

## Entidad: Cuenta

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Descripción global: **Herramienta financiera para el seguimiento del valor acumulado para un fin determinado. En el ámbito sanitario, se utiliza para hacer un seguimiento de los gastos de un paciente, centros de costes, etc..**

versión: 0.0.1

### Lista de propiedades

[\*] Si no hay un tipo en un atributo es porque puede tener varios tipos o diferentes formatos/patrones,

- `_description[object]`: Ampliaciones de la descripción

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `_implicitRules[object]`: Extensiones para implicitRules

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `_language[object]`: Extensiones lingüísticas

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `_name[object]`: Extensiones del nombre

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se

aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `_status[object]`: Prórrogas del estatuto

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `address[object]`: La dirección postal . Model: <https://schema.org/address>

- `addressCountry[string]`: El país. Por ejemplo, España . Model: <https://schema.org/addressCountry>

- `addressLocality[string]`: La localidad en la que se encuentra la dirección postal, y que está en la región . Model: <https://schema.org/addressLocality>

- `addressRegion[string]`: La región en la que se encuentra la localidad, y que está en el país . Model: <https://schema.org/addressRegion>

- `district[string]`: Un distrito es un tipo de división administrativa que, en algunos países, gestiona el gobierno local

- `postOfficeBoxNumber[string]`: El número del apartado de correos para las direcciones de apartados postales. Por ejemplo, 03578 . Model: <https://schema.org/postOfficeBoxNumber>

- `postalCode[string]`: El código postal. Por ejemplo, 24004 . Model: <https://schema.org/postalCode>

- `streetAddress[string]`: La dirección . Model: <https://schema.org/streetAddress>

- `alternateName[string]`: Un nombre alternativo para este artículo

- `areaServed[string]`: La zona geográfica en la que se presta un servicio o se ofrece un artículo . Model: <https://schema.org/Text>

- `contained[array]`: Estos recursos no tienen una existencia independiente aparte del recurso que los contiene - no pueden ser identificados independientemente, y tampoco pueden tener su propio ámbito de transacción independiente.

- `coverage[array]`: La(s) parte(s) responsable(s) de cubrir el pago de esta cuenta, y en qué orden deben aplicarse a la cuenta

- `dataProvider[string]`: Una secuencia de caracteres que identifica al proveedor de la entidad de datos armonizada

- `dateCreated[date-time]`: Fecha de creación de la entidad. Normalmente será asignada por la plataforma de almacenamiento

- `dateModified[date-time]`: Marca de tiempo de la última modificación de la entidad. Suele ser asignada por la plataforma de almacenamiento

- `description[string]`: Proporciona información adicional sobre lo que rastrea la cuenta y cómo se utiliza

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del recurso. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `guarantor[array]`: Las partes responsables de equilibrar la cuenta si otras opciones de pago se quedan cortas

- `hl7type[object]`: Categoriza la cuenta con fines de información y búsqueda

- `_text[object]`: Extensiones de texto

- `coding[array]`: Referencia a un código definido por un sistema terminológico

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `id[string]`: Id. único del elemento dentro de un recurso (para referencias internas). Puede ser cualquier valor de cadena que no contenga espacios.

- `id[*]`: Identificador único de la entidad

- `identifier[array]`: Identificador único utilizado para hacer referencia a la cuenta. Puede estar

destinado o no al uso humano (por ejemplo, número de tarjeta de crédito).

- `implicitRules[string]`: Referencia a un conjunto de normas que se siguieron al construir el recurso y que deben entenderse al procesar el contenido. A menudo, se trata de una referencia a una guía de implementación que define las reglas especiales junto con otros perfiles, etc.

- `language[string]`: La lengua de base en la que está escrito el recurso

- `location[*]`: Referencia Geojson al elemento. Puede ser Point, LineString, Polygon, MultiPoint, MultiLineString o MultiPolygon.

- `meta[object]`: Los metadatos sobre el recurso. Se trata de contenido mantenido por la infraestructura. Es posible que los cambios en el contenido no siempre estén asociados a cambios en la versión del recurso.

