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _family:
                    description: Extensions for family
                    type: string
                  _given:
                    description: Extensions for given
                    items:
                    type: array
                  _prefix:
                    description: Extensions for prefix
                    items:
                    type: array
                  _suffix:
                    description: Extensions for suffix
                    items:
                    type: array
                  _text:
                    description: Extensions for text
                    type: string
                  _use:
                    description: Extensions for use
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  family:
                    description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
                    type: string
                  given:
                    description: Given name
                    items:
```

```yaml
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  period:
                    description: Indicates the period of time when this name was
valid for the named person
                    type: string
                  prefix:
                    description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                    items:
                    type: array
                  suffix:
                    description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                    items:
                    type: array
                  text:
                    description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                    type: string
                  use:
                    description: Identifies the purpose for this name
                    enum:
                      - usual
                      - official
                      - temp
                      - nickname
                      - anonymous
                      - old
                      - maiden
                type: object
              valueId:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[A-Za-z0-9\-\.]{1,64}$
                type: string
              valueIdentifier:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _system:
                    description: Extensions for system
                    type: string
                  _use:
                    description: Extensions for use
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  assigner:
                    description: Organization that issued/manages the
identifier
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  period:
                    description: Time period during which identifier is/was valid
for use
                    type: string
                  system:
                    description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                    type: string
                  type:
                    description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                    type: string
                  use:
```

```yaml
                        description: The purpose of this identifier
                        enum:
                          - usual
                          - official
                          - temp
                          - secondary
                          - old
                    value:
                        description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                        type: string
                    type: object
                valueInstant:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                    type: string
                valueInteger:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^-?([0]|([1-9][0-9]*))$
                    type: number
                valueMarkdown:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                valueMoney:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _currency:
                        description: Extensions for currency
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      currency:
                        description: ISO 4217 Currency Code
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      value:
                        description: Numerical value (with implicit precision)
                        type: string
                    type: object
                valueOid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                valueParameterDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _documentation:
                        description: Extensions for documentation
                        type: string
                      _max:
                        description: Extensions for max
                        type: string
                      _min:
                        description: Extensions for min
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
```

```yaml
                        description: Extensions for use
                        type: string
                    documentation:
                        description: A brief discussion of what the parameter is for
and how it is used by the module
                        type: string
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    max:
                        description: The maximum number of times this element is
permitted to appear in the request or response
                        type: string
                    min:
                        description: The minimum number of times this parameter SHALL
appear in the request or response
                        type: string
                    name:
                        description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                        type: string
                    profile:
                        description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                        type: string
                    type:
                        description: The type of the parameter
                        type: string
                    use:
                        description: Whether the parameter is input or output for the
module
                        type: string
                  type: object
              valuePeriod:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _end:
                    description: Extensions for end
                    type: string
                  _start:
                    description: Extensions for start
                    type: string
                  end:
                    description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  start:
                    description: The start of the period. The boundary is
inclusive
                    type: string
                type: object
              valuePositiveInt:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[1-9][0-9]*$
                type: number
              valueQuantity:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
```

```yaml
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                  type: object
                valueRange:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    high:
                      description: The high limit. The boundary is inclusive
                      type: string
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    low:
                      description: The low limit. The boundary is inclusive
                      type: string
                  type: object
                valueRatio:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
```

```yaml
              denominator:
                description: The value of the denominator
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              numerator:
                description: The value of the numerator
                type: string
            type: object
          valueRatioRange:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              denominator:
                description: The value of the denominator
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              highNumerator:
                description: The value of the high limit numerator
                type: string
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              lowNumerator:
                description: The value of the low limit numerator
                type: string
            type: object
          valueReference:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _display:
                description: Extensions for display
                type: string
              _reference:
                description: Extensions for reference
                type: string
              _type:
                description: Extensions for type
                type: string
              display:
                description: Plain text narrative that identifies the resource
in addition to the resource reference
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              identifier:
                description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
```

```
          business concept that would be expected to be exposed as a FHIR instance, and that
          instance would need to be of a FHIR resource type allowed by the reference'
                              type: string
                          reference:
                              description: "A reference to a location at which the other
          resource is found. The reference may be a relative reference, in which case it is
          relative to the service base URL, or an absolute URL that resolves to the location
          where the resource is found. The reference may be version specific or not. If the
          reference is not to a FHIR RESTful server, then it should be assumed to be version
          specific. Internal fragment references (start with '#') refer to contained
          resources"
                              type: string
                          type:
                              description: |-
                                  The expected type of the target of the reference. If both
          Reference.type and Reference.reference are populated and Reference.reference is a
          FHIR URL, both SHALL be consistent.

                                  The type is the Canonical URL of Resource Definition that is
          the type this reference refers to. References are URLs that are relative to http://
          hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
          fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
          (and can only be used in references in logical models, not resources)
                              type: string
                      type: object
                  valueRelatedArtifact:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
          set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                          _citation:
                              description: Extensions for citation
                              type: string
                          _display:
                              description: Extensions for display
                              type: string
                          _label:
                              description: Extensions for label
                              type: string
                          _type:
                              description: Extensions for type
                              type: string
                          _url:
                              description: Extensions for url
                              type: string
                          citation:
                              description:
          A bibliographic citation for the related artifact. This text SHOULD be formatted
          according to an accepted citation format
                              type: string
                          display:
                              description: 'A brief description of the document or knowledge
          resource being referenced, suitable for display to a consumer'
                              type: string
                          document:
                              description: 'The document being referenced, represented as an
          attachment. This is exclusive with the resource element'
                              type: string
                          extension:
                              description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                              items:
                              type: array
                          id:
                              description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                              type: string
                          label:
                              description: 'A short label that can be used to reference the
          citation from elsewhere in the containing artifact, such as a footnote index'
                              type: string
                          resource:
                              description: 'The related resource, such as a library, value
          set, profile, or other knowledge resource'
                              type: string
                          type:
                              description: The type of relationship to the related
          artifact
                              enum:
                                  - documentation
                                  - justification
                                  - citation
                                  - predecessor
```

                    - successor
                    - derived-from
                    - depends-on
                    - composed-of
                url:
                  description: A url for the artifact that can be followed to
access the actual content
                  type: string
              type: object
            valueSampledData:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _data:
                  description: Extensions for data
                  type: string
                _dimensions:
                  description: Extensions for dimensions
                  type: string
                _factor:
                  description: Extensions for factor
                  type: string
                _lowerLimit:
                  description: Extensions for lowerLimit
                  type: string
                _period:
                  description: Extensions for period
                  type: string
                _upperLimit:
                  description: Extensions for upperLimit
                  type: string
                data:
                  description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
                  type: string
                dimensions:
                  description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                factor:
                  description:
A correction factor that is applied to the sampled data points before they are
added to the origin
                  type: string
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                lowerLimit:
                  description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                  type: string
                origin:
                  description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                  type: string
                period:
                  description: 'The length of time between sampling times,
measured in milliseconds'
                  type: string
                upperLimit:
                  description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                  type: string
              required:
                - origin
              type: object
            valueSignature:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained

```yaml
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _data:
                        description: Extensions for data
                        type: string
                      _sigFormat:
                        description: Extensions for sigFormat
                        type: string
                      _targetFormat:
                        description: Extensions for targetFormat
                        type: string
                      _when:
                        description: Extensions for when
                        type: string
                      data:
                        description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      onBehalfOf:
                        description: A reference to an application-usable description
of the identity that is represented by the signature
                        type: string
                      sigFormat:
                        description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                        type: string
                      targetFormat:
                        description:
A mime type that indicates the technical format of the target resources signed by
the signature
                        type: string
                      type:
                        description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                        items:
                        type: array
                      when:
                        description: When the digital signature was signed
                        type: string
                      who:
                        description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                        type: string
                    required:
                      - type
                      - who
                    type: object
                  valueString:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
                    type: string
                  valueTiming:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _event:
                        description: Extensions for event
                        items:
                        type: array
                      code:
```