- `_lastUpdated[object]`: Extensiones para lastUpdated

- `_source[object]`: Extensiones para la fuente

- `_versionId[object]`: Extensiones para versionId

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `id[string]`: Id. único del elemento dentro de un recurso (para referencias internas). Puede ser cualquier valor de cadena que no contenga espacios.

- `lastUpdated[string]`: Cuándo se modificó el recurso por última vez - por ejemplo, cuándo cambió la versión

- `profile[array]`: Una lista de perfiles (referencias a recursos [[[StructureDefinition]]]) que este recurso afirma cumplir. La URL es una referencia a [[[StructureDefinition.url]]].

- `security[array]`: Etiquetas de seguridad aplicadas a este recurso. Estas etiquetas conectan recursos específicos a la política e infraestructura de seguridad global

- `source[string]`: Un uri que identifica el sistema fuente del recurso. Esto proporciona una cantidad mínima de información de [[[Procedencia]]] que se puede utilizar para rastrear o diferenciar la fuente de información en el recurso. La fuente puede identificar otro servidor FHIR, documento, mensaje, base de datos, etc.

- `tag[array]`: Etiquetas aplicadas a este recurso. Las etiquetas se utilizan para identificar y relacionar recursos con procesos y flujos de trabajo, y no es necesario que las aplicaciones tengan en cuenta las etiquetas al interpretar el significado de un recurso.

- `modifierExtension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del recurso y que modifica la comprensión del elemento que lo contiene y/o la comprensión de los descendientes de los elementos que lo contienen. Normalmente, los elementos modificadores proporcionan negación o cualificación. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y uso de las mismas. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión. Las aplicaciones que procesan un recurso deben comprobar si existen extensiones modificadoras.

Las extensiones modificadoras NO DEBEN cambiar el significado de ningún elemento de Resource o DomainResource (incluido el significado de la propia modifierExtension).

- `name[string]`: Nombre utilizado para la cuenta cuando se muestra a los humanos en informes, etc.

- `owner[object]`: Indica el área de servicio, hospital, departamento, etc. responsable de la gestión de la Cuenta

- `_display[object]`: Ampliaciones de pantalla

- `_reference[object]`: Ampliaciones de referencia

- `_type[object]`: Extensiones de tipo

- `display[string]`: Texto sin formato que identifica el recurso además de la referencia del recurso.

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `id[string]`: Id. único del elemento dentro de un recurso (para referencias internas). Puede ser cualquier valor de cadena que no contenga espacios.

- `identifier[object]`: Un identificador para el recurso de destino. Se utiliza cuando no hay forma de hacer referencia al otro recurso directamente, ya sea porque la entidad que representa no

está disponible a través de un servidor FHIR o porque no hay forma de que el autor del recurso convierta un identificador conocido en una ubicación real. No es necesario que un `Reference.identifier` apunte a algo que esté realmente expuesto como una instancia FHIR, pero Sí que apunte a un concepto de negocio que se esperaría que estuviera expuesto como una instancia FHIR, y esa instancia tendría que ser de un tipo de recurso FHIR permitido por la referencia.

- `reference[string]`: Una referencia a la ubicación en la que se encuentra el otro recurso. La referencia puede ser una referencia relativa, en cuyo caso es relativa a la URL base del servicio, o una URL absoluta que resuelve a la ubicación en la que se encuentra el recurso. La referencia puede ser específica de una versión o no. Si la referencia no es a un servidor RESTful de FHIR, entonces debe asumirse que es específica de la versión. Las referencias a fragmentos internos (empiezan por "#") se refieren a recursos contenidos

- `partOf[object]`: Referencia a una cuenta principal

- `_display[object]`: Ampliaciones de pantalla

- `_reference[object]`: Ampliaciones de referencia

- `_type[object]`: Extensiones de tipo

- `display[string]`: Texto sin formato que identifica el recurso además de la referencia del recurso.

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `id[string]`: Id. único del elemento dentro de un recurso (para referencias internas). Puede ser cualquier valor de cadena que no contenga espacios.

- `identifier[object]`: Un identificador para el recurso de destino. Se utiliza cuando no hay forma de hacer referencia al otro recurso directamente, ya sea porque la entidad que representa no está disponible a través de un servidor FHIR o porque no hay forma de que el autor del recurso convierta un identificador conocido en una ubicación real. No es necesario que un `Reference.identifier` apunte a algo que esté realmente expuesto como una instancia FHIR, pero Sí que apunte a un concepto de negocio que se esperaría que estuviera expuesto como una instancia FHIR, y esa instancia tendría que ser de un tipo de recurso FHIR permitido por la referencia.

- `reference[string]`: Una referencia a la ubicación en la que se encuentra el otro recurso. La referencia puede ser una referencia relativa, en cuyo caso es relativa a la URL base del servicio, o una URL absoluta que resuelve a la ubicación en la que se encuentra el recurso. La referencia puede ser específica de una versión o no. Si la referencia no es a un servidor RESTful de FHIR, entonces debe asumirse que es específica de la versión. Las referencias a fragmentos internos (empiezan por "#") se refieren a recursos contenidos

- `resourceType[string]`: Este es un recurso de Cuentas

- `seeAlso[*]`: lista de uri que apuntan a recursos adicionales sobre el artículo

- `servicePeriod[object]`: El intervalo de fechas de los servicios asociados a esta cuenta

- `_end[object]`: Extensiones para final

- `_start[object]`: Ampliaciones para el inicio

- `end[string]`: El final del periodo. Si falta el final del periodo, significa que no se conocía o no se había planificado el final en el momento de crear la instancia. El inicio puede estar en el pasado y la fecha de finalización en el futuro, lo que significa que se espera que el periodo finalice en ese momento.

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `id[string]`: Id. único del elemento dentro de un recurso (para referencias internas). Puede ser cualquier valor de cadena que no contenga espacios.

- `source[string]`: Secuencia de caracteres que indica la fuente original de los datos de la entidad en forma de URL. Se recomienda que sea el nombre de dominio completo del proveedor de origen o la URL del objeto de origen.

- `status[string]`: Indica si la cuenta se utiliza/puede utilizarse actualmente o no

- `subject[array]`: Identifica a la entidad que incurre en los gastos. Aunque los destinatarios inmediatos de los servicios o bienes pueden ser entidades relacionadas con el sujeto, los gastos fueron realizados en última instancia por el sujeto de la Cuenta

- `text[object]`: Una narración legible por humanos que contiene un resumen del recurso y puede utilizarse para representar el contenido del recurso a un humano. No es necesario que la narración codifique todos los datos estructurados, pero debe contener detalles suficientes para que un ser humano pueda leerla sin riesgo clínico. Las definiciones de los recursos pueden definir qué contenido

debe representarse en la descripción para garantizar la seguridad clínica.

- `_status[object]`: Prórrogas del estatuto

- `div[*]`: El contenido narrativo real, una versión simplificada de XHTML

- `extension[array]`: Puede utilizarse para representar información adicional que no forma parte de la definición básica del elemento. Para que el uso de extensiones sea seguro y manejable, se aplica un estricto conjunto de normas a la definición y el uso de extensiones. Aunque cualquier implementador puede definir una extensión, existe un conjunto de requisitos que DEBEN cumplirse como parte de la definición de la extensión

- `id[string]`: Id. único del elemento dentro de un recurso (para referencias internas). Puede ser cualquier valor de cadena que no contenga espacios.

Propiedades requeridas

- `id`

- `type`

Modelo de datos extraído de la versión original 4.3 del estándar HL7. El atributo original `-type-` ha sido renombrado a `-hl7type-` debido al conflicto con el tipo obligatorio en NGSi. Además se han realizado otras adaptaciones menores. Véase <https://github.com/smart-data-models/dataModel.HL7/blob/master/README.md> en la raíz del tema

## Descripción de las propiedades del modelo de datos

Ordenados alfabéticamente (pulse para más detalles)

**full yaml details**

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

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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: ^\$*\$
              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:

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

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

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    _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
      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.
        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:

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        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

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definition of the extension'
  items:
    type: array
  id:
    description: 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

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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