```yaml
                        description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                        type: string
                      event:
                        description: Identifies specific times when the event
occurs
                        items:
                          type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      modifierExtension:
                        description: |-
                          May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                          Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                        items:
                          type: array
                      repeat:
                        description: A set of rules that describe when the event is
scheduled
                        type: string
                    type: object
                valueTriggerDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      _timingDate:
                        description: Extensions for timingDate
                        type: string
                      _timingDateTime:
                        description: Extensions for timingDateTime
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      condition:
                        description: A boolean-valued expression that is evaluated in
the context of the container of the trigger definition and returns whether or not
the trigger fires
                        type: string
                      data:
                        description: 'The triggering data of the event (if this is a
data trigger). If more than one data is requirement is specified, then all the
data requirements must be true'
                        items:
                          type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
```

```yaml
internal references). This may be any string value that does not contain spaces
                          type: string
                        name:
                          description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
                          type: string
                        timingDate:
                          description: The timing of the event (if this is a periodic
trigger)
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                          type: string
                        timingDateTime:
                          description: The timing of the event (if this is a periodic
trigger)
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                          type: string
                        timingReference:
                          description: The timing of the event (if this is a periodic
trigger)
                          type: string
                        timingTiming:
                          description: The timing of the event (if this is a periodic
trigger)
                          type: string
                        type:
                          description: The type of triggering event
                          enum:
                            - named-event
                            - periodic
                            - data-changed
                            - data-added
                            - data-modified
                            - data-removed
                            - data-accessed
                            - data-access-ended
                      type: object
                  valueUnsignedInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[0]|([1-9][0-9]*)$
                    type: number
                  valueUri:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUrl:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^\S*$
                    type: string
                  valueUsageContext:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      code:
                        description: A code that identifies the type of context being
specified by this usage context
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      valueCodeableConcept:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                        type: string
                      valueQuantity:
                        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
```

```yaml
                        type: string
                    valueRange:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueReference:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                  required:
                    - code
                  type: object
                valueUuid:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                  type: string
              type: object
          type: array
        id:
          description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        start:
          description: The start of the period. The boundary is inclusive
          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-(0[1-9]|
1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)
(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
          type: string
      type: object
      x-ngsi:
        type: Property
    source:
      description: 'A sequence of characters giving the original source of the
entity data as a URL. Recommended to be the fully qualified domain name of the
source provider, or the URL to the source object'
      type: string
      x-ngsi:
        type: Property
    status:
      description: Indicates whether the account is presently used/usable or
not
      pattern: ^[^\s]+(\s[^\s]+)*$
      type: string
      x-ngsi:
        type: Property
    subject:
      description: 'Identifies the entity which incurs the expenses. While the
immediate recipients of services or goods might be entities related to the
subject, the expenses were ultimately incurred by the subject of the Account'
      items:
        additionalProperties: false
        properties:
          _display:
            additionalProperties: false
            description: Extensions for display
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          _reference:
            additionalProperties: false
            description: Extensions for reference
            properties:
              extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
```

```yaml
                  there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
                _type:
                  additionalProperties: false
                  description: Extensions for type
                  properties:
                    extension:
                      description: 'May be used to represent additional information that
              is not part of the basic definition of the element. To make the use of extensions
              safe and manageable, there is a strict set of governance  applied to the
              definition and use of extensions. Though any implementer can define an extension,
              there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type: object
              display:
                description: Plain text narrative that identifies the resource in
              addition to the resource reference
                pattern: '^[ \r\n\t\S]+$'
                type: string
              extension:
                description: 'May be used to represent additional information that is
              not part of the basic definition of the element. To make the use of extensions
              safe and manageable, there is a strict set of governance  applied to the
              definition and use of extensions. Though any implementer can define an extension,
              there is a set of requirements that SHALL be met as part of the definition of the
              extension'
                items:
                  additionalProperties: false
                  properties:
                    _url:
                      description: Extensions for url
                      type: string
                    _valueBase64Binary:
                      description: Extensions for valueBase64Binary
                      type: string
                    _valueBoolean:
                      description: Extensions for valueBoolean
                      type: string
                    _valueCanonical:
                      description: Extensions for valueCanonical
                      type: string
                    _valueCode:
                      description: Extensions for valueCode
                      type: string
                    _valueDate:
                      description: Extensions for valueDate
                      type: string
                    _valueDateTime:
                      description: Extensions for valueDateTime
                      type: string
                    _valueDecimal:
                      description: Extensions for valueDecimal
                      type: string
                    _valueId:
                      description: Extensions for valueId
                      type: string
                    _valueInstant:
                      description: Extensions for valueInstant
                      type: string
                    _valueInteger:
                      description: Extensions for valueInteger
                      type: string
                    _valueMarkdown:
                      description: Extensions for valueMarkdown
                      type: string
                    _valueOid:
                      description: Extensions for valueOid
                      type: string
                    _valuePositiveInt:
```

```yaml
                          description: Extensions for valuePositiveInt
                          type: string
                      _valueString:
                          description: Extensions for valueString
                          type: string
                      _valueTime:
                          description: Extensions for valueTime
                          type: string
                      _valueUnsignedInt:
                          description: Extensions for valueUnsignedInt
                          type: string
                      _valueUri:
                          description: Extensions for valueUri
                          type: string
                      _valueUrl:
                          description: Extensions for valueUrl
                          type: string
                      _valueUuid:
                          description: Extensions for valueUuid
                          type: string
                      extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                              type: string
                          type: array
                      id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      url:
                          description: Source of the definition for the extension code - a
logical name or a URL
                          type: string
                      valueAddress:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                      valueAge:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                      valueAnnotation:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                      valueAttachment:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                      valueBase64Binary:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                          type: string
                      valueBoolean:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^true|false$
                          type: boolean
                      valueCanonical:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^\S*$
                          type: string
                      valueCode:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^[^\s]+(\s[^\s]+)*$
                          type: string
                      valueCodeableConcept:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                      valueCodeableReference:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
                      valueCoding:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          type: string
```

```yaml
                    valueContactDetail:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueContactPoint:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueContributor:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueCount:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueDataRequirement:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueDate:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                      type: string
                    valueDateTime:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                      type: string
                    valueDecimal:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                      type: number
                    valueDistance:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueDosage:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueDuration:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueExpression:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueHumanName:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueId:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^[A-Za-z0-9\-\.]{1,64}$
                      type: string
                    valueIdentifier:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      type: string
                    valueInstant:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                      type: string
                    valueInteger:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: ^-?([0]|([1-9][0-9]*))$
                      type: number
                    valueMarkdown:
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueMoney:
                      description: 'Value of extension - must be one of a constrained
```

```yaml
                          set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueOid:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                                type: string
                          valueParameterDefinition:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valuePeriod:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valuePositiveInt:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                pattern: ^[1-9][0-9]*$
                                type: number
                          valueQuantity:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueRange:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueRatio:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueRatioRange:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueReference:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueRelatedArtifact:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueSampledData:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueSignature:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueString:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                pattern: '^[ \r\n\t\S]+$'
                                type: string
                          valueTime:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                                type: string
                          valueTiming:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueTriggerDefinition:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                type: string
                          valueUnsignedInt:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                pattern: ^[0]|([1-9][0-9]*)$
                                type: number
                          valueUri:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                pattern: ^\S*$
                                type: string
                          valueUrl:
                                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                                pattern: ^\S*$
                                type: string
```