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    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]))(-([0-9]|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]))(-([0-9]|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 or take 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:
      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
        type: string
      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:
  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
    value0id:
    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:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: array
  id:
    description: 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
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
    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

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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:

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    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:

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        additionalProperties: 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)'

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    pattern: ^\$*\$
    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: ^\$*\$
    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
  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:

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

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    _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:

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        description: Unique id 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:
        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:
        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:
        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:
        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:
        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

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definition of the extension'
  items:
    type: array
  id:
    description: Unique id 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

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

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    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:
    _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:
        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|(\+|-)(([0-9]|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:

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        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:
            _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

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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

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

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

```



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    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

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        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

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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)'
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: 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

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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
  _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

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extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
  items:
    type: array
  id:
    description: Unique id 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:

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

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    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

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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]+$'
    type: string
  url:
    description: Source of the definition for the extension code - a
logical name or a URL
    pattern: ^\$*$
    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

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    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:

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        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
                type: string
        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:

```

```

    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
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
          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:
                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 or take 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:

```

```

        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

```

```

    _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

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definition of the extension'
  items:
    type: array
  id:
    description: 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|([+|-])([0-9]|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]+$'
    type: string
  valueMoney:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _currency:
        description: Extensions for currency
        type: string
      _value:
        description: Extensions for value
        type: string
      currency:
        description: ISO 4217 Currency Code
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        value:
          description: Numerical value (with implicit precision)
          type: string
        type: object
      valueOid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:oid:[0-2](\\.([0-9]|1[0-9][0-9]*))+$
        type: string
      valueParameterDefinition:

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        additionalProperties: 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

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definition of the extension'
  items:
    type: array
  id:
    description: 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

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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

```



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

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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
    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
          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)
      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: ^\$*$
      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: ^\$*$
      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
    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:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: array
            id:
              description: Unique id 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:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
          id:

```



```

        description: Unique id 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:
        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:
        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:
        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:
        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:
        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]+$'
      type: string
    url:
      description: Source of the definition for the extension code - a
logical name or a URL
      pattern: ^S*$
      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 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
            type: string
        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.
      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\+=])\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:
          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
                    - 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:
                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 or take 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:
    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
      _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:
    type: string
    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
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    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
    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: array
  id:
    description: 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

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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

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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

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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
    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:

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        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

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        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]+)?'
$

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    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

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

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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
  _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

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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
      _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

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extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
  items:
    type: array
  id:
    description: Unique id 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:

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        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    type: object
    _value0id:
        additionalProperties: false
        description: Extensions for value0id
        properties:
        extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
            type: array
        id:
            description: Unique id 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:

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    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

```

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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:

```

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        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

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    _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:
              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

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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
    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:
    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:

```

```

        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 or take 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:
            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
      _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|(\+|(-)([0-9]|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:
            description: 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
        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
- 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
            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)
      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
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
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:
            - 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:
        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

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```

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]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]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:
    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

```

```

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:
        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)'
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](\\.([0-9]{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
    priority:
    description: The priority of the coverage in the context of this
account
    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:
      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
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
```

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

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

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```

        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: ^~?([0-9]([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:
        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]+$'
        type: string
    url:
        description: Source of the definition for the extension code - a
logical name or a URL
        pattern: ^\S*$
        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
      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

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```

definition of the extension'
    items:
        type: string
        type: array
    id:
        description: Unique id 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]+$'
    type: string
text:
    description:
Specifies the entire address as it should be displayed e.g. on a postal label. This
may be provided instead of or as well as the specific parts
    pattern: '^[ \r\n\t\S]+$'
    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:
        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)'
      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
  id:
    description: 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
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: string
        type: array
      id:
        description: Unique id 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]*$'
            type: number
        title:
            description: A label or set of text to display in place of the
data
            pattern: '^[ \r\n\t\S]+$'
            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
                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
        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]+$'
    type: string
  type: object
  valueContactDetail:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _name:
        additionalProperties: false
        description: Extensions for name
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
            type: object
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            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:
            type: string
          type: array
      id:
        description: Unique id 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:

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        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
    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

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

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        type: string
        type: array
    id:
        description: Unique id 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'
        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'

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    items:
      type: string
    type: array
  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

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    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]+$'
    type: string
  limit:
    description: Specifies a maximum number of results that are
required (uses the _count search parameter)
    pattern: ^[1-9][0-9]*$
    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

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    _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:
    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{0-1}$
    type: string
  type: object
  valueType:
    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|00)|1-9|000)(-(0[1-9]|
1[0-2])-(0[1-9]|1-2)[0-9]|3[0-1]))?.$
    type: string
  valueTypeTime:
    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|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:

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```

    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:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though 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: string
          type: array
        id:
          description: Unique id 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
        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

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extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: Unique id 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 or take 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
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
    items:
      type: string
    type: array
  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
    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
      _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:

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```

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

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    _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
          type: array
        id:
          description: Unique id 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
        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:
    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
        - 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:

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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]+$'
type: string
value:
description: Numerical value (with implicit precision)
pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
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:

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        description: Unique id 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

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    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]+))*$
      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[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