```yaml
                  valueUsageContext:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    type: string
                  valueUuid:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                    type: string
                type: object
            type: array
        id:
          description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        identifier:
          additionalProperties: false
          description: 'An identifier for the target resource. This is used when
there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
          properties:
            _system:
              additionalProperties: false
              description: Extensions for system
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _use:
              additionalProperties: false
              description: Extensions for use
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _value:
              additionalProperties: false
              description: Extensions for value
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            assigner:
```

```yaml
              additionalProperties: false
              description: Organization that issued/manages the identifier
              properties:
                _display:
                  description: Extensions for display
                  type: string
                _reference:
                  description: Extensions for reference
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                display:
                  description: Plain text narrative that identifies the resource
in addition to the resource reference
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                identifier:
                  description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                  type: string
                reference:
                  description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                  type: string
                type:
                  description: |-
                    The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                    The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                  type: string
              type: object
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            period:
              additionalProperties: false
              description: Time period during which identifier is/was valid for
use
              properties:
                _end:
                  description: Extensions for end
                  type: string
                _start:
                  description: Extensions for start
```

```yaml
                        type: string
                      end:
                        description: 'The end of the period. If the end of the period
              is missing, it means no end was known or planned at the time the instance was
              created. The start may be in the past, and the end date in the future, which means
              that period is expected/planned to end at that time'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
                      start:
                        description: The start of the period. The boundary is
              inclusive
                        type: string
                    type: object
                  system:
                    description: 'Establishes the namespace for the value - that is, a
              URL that describes a set values that are unique'
                    pattern: ^\S*$
                    type: string
                  type:
                    additionalProperties: false
                    description: A coded type for the identifier that can be used to
              determine which identifier to use for a specific purpose
                    properties:
                      _text:
                        description: Extensions for text
                        type: string
                      coding:
                        description: A reference to a code defined by a terminology
              system
                        items:
                          type: string
                        type: array
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
                      text:
                        description: A human language representation of the concept as
              seen/selected/uttered by the user who entered the data and/or which represents the
              intended meaning of the user
                        type: string
                    type: object
                  use:
                    description: The purpose of this identifier
                    enum:
                      - usual
                      - official
                      - temp
                      - secondary
                      - old
                  value:
                    description: The portion of the identifier typically relevant to
              the user and which is unique within the context of the system
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                type: object
              reference:
                description: "A reference to a location at which the other resource is
              found. The reference may be a relative reference, in which case it is relative to
              the service base URL, or an absolute URL that resolves to the location where the
              resource is found. The reference may be version specific or not. If the reference
              is not to a FHIR RESTful server, then it should be assumed to be version specific.
              Internal fragment references (start with '#') refer to contained resources"
```

```yaml
                        pattern: '^[ \r\n\t\S]+$'
                      type: string
                  type:
                    description: |-
                        The expected type of the target of the reference. If both
                      Reference.type and Reference.reference are populated and Reference.reference is a
                      FHIR URL, both SHALL be consistent.

                      The type is the Canonical URL of Resource Definition that is the type this
                      reference refers to. References are URLs that are relative to http://hl7.org/fhir/
                      StructureDefinition/ e.g. Patient is a reference to http://hl7.org/fhir/
                      StructureDefinition/Patient. Absolute URLs are only allowed for logical models (and
                      can only be used in references in logical models, not resources)
                        pattern: ^\S*$
                        type: string
                type: object
              type: array
              x-ngsi:
                type: Property
          text:
            additionalProperties: false
            description: 'A human-readable narrative that contains a summary of the
              resource and can be used to represent the content of the resource to a human. The
              narrative need not encode all the structured data, but is required to contain
              sufficient detail to make it clinically safe for a human to just read the
              narrative. Resource definitions may define what content should be represented in
              the narrative to ensure clinical safety'
            properties:
              _status:
                additionalProperties: false
                description: Extensions for status
                properties:
                  extension:
                    description: 'May be used to represent additional information that
                      is not part of the basic definition of the element. To make the use of extensions
                      safe and manageable, there is a strict set of governance  applied to the
                      definition and use of extensions. Though any implementer can define an extension,
                      there is a set of requirements that SHALL be met as part of the definition of the
                      extension'
                    items:
                      additionalProperties: false
                      properties:
                        _url:
                          description: Extensions for url
                          type: string
                        _valueBase64Binary:
                          description: Extensions for valueBase64Binary
                          type: string
                        _valueBoolean:
                          description: Extensions for valueBoolean
                          type: string
                        _valueCanonical:
                          description: Extensions for valueCanonical
                          type: string
                        _valueCode:
                          description: Extensions for valueCode
                          type: string
                        _valueDate:
                          description: Extensions for valueDate
                          type: string
                        _valueDateTime:
                          description: Extensions for valueDateTime
                          type: string
                        _valueDecimal:
                          description: Extensions for valueDecimal
                          type: string
                        _valueId:
                          description: Extensions for valueId
                          type: string
                        _valueInstant:
                          description: Extensions for valueInstant
                          type: string
                        _valueInteger:
                          description: Extensions for valueInteger
                          type: string
                        _valueMarkdown:
                          description: Extensions for valueMarkdown
                          type: string
                        _valueOid:
                          description: Extensions for valueOid
                          type: string
                        _valuePositiveInt:
                          description: Extensions for valuePositiveInt
                          type: string
                        _valueString:
                          description: Extensions for valueString
```

```yaml
                          type: string
                    _valueTime:
                      description: Extensions for valueTime
                      type: string
                    _valueUnsignedInt:
                      description: Extensions for valueUnsignedInt
                      type: string
                    _valueUri:
                      description: Extensions for valueUri
                      type: string
                    _valueUrl:
                      description: Extensions for valueUrl
                      type: string
                    _valueUuid:
                      description: Extensions for valueUuid
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    url:
                      description: Source of the definition for the extension code -
a logical name or a URL
                      type: string
                    valueAddress:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAge:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAnnotation:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueAttachment:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueBase64Binary:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                      type: string
                    valueBoolean:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^true|false$
                      type: boolean
                    valueCanonical:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                    valueCode:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[^\s]+(\s[^\s]+)*$
                      type: string
                    valueCodeableConcept:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueCodeableReference:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
```

```yaml
list)'
                            type: string
                        valueCoding:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueContactDetail:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueContactPoint:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueContributor:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueCount:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueDataRequirement:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueDate:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                            type: string
                        valueDateTime:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                            type: string
                        valueDecimal:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                            type: number
                        valueDistance:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueDosage:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueDuration:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueExpression:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueHumanName:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            type: string
                        valueId:
                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                            pattern: ^[A-Za-z0-9\-\.]{1,64}$
                            type: string
                        valueIdentifier:
                            description: 'Value of extension - must be one of a
```

```yaml
                  constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueInstant:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                        type: string
                  valueInteger:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^-?([0]|([1-9][0-9]*))$
                        type: number
                  valueMarkdown:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: '^[ \r\n\t\S]+$'
                        type: string
                  valueMoney:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueOid:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                        type: string
                  valueParameterDefinition:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valuePeriod:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valuePositiveInt:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        pattern: ^[1-9][0-9]*$
                        type: number
                  valueQuantity:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueRange:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueRatio:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueRatioRange:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueReference:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueRelatedArtifact:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueSampledData:
                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                        type: string
                  valueSignature:
```

```yaml
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueString:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                    valueTime:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                      type: string
                    valueTiming:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueTriggerDefinition:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueUnsignedInt:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^[0]|([1-9][0-9]*)$
                      type: number
                    valueUri:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                    valueUrl:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^\S*$
                      type: string
                    valueUsageContext:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      type: string
                    valueUuid:
                      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                      type: string
                  type: object
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
          div:
            description: 'The actual narrative content, a stripped down version of
XHTML'
          extension:
            description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              additionalProperties: false
              properties:
                _url:
                  additionalProperties: false
                  description: Extensions for url
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
```

```yaml
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueBase64Binary:
                    additionalProperties: false
                    description: Extensions for valueBase64Binary
                    properties:
                      extension:
                        description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueBoolean:
                    additionalProperties: false
                    description: Extensions for valueBoolean
                    properties:
                      extension:
                        description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueCanonical:
                    additionalProperties: false
                    description: Extensions for valueCanonical
                    properties:
                      extension:
                        description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueCode:
                    additionalProperties: false
                    description: Extensions for valueCode
                    properties:
                      extension:
                        description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance  applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
                          items:
                            type: array
                        id:
                          description: Unique id for the element within a resource (for
          internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueDate:
                    additionalProperties: false
                    description: Extensions for valueDate
                    properties:
```

```yaml
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueDateTime:
                      additionalProperties: false
                      description: Extensions for valueDateTime
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueDecimal:
                      additionalProperties: false
                      description: Extensions for valueDecimal
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueId:
                      additionalProperties: false
                      description: Extensions for valueId
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                    _valueInstant:
                      additionalProperties: false
                      description: Extensions for valueInstant
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
```

```yaml
            _valueInteger:
              additionalProperties: false
              description: Extensions for valueInteger
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _valueMarkdown:
              additionalProperties: false
              description: Extensions for valueMarkdown
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _valueOid:
              additionalProperties: false
              description: Extensions for valueOid
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _valuePositiveInt:
              additionalProperties: false
              description: Extensions for valuePositiveInt
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
              type: object
            _valueString:
              additionalProperties: false
              description: Extensions for valueString
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
```

```yaml
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueTime:
                    additionalProperties: false
                    description: Extensions for valueTime
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueUnsignedInt:
                    additionalProperties: false
                    description: Extensions for valueUnsignedInt
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueUri:
                    additionalProperties: false
                    description: Extensions for valueUri
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueUrl:
                    additionalProperties: false
                    description: Extensions for valueUrl
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      type: object
                  _valueUuid:
                    additionalProperties: false
                    description: Extensions for valueUuid
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
```

```
definition of the extension'
                    items:
                      type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                  type: object
                extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition the element. To make the use of extensions
safe and manageable, there is a strict set of governance  applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                    type: array
                  id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\S]+$'
                      type: string
                  url:
                      description: Source of the definition for the extension code - a
logical name or a URL
                      pattern: ^\S*$
                      type: string
                valueAddress:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _city:
                        description: Extensions for city
                        type: string
                      _country:
                        description: Extensions for country
                        type: string
                      _district:
                        description: Extensions for district
                        type: string
                      _line:
                        description: Extensions for line
                        items:
                        type: array
                      _postalCode:
                        description: Extensions for postalCode
                        type: string
                      _state:
                        description: Extensions for state
                        type: string
                      _text:
                        description: Extensions for text
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      city:
                        description: 'The name of the city, town, suburb, village or
other community or delivery center'
                        type: string
                      country:
                        description: Country - a nation as commonly understood or
generally accepted
                        type: string
                      district:
                        description: The name of the administrative area (county)
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      line:
```

```yaml
                        description: 'This component contains the house number,
apartment number, street name, street direction,  P.O. Box number, delivery hints,
and similar address information'
                        items:
                          type: array
                    period:
                      description: Time period when address was/is in use
                      type: string
                    postalCode:
                      description: A postal code designating a region defined by the
postal service
                      type: string
                    state:
                      description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
                      type: string
                    text:
                      description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
                      type: string
                    type:
                      description: Distinguishes between physical addresses (those
you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most
addresses are both
                      enum:
                        - postal
                        - physical
                        - both
                    use:
                      description: The purpose of this address
                      enum:
                        - home
                        - work
                        - temp
                        - old
                        - billing
                  type: object
              valueAge:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _code:
                    description: Extensions for code
                    type: string
                  _comparator:
                    description: Extensions for comparator
                    type: string
                  _system:
                    description: Extensions for system
                    type: string
                  _unit:
                    description: Extensions for unit
                    type: string
                  _value:
                    description: Extensions for value
                    type: string
                  code:
                    description: A computer processable form of the unit in some
unit representation system
                    type: string
                  comparator:
                    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                    enum:
                      - <
                      - <=
                      - '>='
                      - >
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
```

```yaml
                        system:
                          description:
The identification of the system that provides the coded form of the unit
                            type: string
                        unit:
                          description: A human-readable form of the unit
                            type: string
                        value:
                          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                            type: string
                      type: object
                    valueAnnotation:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _authorString:
                          description: Extensions for authorString
                          type: string
                        _text:
                          description: Extensions for text
                          type: string
                        _time:
                          description: Extensions for time
                          type: string
                        authorReference:
                          description: The individual responsible for making the
annotation
                          type: string
                        authorString:
                          description: The individual responsible for making the
annotation
                          pattern: '^[ \r\n\t\S]+$'
                          type: string
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        text:
                          description: The text of the annotation in markdown format
                          type: string
                        time:
                          description: Indicates when this particular annotation was
made
                          type: string
                      type: object
                    valueAttachment:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _contentType:
                          description: Extensions for contentType
                          type: string
                        _creation:
                          description: Extensions for creation
                          type: string
                        _data:
                          description: Extensions for data
                          type: string
                        _hash:
                          description: Extensions for hash
                          type: string
                        _language:
                          description: Extensions for language
                          type: string
                        _size:
                          description: Extensions for size
                          type: string
                        _title:
                          description: Extensions for title
                          type: string
                        _url:
                          description: Extensions for url
                          type: string
                        contentType:
```

```yaml
                    description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
                    type: string
                  creation:
                    description: The date that the attachment was first created
                    type: string
                  data:
                    description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
                    type: string
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
                  hash:
                    description: The calculated hash of the data using SHA-1.
Represented using base64
                    type: string
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  language:
                    description: The human language of the content. The value can
be any valid value according to BCP 47
                    type: string
                  size:
                    description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                    type: string
                  title:
                    description: A label or set of text to display in place of the
data
                    type: string
                  url:
                    description: A location where the data can be accessed
                    type: string
                type: object
              valueBase64Binary:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
                type: string
              valueBoolean:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^true|false$
                type: boolean
              valueCanonical:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueCode:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[^\s]+(\s[^\s]+)*$
                type: string
              valueCodeableConcept:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  _text:
                    description: Extensions for text
                    type: string
                  coding:
                    description: A reference to a code defined by a terminology
system
                    items:
                    type: array
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                    type: array
```

```yaml
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            text:
              description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
              type: string
          type: object
        valueCodeableReference:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            concept:
              description:
A reference to a concept - e.g. the information is identified by its general class
to the degree of precision found in the terminology
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            reference:
              description: A reference to a resource the provides exact
details about the information being referenced
              type: string
          type: object
        valueCoding:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _code:
              description: Extensions for code
              type: string
            _display:
              description: Extensions for display
              type: string
            _system:
              description: Extensions for system
              type: string
            _userSelected:
              description: Extensions for userSelected
              type: string
            _version:
              description: Extensions for version
              type: string
            code:
              description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
              type: string
            display:
              description: 'A representation of the meaning of the code in
the system, following the rules of the system'
              type: string
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
            system:
              description:
The identification of the code system that defines the meaning of the symbol in the
code
              type: string
            userSelected:
```