```

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

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```

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

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```

    _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
    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
        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
    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: 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: 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)-
([0-9]([0-9]([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|\\+|\\-)(([0-9]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
    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: 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
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: string
        type: array
      id:
        description: 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:
        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
- 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
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]*)$
      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
  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
    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
```

```

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

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        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
  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|(\+|-)(([0-9]|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

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        type: array
      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:
    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:

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        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

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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

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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|\\+|-)(([0-9]|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](\\.([0-9][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:

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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)'
        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
    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

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

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extension'
    items:
      type: string
      type: array
    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

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definition of the extension'
  items:
    type: array
  id:
    description: Unique id 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

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that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though 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
    _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

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    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

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        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

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    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
    enum:
      - home
      - work
      - temp
      - old
      - billing

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```

    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
          type: string
      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

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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'

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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
    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

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```

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:
                    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
        - 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:
      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
    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])?(-([0-9]|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]|2[0-3]):[0-5][0-9]:([0-5][0-9]|14:00))?)?$
    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 or take 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:
            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
            _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:
        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](\\.([0-9][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:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                type: array
            id:
                description: 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
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
                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
    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)
            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
        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]+$'
        type: string
      text:
        description: A human language representation of the concept as seen/
selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
        pattern: '^[ \r\n\t\S]+$'
        type: string
        type: object
      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
        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
      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
      type: string
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: string
      type: array
    id:
      description: 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
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any 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)'
            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[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[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[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:
          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
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]+$'
        type: string
      start:
        description: The start of the period. The boundary is inclusive
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])|(- (0[1-9]|1[0-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
        type: string
      type: object
    system:
      description: 'Establishes the namespace for the value - that is, a URL
that describes a set values that are unique'
      pattern: ^\$*
      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:
            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:
      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:
          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:
            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:
    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)'
        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]*$
        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
    _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
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: 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:
        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[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:
          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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        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:

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        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

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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]+)?$

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        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)'
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        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)'
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        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)'
```

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        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)'
```

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        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)'
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        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)'
```

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        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)'
```

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        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)'
```

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        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)'
```

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        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)'
```

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        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)'
```

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        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)'
```

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        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)'
```

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        pattern: ^[1-9][0-9]*$
        type: number
        valueQuantity:
          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
    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

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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,
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

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extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: array
    id:
      description: Unique id 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:

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

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    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

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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
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
          type: string
        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:
                        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
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
    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:
        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 or take 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:
      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
- \_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

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|(\+|-)(([0-9]|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
    value0id:
        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:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: array
            id:
                description: 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
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:

```

that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'

```

      items:
        type: array
      id:
        description: 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:

```

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"

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
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)
        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]00)|[1-9]000)-([01-9]|
1[0-2]))-(0[1-9]|1[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
    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
        id:
          description: Unique id 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:
    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

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internal references). This may be any string value that does not contain spaces

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    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]+$'
    type: string
  type: object
  type: array
  versionId:
    description: 'The version specific identifier, as it appears in the
version portion of the URL. This value changes when the resource is created,
updated, or deleted'
    pattern: ^[A-Za-z0-9\-\.\.]{1,64}$
    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

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extension'
    items:
      type: string
      type: array
    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:
      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

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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
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
        type: array
      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

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

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definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
    items:
      type: string
    type: array
  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
  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

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

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    _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

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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

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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:
    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

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        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]+$'
    type: string
  url:
    description: Source of the definition for the extension code - a
logical name or a URL
    pattern: ^\S*$
    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'

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        items:
          type: string
          type: array
      id:
        description: Unique id 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
        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

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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]+$'
      type: string
    country:
      description:
Country - a nation as commonly understood or generally accepted
      pattern: '^[\r\n\t\S]+$'
      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

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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
    - 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
      id:
        description: Unique id 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: ^\$*\$
        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:
                            type: string
                        type: array
                    id:
                        description: Unique id 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

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```

    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
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id 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

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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: string
      type: array
    id:
      description: Unique id 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
        _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:

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        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an 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.
        type: string
    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]*)$'
        type: number
    title:
        description: A label or set of text to display in place of the
data
        pattern: '^[ \r\n\t\S]+$'
        type: string
    url:
        description: A location where the data can be accessed
        pattern: '^S*$'
        type: string
    type: object
    valueBase64Binary:
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: '^([0-9a-zA-Z\\+\\/]{4}\\s*)+$'
        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:

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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
    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

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    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
  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:

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

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definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'

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

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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
      pattern: '^[ \r\n\t\S]+$'
      type: string
    period:
      additionalProperties: false
      description: Time period when the contact point was/is in use
      properties:
        _end:
          description: Extensions for end
          type: string
        _start:
          description: Extensions for start
          type: string
      end:
        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: string
          type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      start:
        description: The start of the period. The boundary is
inclusive
        type: string
      type: object
    rank:
      description: Specifies a preferred order in which to use a set of
contacts. ContactPoints with lower rank values are more preferred than those with
higher rank values
      pattern: ^[1-9][0-9]*$
      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

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extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: Unique id 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
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'
          items:
            type: string
          type: array
        id:
          description: Unique id 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]+)*$
            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]+$'
      type: string
    value:
      description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
      pattern: '^-(?([0-9][0-9]*)\\.([0-9]+)?([eE][+-]?[0-9]+)?$'
      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]+$'
    type: string
  limit:
    description: Specifies a maximum number of results that are
required (uses the _count search parameter)
    pattern: '^[1-9][0-9]*$'
    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 is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
                type: string
            type: array
        id:
            description: 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
    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|00)|1-9|000))(-([01-9]|
1[0-2])(-([01-9]|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|00)|1-9|000))(-([01-9]|
1[0-2])(-([01-9]|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
          _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
```



```

        description: Unique id 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
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                type: array
            id:
                description: Unique id 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 or take 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
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
          type: array
      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
    _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
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'

```

```

      items:
        type: string
      type: array
    id:
      description: 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:
      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
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:
        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
        type: array
      id:
        description: Unique id 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
  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:
        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
        - 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]+$'
        type: string
        type: object
    valueInstant:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: '^([0-9]([0-9]([0-9]([1-9]|1-9]0)|[1-9]00)|[1-9]000)-([0-9]|
1[0-2])-([0-9]|1-2)[0-9]|3[0-1])T([0-9]([0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\
[0-9]+)?(Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00)))$'
      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]+$'
    type: string
  value:
    description: Numerical value (with implicit precision)
    pattern: ^-?(0|[1-9][0-9]*)\.([0-9]+)?([eE][+-]?[0-9]+)?$
    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]*))$'
        type: number
      name:
        description: The name of the parameter used to allow access to the
value of the parameter in evaluation contexts
        pattern: '^[^\\s]+(\\s[\\^\\s]+)*$'
        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[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
    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:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                    type: array
    id:
        description: Unique id 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]+$'
        type: string
    system:
        description: The identification of the system that provides the
coded form of the unit
        pattern: ^\$*$
        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
    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:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: 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:
            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
        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

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        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
    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:

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        type: string
        type: array
    id:
        description: Unique id 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:
        - 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
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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

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    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: 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

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extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: Unique id 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
      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'
      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
                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
      type: array
    id:
      description: 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]+)*$
    type: string
  targetFormat:
    description:
A mime type that indicates the technical format of the target resources signed by
the signature
    pattern: ^([^\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
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: string
      type: array
    id:
      description: 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
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
          id:
            description: 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:
    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
              - 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
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]*)$
        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
    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
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:
    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)'
        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(0[1][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:
          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*$'
          type: string
        valueUsageContext:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
          type: string
        valueUuid:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
          pattern: '^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}$'