```yaml
                        description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                        type: string
                      version:
                        description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
                        type: string
                    type: object
                  valueContactDetail:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      name:
                        description: The name of an individual to contact
                        type: string
                      telecom:
                        description: The contact details for the individual (if a name
was provided) or the organization
                        items:
                        type: array
                    type: object
                  valueContactPoint:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _rank:
                        description: Extensions for rank
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _use:
                        description: Extensions for use
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      period:
                        description: Time period when the contact point was/is in
use
                        type: string
                      rank:
                        description: Specifies a preferred order in which to use a set
of contacts. ContactPoints with lower rank values are more preferred than those
with higher rank values
                        type: string
                      system:
                        description: Telecommunications form for contact point - what
communications system is required to make use of the contact
                        enum:
                          - phone
                          - fax
```

```yaml
                        - email
                        - pager
                        - url
                        - sms
                        - other
                  use:
                    description: Identifies the purpose for the contact point
                    enum:
                        - home
                        - work
                        - temp
                        - old
                        - mobile
                  value:
                    description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
                    type: string
                type: object
            valueContributor:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _name:
                  description: Extensions for name
                  type: string
                _type:
                  description: Extensions for type
                  type: string
                contact:
                  description: Contact details to assist a user in finding and
communicating with the contributor
                  items:
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                name:
                  description: The name of the individual or organization
responsible for the contribution
                  type: string
                type:
                  description: The type of contributor
                  enum:
                        - author
                        - editor
                        - reviewer
                        - endorser
              type: object
            valueCount:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
```

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                  represented - whether the actual value is greater or less than the stated value
                  due to measurement issues; e.g. if the comparator is < , then the real value is <
                  stated value'
                          enum:
                              - <
                              - <=
                              - '>='
                              - >
                      extension:
                          description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                          items:
                          type: array
                      id:
                          description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                          type: string
                      system:
                          description:
                  The identification of the system that provides the coded form of the unit
                          type: string
                      unit:
                          description: A human-readable form of the unit
                          type: string
                      value:
                          description: The value of the measured amount. The value
                  includes an implicit precision in the presentation of the value
                          type: string
                  type: object
              valueDataRequirement:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
          set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                      _limit:
                          description: Extensions for limit
                          type: string
                      _mustSupport:
                          description: Extensions for mustSupport
                          items:
                          type: array
                      _type:
                          description: Extensions for type
                          type: string
                      codeFilter:
                          description: 'Code filters specify additional constraints on
                  the data, specifying the value set of interest for a particular element of the
                  data. Each code filter defines an additional constraint on the data, i.e. code
                  filters are AND''ed, not OR''ed'
                          items:
                          type: array
                      dateFilter:
                          description: 'Date filters specify additional constraints on
                  the data in terms of the applicable date range for specific elements. Each date
                  filter specifies an additional constraint on the data, i.e. date filters are
                  AND''ed, not OR''ed'
                          items:
                          type: array
                      extension:
                          description: 'May be used to represent additional information
                  that is not part of the basic definition of the element. To make the use of
                  extensions safe and manageable, there is a strict set of governance  applied to
                  the definition and use of extensions. Though any implementer can define an
                  extension, there is a set of requirements that SHALL be met as part of the
                  definition of the extension'
                          items:
                          type: array
                      id:
                          description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                          type: string
                      limit:
                          description: Specifies a maximum number of results that are
                  required (uses the _count search parameter)
                          type: string
                      mustSupport:
                          description: "Indicates that specific elements of the type are
                  referenced by the knowledge module and must be supported by the consumer in order
                  to obtain an effective evaluation. This does not mean that a value is required for
                  this element, only that the consuming system must understand the element and be
                  able to provide values for it if they are available. \n\nThe value of mustSupport
                  SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL
```

```
                    consist only of identifiers, constant indexers, and .resolve() (see the [Simple
                    FHIRPath Profile](fhirpath.html#simple) for full details)"
                              items:
                                type: array
                            profile:
                              description: 'The profile of the required data, specified as
                    the uri of the profile definition'
                              items:
                                type: array
                            sort:
                              description: Specifies the order of the results to be
                    returned
                              items:
                                type: array
                            subjectCodeableConcept:
                              description: 'The intended subjects of the data requirement.
                    If this element is not provided, a Patient subject is assumed'
                                type: string
                            subjectReference:
                              description: 'The intended subjects of the data requirement.
                    If this element is not provided, a Patient subject is assumed'
                                type: string
                            type:
                              description: 'The type of the required data, specified as the
                    type name of a resource. For profiles, this value is set to the type of the base
                    resource of the profile'
                                type: string
                          type: object
                        valueDate:
                          description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
                    (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                          type: string
                        valueDateTime:
                          description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
                    (0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
                    [0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                          type: string
                        valueDecimal:
                          description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
                          type: number
                        valueDistance:
                          additionalProperties: false
                          description: 'Value of extension - must be one of a constrained
                    set of the data types (see [Extensibility](extensibility.html) for a list)'
                          properties:
                            _code:
                              description: Extensions for code
                              type: string
                            _comparator:
                              description: Extensions for comparator
                              type: string
                            _system:
                              description: Extensions for system
                              type: string
                            _unit:
                              description: Extensions for unit
                              type: string
                            _value:
                              description: Extensions for value
                              type: string
                            code:
                              description: A computer processable form of the unit in some
                    unit representation system
                              type: string
                            comparator:
                              description: 'How the value should be understood and
                    represented - whether the actual value is greater or less than the stated value
                    due to measurement issues; e.g. if the comparator is < , then the real value is <
                    stated value'
                              enum:
                                - <
                                - <=
                                - '>='
                                - >
                            extension:
                              description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance  applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
```

```yaml
definition of the extension'
                          items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        system:
                          description:
The identification of the system that provides the coded form of the unit
                          type: string
                        unit:
                          description: A human-readable form of the unit
                          type: string
                        value:
                          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                          type: string
                      type: object
                  valueDosage:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _asNeededBoolean:
                        description: Extensions for asNeededBoolean
                        type: string
                      _patientInstruction:
                        description: Extensions for patientInstruction
                        type: string
                      _sequence:
                        description: Extensions for sequence
                        type: string
                      _text:
                        description: Extensions for text
                        type: string
                      additionalInstruction:
                        description:
Supplemental instructions to the patient on how to take the medication  (e.g. with
meals ortake half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
                        items:
                        type: array
                      asNeededBoolean:
                        description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                        pattern: ^true|false$
                        type: boolean
                      asNeededCodeableConcept:
                        description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
                        type: string
                      doseAndRate:
                        description: The amount of medication administered
                        items:
                        type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      maxDosePerAdministration:
                        description: Upper limit on medication per administration
                        type: string
                      maxDosePerLifetime:
                        description: Upper limit on medication per lifetime of the
patient
                        type: string
                      maxDosePerPeriod:
                        description: Upper limit on medication per unit of time
                        type: string
                      method:
                        description: Technique for administering medication
                        type: string
                      modifierExtension:
```

```yaml
                    description: |-
                      May be used to represent additional information that is not
      part of the basic definition of the element and that modifies the understanding of
      the element in which it is contained and/or the understanding of the containing
      element's descendants. Usually modifier elements provide negation or qualification.
      To make the use of extensions safe and manageable, there is a strict set of
      governance applied to the definition and use of extensions. Though any implementer
      can define an extension, there is a set of requirements that SHALL be met as part
      of the definition of the extension. Applications processing a resource are required
      to check for modifier extensions.
                      Modifier extensions SHALL NOT change the meaning of any
      elements on Resource or DomainResource (including cannot change the meaning of
      modifierExtension itself)
                    items:
                    type: array
                  patientInstruction:
                    description: Instructions in terms that are understood by the
      patient or consumer
                    type: string
                  route:
                    description: How drug should enter body
                    type: string
                  sequence:
                    description: Indicates the order in which the dosage
      instructions should be applied or interpreted
                    type: string
                  site:
                    description: Body site to administer to
                    type: string
                  text:
                    description: Free text dosage instructions e.g. SIG
                    type: string
                  timing:
                    description: When medication should be administered
                    type: string
                type: object
            valueDuration:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained
      set of the data types (see [Extensibility](extensibility.html) for a list)'
              properties:
                _code:
                  description: Extensions for code
                  type: string
                _comparator:
                  description: Extensions for comparator
                  type: string
                _system:
                  description: Extensions for system
                  type: string
                _unit:
                  description: Extensions for unit
                  type: string
                _value:
                  description: Extensions for value
                  type: string
                code:
                  description: A computer processable form of the unit in some
      unit representation system
                  type: string
                comparator:
                  description: 'How the value should be understood and
      represented - whether the actual value is greater or less than the stated value
      due to measurement issues; e.g. if the comparator is < , then the real value is <
      stated value'
                  enum:
                    - <
                    - <=
                    - '>='
                    - >
                extension:
                  description: 'May be used to represent additional information
      that is not part of the basic definition of the element. To make the use of
      extensions safe and manageable, there is a strict set of governance  applied to
      the definition and use of extensions. Though any implementer can define an
      extension, there is a set of requirements that SHALL be met as part of the
      definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
      internal references). This may be any string value that does not contain spaces
                  type: string
                system:
                  description:
      The identification of the system that provides the coded form of the unit
```

```yaml
                          type: string
                        unit:
                          description: A human-readable form of the unit
                          type: string
                        value:
                          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                          type: string
                      type: object
                  valueExpression:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _description:
                        description: Extensions for description
                        type: string
                      _expression:
                        description: Extensions for expression
                        type: string
                      _language:
                        description: Extensions for language
                        type: string
                      _name:
                        description: Extensions for name
                        type: string
                      _reference:
                        description: Extensions for reference
                        type: string
                      description:
                        description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                        type: string
                      expression:
                        description: An expression in the specified language that
returns a value
                        type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      language:
                        description: The media type of the language for the
expression
                        enum:
                          - text/cql
                          - text/fhirpath
                          - application/x-fhir-query
                          - text/cql-identifier
                          - text/cql-expression
                      name:
                        description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
                        type: string
                      reference:
                        description: A URI that defines where the expression is
found
                        type: string
                    type: object
                  valueHumanName:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _family:
                        description: Extensions for family
                        type: string
                      _given:
                        description: Extensions for given
                        items:
                        type: array
                      _prefix:
                        description: Extensions for prefix
                        items:
                        type: array
                      _suffix:
                        description: Extensions for suffix
```

```yaml
                            items:
                              type: array
                            _text:
                              description: Extensions for text
                              type: string
                            _use:
                              description: Extensions for use
                              type: string
                            extension:
                              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                              items:
                                type: array
                            family:
                              description:
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the
family name of a son is the first name of his father
                              type: string
                            given:
                              description: Given name
                              items:
                                type: array
                            id:
                              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                              type: string
                            period:
                              description: Indicates the period of time when this name was
valid for the named person
                              type: string
                            prefix:
                              description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
start of the name'
                              items:
                                type: array
                            suffix:
                              description: 'Part of the name that is acquired as a title due
to academic, legal, employment or nobility status, etc. and that appears at the
end of the name'
                              items:
                                type: array
                            text:
                              description: Specifies the entire name as it should be
displayed e.g. on an application UI. This may be provided instead of or as well as
the specific parts
                              type: string
                            use:
                              description: Identifies the purpose for this name
                              enum:
                                - usual
                                - official
                                - temp
                                - nickname
                                - anonymous
                                - old
                                - maiden
                          type: object
                        valueId:
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          pattern: ^[A-Za-z0-9\-\.]{1,64}$
                          type: string
                        valueIdentifier:
                          additionalProperties: false
                          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                          properties:
                            _system:
                              description: Extensions for system
                              type: string
                            _use:
                              description: Extensions for use
                              type: string
                            _value:
                              description: Extensions for value
                              type: string
                            assigner:
                              description: Organization that issued/manages the
identifier
                              type: string
                            extension:
```

```
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    period:
                      description: Time period during which identifier is/was valid
for use
                      type: string
                    system:
                      description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
                      type: string
                    type:
                      description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
                      type: string
                    use:
                      description: The purpose of this identifier
                      enum:
                        - usual
                        - official
                        - temp
                        - secondary
                        - old
                    value:
                      description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
                      type: string
                  type: object
                valueInstant:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                  type: string
                valueInteger:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^-?([0]|([1-9][0-9]*))$
                  type: number
                valueMarkdown:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: '^[ \r\n\t\S]+$'
                  type: string
                valueMoney:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _currency:
                      description: Extensions for currency
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    currency:
                      description: ISO 4217 Currency Code
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    value:
                      description: Numerical value (with implicit precision)
                      type: string
                  type: object
                valueOid:
```

```yaml
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                    type: string
                valueParameterDefinition:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _documentation:
                      description: Extensions for documentation
                      type: string
                    _max:
                      description: Extensions for max
                      type: string
                    _min:
                      description: Extensions for min
                      type: string
                    _name:
                      description: Extensions for name
                      type: string
                    _type:
                      description: Extensions for type
                      type: string
                    _use:
                      description: Extensions for use
                      type: string
                    documentation:
                      description: A brief discussion of what the parameter is for
and how it is used by the module
                      type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    max:
                      description: The maximum number of times this element is
permitted to appear in the request or response
                      type: string
                    min:
                      description: The minimum number of times this parameter SHALL
appear in the request or response
                      type: string
                    name:
                      description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
                      type: string
                    profile:
                      description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                      type: string
                    type:
                      description: The type of the parameter
                      type: string
                    use:
                      description: Whether the parameter is input or output for the
module
                      type: string
                  type: object
                valuePeriod:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _end:
                      description: Extensions for end
                      type: string
                    _start:
                      description: Extensions for start
                      type: string
                    end:
                      description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                      type: string
                    extension:
```

```yaml
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        start:
                          description: The start of the period. The boundary is
inclusive
                          type: string
                      type: object
                  valuePositiveInt:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^[1-9][0-9]*$
                    type: number
                  valueQuantity:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _code:
                        description: Extensions for code
                        type: string
                      _comparator:
                        description: Extensions for comparator
                        type: string
                      _system:
                        description: Extensions for system
                        type: string
                      _unit:
                        description: Extensions for unit
                        type: string
                      _value:
                        description: Extensions for value
                        type: string
                      code:
                        description: A computer processable form of the unit in some
unit representation system
                        type: string
                      comparator:
                        description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
                        enum:
                          - <
                          - <=
                          - '>='
                          - >
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                        id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                        system:
                          description:
The identification of the system that provides the coded form of the unit
                          type: string
                        unit:
                          description: A human-readable form of the unit
                          type: string
                        value:
                          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                          type: string
                      type: object
                  valueRange:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
```

```yaml
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
              high:
                description: The high limit. The boundary is inclusive
                type: string
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              low:
                description: The low limit. The boundary is inclusive
                type: string
            type: object
          valueRatio:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              denominator:
                description: The value of the denominator
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              numerator:
                description: The value of the numerator
                type: string
            type: object
          valueRatioRange:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              denominator:
                description: The value of the denominator
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
              highNumerator:
                description: The value of the high limit numerator
                type: string
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              lowNumerator:
                description: The value of the low limit numerator
                type: string