```

```

{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
            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)'
        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]*$'
        type: number
    valueQuantity:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueRange:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueRatio:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueRatioRange:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueReference:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueRelatedArtifact:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueSampledData:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueSignature:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueString:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: '^[ \r\n\t\S]+$'
        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
    _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:
        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)'
        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|(\+|-)(([0-9]|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:
          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
    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:
                    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:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: array
            id:
              description: Unique id 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
definition of the extension'
            items:
            type: array
    id:
        description: Unique id 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
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
      type: string
    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:

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    additionalProperties: 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

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the system, following the rules of the system'

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

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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
    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
            - 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:

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    _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

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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'

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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
    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

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    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 or take 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

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definition of the extension'
  items:
    type: array
  id:
    description: 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'

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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
      - 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

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    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
        - 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|(\+|-)(([0-9]|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
    value0id:
      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:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
                type: array
        id:
            description: 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
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
    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
      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)
                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
    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

```

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    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

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    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
        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[2-9]|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[2-9]|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]+$'
    type: string
    valueMoney:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueOid:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
      pattern: ^urn:oid:[0-2](\\.([0-9]|1[0-9][0-9]*))+
    type: string
    valueParameterDefinition:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valuePeriod:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valuePositiveInt:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
      pattern: ^[1-9][0-9]*$
    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
        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

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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: string
    type: array
  id:
    description: 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]+$'
      type: string
    type: object
  reference:
    description: "A reference to a location at which the other resource is
found. The reference may be a relative reference, in which case it is relative to
the service base URL, or an absolute URL that resolves to the location where the
resource is found. The reference may be version specific or not. If the reference
is not to a FHIR RESTful server, then it should be assumed to be version specific.
Internal fragment references (start with '#') refer to contained resources"
    pattern: '^[ \r\n\t\S]+$'
    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)
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    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,
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)'
    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]*$'
    type: number
    valueQuantity:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueRange:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueRatio:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueRatioRange:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueReference:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueRelatedArtifact:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueSampledData:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueSignature:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueString:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^[ \r\n\t\S]+$'
    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
    _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
    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)'
    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[0-9]|2[0-9]|3[0-1])T(0[1][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

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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
    _type:
      additionalProperties: false
      description: Extensions for type

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    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any 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)'

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        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

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list)'
        pattern: ^urn:oid:[0-2](\\.([0-9]{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)''

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        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)'
```

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        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)'
```

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        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)'
```

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        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'
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        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'
```

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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
        _valueBoolean:

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    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

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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
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though 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
    _value0id:
        additionalProperties: false
        description: Extensions for value0id
        properties:
        extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
            type: array
    id:
        description: Unique id 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

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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
  _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: ^\$*\$
              type: string
          valueAddress:

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    additionalProperties: 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
addresses are both
        enum:
          - postal
          - physical

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- 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

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        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.
            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:

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        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

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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
    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:

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        description: 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:
                description: Extensions for name
                type: string
            _type:
                description: Extensions for type

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```

        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:
        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])(-[0-9]|1[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])(-[0-9]|1[0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)(([0-9]|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

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

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```

    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:
            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
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)
      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
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
    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
    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)'
```