            type: object
          valueReference:
            additionalProperties: false
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _display:
                description: Extensions for display
                type: string
              _reference:
                description: Extensions for reference
                type: string
              _type:
                description: Extensions for type
```

```yaml
                          type: string
                      display:
                          description: Plain text narrative that identifies the resource
in addition to the resource reference
                          type: string
                      extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                      id:
                          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      identifier:
                          description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
                          type: string
                      reference:
                          description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
                          type: string
                      type:
                          description: |-
                              The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                              The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                          type: string
                    type: object
                valueRelatedArtifact:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _citation:
                        description: Extensions for citation
                        type: string
                      _display:
                        description: Extensions for display
                        type: string
                      _label:
                        description: Extensions for label
                        type: string
                      _type:
                        description: Extensions for type
                        type: string
                      _url:
                        description: Extensions for url
                        type: string
                      citation:
                        description:
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
                          type: string
                      display:
                          description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
                          type: string
                      document:
                          description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
                          type: string
                      extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
```

```
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                              items:
                              type: array
                        id:
                              description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                              type: string
                        label:
                              description: 'A short label that can be used to reference the
              citation from elsewhere in the containing artifact, such as a footnote index'
                              type: string
                        resource:
                              description: 'The related resource, such as a library, value
              set, profile, or other knowledge resource'
                              type: string
                        type:
                              description: The type of relationship to the related
              artifact
                              enum:
                                - documentation
                                - justification
                                - citation
                                - predecessor
                                - successor
                                - derived-from
                                - depends-on
                                - composed-of
                        url:
                              description: A url for the artifact that can be followed to
              access the actual content
                              type: string
                    type: object
                  valueSampledData:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
              set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _data:
                        description: Extensions for data
                        type: string
                      _dimensions:
                        description: Extensions for dimensions
                        type: string
                      _factor:
                        description: Extensions for factor
                        type: string
                      _lowerLimit:
                        description: Extensions for lowerLimit
                        type: string
                      _period:
                        description: Extensions for period
                        type: string
                      _upperLimit:
                        description: Extensions for upperLimit
                        type: string
                      data:
                        description: 'A series of data points which are decimal values
              separated by a single space (character u20). The special values E (error), L
              (below detection limit) and U (above detection limit) can also be used in place of
              a decimal value'
                        type: string
                      dimensions:
                        description: 'The number of sample points at each time point.
              If this value is greater than one, then the dimensions will be interlaced - all
              the sample points for a point in time will be recorded at once'
                        type: string
                      extension:
                        description: 'May be used to represent additional information
              that is not part of the basic definition of the element. To make the use of
              extensions safe and manageable, there is a strict set of governance  applied to
              the definition and use of extensions. Though any implementer can define an
              extension, there is a set of requirements that SHALL be met as part of the
              definition of the extension'
                        items:
                        type: array
                      factor:
                        description:
              A correction factor that is applied to the sampled data points before they are
              added to the origin
                        type: string
                      id:
                        description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
                        type: string
```

```yaml
                      lowerLimit:
                        description: The lower limit of detection of the measured
points. This is needed if any of the data points have the value L (lower than
detection limit)
                          type: string
                      origin:
                        description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
                          type: string
                      period:
                        description: 'The length of time between sampling times,
measured in milliseconds'
                          type: string
                      upperLimit:
                        description: The upper limit of detection of the measured
points. This is needed if any of the data points have the value U (higher than
detection limit)
                          type: string
                    required:
                      - origin
                    type: object
                  valueSignature:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                      properties:
                        _data:
                          description: Extensions for data
                          type: string
                        _sigFormat:
                          description: Extensions for sigFormat
                          type: string
                        _targetFormat:
                          description: Extensions for targetFormat
                          type: string
                        _when:
                          description: Extensions for when
                          type: string
                      data:
                        description:
The base64 encoding of the Signature content. When signature is not recorded
electronically this element would be empty
                          type: string
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                          type: string
                      onBehalfOf:
                        description: A reference to an application-usable description
of the identity that is represented by the signature
                          type: string
                      sigFormat:
                        description: 'A mime type that indicates the technical format
of the signature. Important mime types are application/signature+xml for X ML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
                          type: string
                      targetFormat:
                        description:
A mime type that indicates the technical format of the target resources signed by
the signature
                          type: string
                      type:
                        description:
An indication of the reason that the entity signed this document. This may be
explicitly included as part of the signature information and can be used when
determining accountability for various actions concerning the document
                          items:
                          type: array
                      when:
                        description: When the digital signature was signed
                          type: string
                      who:
                        description: A reference to an application-usable description
of the identity that signed  (e.g. the signature used their private key)
                          type: string
```

```yaml
                    required:
                      - type
                      - who
                    type: object
                  valueString:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: '^[ \r\n\t\S]+$'
                    type: string
                  valueTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?
$
                    type: string
                  valueTiming:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _event:
                        description: Extensions for event
                        items:
                          type: array
                      code:
                        description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
                        type: string
                      event:
                        description: Identifies specific times when the event
occurs
                        items:
                          type: array
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      modifierExtension:
                        description: |-
                          May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

                          Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
                        items:
                          type: array
                      repeat:
                        description: A set of rules that describe when the event is
scheduled
                        type: string
                    type: object
                  valueTriggerDefinition:
                    additionalProperties: false
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    properties:
                      _name:
                        description: Extensions for name
                        type: string
                      _timingDate:
                        description: Extensions for timingDate
                        type: string
                      _timingDateTime:
                        description: Extensions for timingDateTime
                        type: string
```

```yaml
                _type:
                  description: Extensions for type
                  type: string
                condition:
                  description: A boolean-valued expression that is evaluated in
the context of the container of the trigger definition and returns whether or not
the trigger fires
                  type: string
                data:
                  description: 'The triggering data of the event (if this is a
data trigger). If more than one data is requirement is specified, then all the
data requirements must be true'
                  items:
                  type: array
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                name:
                  description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
                  type: string
                timingDate:
                  description: The timing of the event (if this is a periodic
trigger)
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
                  type: string
                timingDateTime:
                  description: The timing of the event (if this is a periodic
trigger)
                  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
                  type: string
                timingReference:
                  description: The timing of the event (if this is a periodic
trigger)
                  type: string
                timingTiming:
                  description: The timing of the event (if this is a periodic
trigger)
                  type: string
                type:
                  description: The type of triggering event
                  enum:
                    - named-event
                    - periodic
                    - data-changed
                    - data-added
                    - data-modified
                    - data-removed
                    - data-accessed
                    - data-access-ended
                type: object
              valueUnsignedInt:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^[0]|([1-9][0-9]*)$
                type: number
              valueUri:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUrl:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^\S*$
                type: string
              valueUsageContext:
                additionalProperties: false
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                properties:
                  code:
```

```
                      description: A code that identifies the type of context being
specified by this usage context
                        type: string
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance  applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    valueCodeableConcept:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueQuantity:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueRange:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                    valueReference:
                      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
                      type: string
                  required:
                    - code
                  type: object
                valueUuid:
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
                  type: string
              type: object
            type: array
        id:
          description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        status:
          description: 'The status of the narrative - whether it''s entirely
generated (from just the defined data or the extensions too), or whether a human
authored it and it may contain additional data'
          enum:
            - generated
            - extensions
            - additional
            - empty
      required:
        - div
      type: object
      x-ngsi:
        type: Property
  required:
    - id
    - type
  type: object
  x-derived-from: http://hl7.org/fhir/R4B/
  x-disclaimer: 'Redistribution and use in source and binary forms, with or
without modification, are permitted  provided that the license conditions are met.
Copyleft (c) 2022 Contributors to Smart Data Models Program'
  x-license-url: https://github.com/smart-data-models/dataModel.Hl7/blob/master/
Account/LICENSE.md
  x-model-schema: https://smart-data-models.github.io/dataModel.HL7/Account/
schema.json
  x-model-tags: HL7
  x-version: 0.0.1
```