```

        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|([+\\-])([0-9]|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]+$'
    type: string
    valueMoney:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueOid:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^urn:oid:[0-2](\\.([0-9][0-9]*))+
    type: string
    valueParameterDefinition:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valuePeriod:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valuePositiveInt:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^[1-9][0-9]*$
    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]+$'
        type: string
      period:
        additionalProperties: false
        description: Time period during which identifier is/was valid for
use
      properties:
        _end:
          description: Extensions for end
          type: string
        _start:
          description: Extensions for start
          type: string
        end:
          description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
          type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
          type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      start:
        description: The start of the period. The boundary is
inclusive
        type: string
      type: object
      system:
        description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
        pattern: ^\S*$
        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
      - 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
  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
    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)'
```

```

        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|([+\\-])([0-9]|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]+$'
    type: string
    valueMoney:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueOid:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^urn:oid:[0-2](\\.([0-9][0-9]*))+
    type: string
    valueParameterDefinition:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valuePeriod:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valuePositiveInt:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^[1-9][0-9]*$
    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
  _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:
        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

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    _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:

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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
        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

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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:
    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

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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]+$'
      type: string
    type: object
  end:
    description: 'The end of the period. If the end of the period is missing, it means no end was known or planned at the time the instance was created. The start may be in the past, and the end date in the future, which means that period is expected/planned to end at that time'
    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-([0-1-9]|1[0-2])(-([0-1-9]|1-2)[0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?(Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?$
    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

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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'

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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
    _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

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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'

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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
  _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

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    properties:
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
        id:
          description: Unique id 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
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
            type: string
          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:
                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
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
            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:
        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 or take 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:
    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
        _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:
          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:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:

```

```

        type: array
      id:
        description: 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
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

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```

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
        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)'
```

```
    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)'
```

```

        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: 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
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to

```

the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'

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

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

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
    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

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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|(\+|-)(([0-9]|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

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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
    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
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: array
                id:
                  description: Unique id 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:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: array
            id:
              description: Unique id 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
              _value0id:
                additionalProperties: false
                description: Extensions for value0id
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: array
                    id:
                      description: Unique id 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:
        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:
        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:
        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:
        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:
        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
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
      type: string
    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:
    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:

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        description: 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
                    - 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

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    _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

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definition of the extension'
  items:
    type: array
  id:
    description: 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])(-[0-9]|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])(-[0-9]|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

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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 or take 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

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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
    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)
      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:
        - <
        - <=

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

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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
        - 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:

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        additionalProperties: 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|(\+|-)(([0-9]|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

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        extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
                type: array
            id:
                description: 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](\\.([0-9]{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

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

```

## Ejemplo de carga útil

### Cuenta NGSI-v2 key-values Ejemplo

He aquí un ejemplo de una Cuenta en formato JSON-LD como key-values. Esto es compatible con NGSI-v2 cuando se utiliza `options=keyValues` y devuelve los datos de contexto de una entidad individual.

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

```

## Cuenta NGSI-v2 normalizada Ejemplo

He aquí un ejemplo de una Cuenta en formato JSON-LD normalizado. Esto es compatible con NGSI-v2 cuando no se utilizan opciones y devuelve los datos de contexto de una entidad individual.

### 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"
        }
      ]
    }
  }
}

```

### Cuenta NGSi-LD key-values Ejemplo

He aquí un ejemplo de una Cuenta en formato JSON-LD como key-values. Esto es compatible con NGSi-LD cuando se utiliza `options=keyValues` y devuelve los datos de contexto de una entidad individual.

### show/hide example

```

{
  "resourceType": "Account",
  "id": "example",
  "type": "Account",
  "text": {
    "status": "generated",
    "div": "\u003cdiv xmlns\u003d\u003d\u0026quot;http://www.w3.org/1999/xhtml\u0026quot;\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"
    }
  ]
},
"@context": [
  "https://raw.githubusercontent.com/smart-data-models/dataModel.HL7/master/context.jsonld"
]
}

```

### Cuenta NGSI-LD normalizada Ejemplo

He aquí un ejemplo de una Cuenta en formato JSON-LD normalizado. Esto es compatible con NGSI-LD cuando no se utilizan opciones y devuelve los datos de contexto de una entidad individual.

#### show/hide example

```

{
  "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"
  ]
}

```

Consulte [FAQ\\_10](#) para obtener una respuesta sobre cómo tratar las unidades de magnitud.