Example payloads

Account NGSI-v2 key-values Example

Here is an example of a Account in JSON-LD format as key-values. This is compatible with NGSI-v2 when using `options=keyValues` and returns the context data of an individual entity.

show/hide example

```json
{
  "resourceType": "Account",
  "id": "example",
  "type": "Account",
  "text": {
    "status": "generated",
    "div": "\u003cdiv xmlns\u003d\"http://www.w3.org/1999/xhtml\"\u003eHACC Funded Billing for Peter James Chalmers\u003c/div\u003e"
  },
  "identifier": [
    {
      "system": "urn:oid:0.1.2.3.4.5.6.7",
      "value": "654321"
    }
  ],
  "status": "active",
  "hl7type": {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
        "code": "PBILLACCT",
        "display": "patient billing account"
      }
    ],
    "text": "patient"
  },
  "name": "HACC Funded Billing for Peter James Chalmers",
  "subject": [
    {
      "reference": "Patient/example",
      "display": "Peter James Chalmers"
    }
  ],
  "servicePeriod": {
    "start": "2016-01-01",
    "end": "2016-06-30"
  },
  "coverage": [
    {
      "coverage": {
        "reference": "Coverage/7546D"
      },
      "priority": 1
    }
  ],
  "owner": {
    "reference": "Organization/hl7"
  },
  "description": "Hospital charges",
  "meta": {
    "tag": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/v3-ActReason",
        "code": "HTEST",
        "display": "test health data"
      }
    ]
```

```
    }
}
```

Account NGSI-v2 normalized Example

Here is an example of a Account in JSON-LD format as normalized. This is compatible with NGSI-v2 when not using options and returns the context data of an individual entity.

show/hide example

```
{
    "type": "Account",
    "resourceType": {
        "type": "Text",
        "value": "Account"
    },
    "id": "example",
    "text": {
        "type": "StructuredValue",
        "value": {
            "status": "generated",
            "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">HACC Funded Billing for Peter James Chalmers</div>"
        }
    },
    "identifier": {
        "type": "array",
        "value": [
            {
                "system": "urn:oid:0.1.2.3.4.5.6.7",
                "value": "654321"
            }
        ]
    },
    "status": {
        "type": "Text",
        "value": "active"
    },
    "hl7type": {
        "type": "StructuredValue",
        "coding": [
            {
                "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
                "code": "PBILLACCT",
                "display": "patient billing account"
            }
        ],
        "text": "patient"
    },
    "name": {
        "type": "Text",
        "value": "HACC Funded Billing for Peter James Chalmers"
    },
    "subject": {
        "type": "array",
        "value": [
            {
                "reference": "Patient/example",
                "display": "Peter James Chalmers"
            }
        ]
    },
    "servicePeriod": {
        "type": "StructuredValue",
        "value": {
            "start": "2016-01-01",
            "end": "2016-06-30"
        }
    },
    "coverage": {
        "type": "array",
        "value": [
            {
                "coverage": {
                    "reference": "Coverage/7546D"
                },
                "priority": 1
```

```
          }
        ]
      },
      "owner": {
        "type": "StructuredValue",
        "value": {
          "reference": "Organization/hl7"
        }
      },
      "description": {
        "type": "Text",
        "value": "Hospital charges"
      },
      "meta": {
        "type": "StructuredValue",
        "value": {
          "tag": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/v3-ActReason",
              "code": "HTEST",
              "display": "test health data"
            }
          ]
        }
      }
    }
  }
}
```

Account NGSI-LD key-values Example

Here is an example of a Account in JSON-LD format as key-values. This is compatible with NGSI-LD when using `options=keyValues` and returns the context data of an individual entity.

show/hide example

```
{
  "resourceType": "Account",
  "id": "example",
  "type": "Account",
  "text": {
    "status": "generated",
    "div": "\u003cdiv xmlns\u003d\"http://www.w3.org/1999/xhtml\"\u003eHACC Funded Billing for Peter James Chalmers\u003c/div\u003e"
  },
  "identifier": [
    {
      "system": "urn:oid:0.1.2.3.4.5.6.7",
      "value": "654321"
    }
  ],
  "status": "active",
  "hl7type": {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
        "code": "PBILLACCT",
        "display": "patient billing account"
      }
    ],
    "text": "patient"
  },
  "name": "HACC Funded Billing for Peter James Chalmers",
  "subject": [
    {
      "reference": "Patient/example",
      "display": "Peter James Chalmers"
    }
  ],
  "servicePeriod": {
    "start": "2016-01-01",
    "end": "2016-06-30"
  },
  "coverage": [
    {
      "coverage": {
        "reference": "Coverage/7546D"
      },
      "priority": 1
```

```json
      }
    ],
    "owner": {
      "reference": "Organization/hl7"
    },
    "description": "Hospital charges",
    "meta": {
      "tag": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/v3-ActReason",
          "code": "HTEST",
          "display": "test health data"
        }
      ]
    },
    "@context": [
      "https://raw.githubusercontent.com/smart-data-models/dataModel.Hl7/master/context.jsonld"
    ]
}
```

Account NGSI-LD normalized Example

Here is an example of a Account in JSON-LD format as normalized. This is compatible with NGSI-LD when not using options and returns the context data of an individual entity.

show/hide example

```json
{
    "resourceType": {
        "type": "Property",
        "value": "Account"
    },
    "id": "example",
    "type": "Account",
    "text": {
        "type": "Property",
        "value": {
            "status": "generated",
            "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">HACC Funded Billing for Peter James Chalmers</div>"
        }
    },
    "identifier": {
        "type": "Property",
        "value": [
            {
                "system": "urn:oid:0.1.2.3.4.5.6.7",
                "value": "654321"
            }
        ]
    },
    "status": {
        "type": "Property",
        "value": "active"
    },
    "hl7type": {
        "type": "Property",
        "coding": [
            {
                "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
                "code": "PBILLACCT",
                "display": "patient billing account"
            }
        ],
        "text": "patient"
    },
    "name": {
        "type": "Property",
        "value": "HACC Funded Billing for Peter James Chalmers"
    },
    "subject": {
        "type": "Property",
        "value": [
            {
                "reference": "Patient/example",
                "display": "Peter James Chalmers"
            }
```

```
        ]
      },
      "servicePeriod": {
        "type": "Property",
        "value": {
          "start": "2016-01-01",
          "end": "2016-06-30"
        }
      },
      "coverage": {
        "type": "Property",
        "value": [
          {
            "coverage": {
              "reference": "Coverage/7546D"
            },
            "priority": 1
          }
        ]
      },
      "owner": {
        "type": "Property",
        "value": {
          "reference": "Organization/hl7"
        }
      },
      "description": {
        "type": "Property",
        "value": "Hospital charges"
      },
      "meta": {
        "type": "Property",
        "value": {
          "tag": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/v3-ActReason",
              "code": "HTEST",
              "display": "test health data"
            }
          ]
        }
      },
      "@context": [
        "https://raw.githubusercontent.com/smart-data-models/dataModel.Hl7/master/context.jsonld"
      ]
}
```

See [FAQ 10](#) to get an answer on how to deal with magnitude units

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