



实体：账户

[开放许可](#)

[文件自动生成](#)

全局描述：一种财务工具，用于追踪为特定目的累积的价值。在医疗保健领域，用于跟踪病人、成本中心等的收费。

版本：0.0.1

属性列表

[*] 如果属性中没有类型，是因为它可能有多个类型或不同的格式/模式。

- `_description[object]`: 描述的扩展

- `_extension[array]`: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求

- `_implicitRules[object]`: 隐式规则的扩展

- `_extension[array]`: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求

- `_language[object]`: 语言扩展

- `_extension[array]`: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求

- `_name[object]`: 名称的扩展名

- `_extension[array]`: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求

- `_status[object]`: 身份延期

- `_extension[array]`: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于

管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求

- address[object]: 邮寄地址 . Model: <https://schema.org/address>
 - addressCountry[string]: 国家。例如，西班牙 . Model: <https://schema.org/addressCountry>
 - addressLocality[string]: 街道地址所在的地点，以及该地点所在的区域 . Model: <https://schema.org/addressLocality>
 - addressRegion[string]: 地点所在的地区，以及该地区位于哪个国家 . Model: <https://schema.org/addressRegion>
 - district[string]: 地区是一种行政区划，在一些国家由地方政府管理
 - postOfficeBoxNumber[string]: 用于邮政信箱地址的邮政信箱号码。例如：03578 . Model: <https://schema.org/postOfficeBoxNumber>
 - postalCode[string]: 邮政编码。例如：24004 . Model: <https://schema.org/postalCode>
 - streetAddress[string]: 街道地址 . Model: <https://schema.org/streetAddress>
- alternateName[string]: 该项目的替代名称
- areaServed[string]: 提供服务或提供物品的地理区域 . Model: <https://schema.org/Text>
- contained[array]: 除了包含这些资源的资源之外，这些资源并不独立存在--它们无法独立识别，也没有自己独立的事务范围
- coverage[array]: 负责支付该账户款项的一方或多方，以及应按何种顺序向该账户付款
- dataProvider[string]: 标识统一数据实体提供者的字符序列
- dateCreated[date-time]: 实体创建时间戳。通常由存储平台分配
- dateModified[date-time]: 实体最后一次修改的时间戳。通常由存储平台分配
- description[string]: 提供有关账户跟踪内容和使用方式的更多信息
- extension[array]: 可用于表示不属于资源基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求
- guarantor[array]: 如果其他付款方式无法支付，负责平衡账户的各方
- hl7type[object]: 为报告和搜索目的对账户进行分类
 - _text[object]: 文本扩展
 - coding[array]: 对术语系统定义的代码的引用
- extension[array]: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求
- id[string]: 资源中元素的唯一 ID（用于内部引用）。可以是任何不含空格的字符串值
- id[*]: 实体的唯一标识符
- identifier[array]: 用于引用账户的唯一标识符。可能供人使用，也可能不供人使用（如信用卡号）
- implicitRules[string]: 对资源构建时所遵循的一系列规则的引用，在处理内容时必须理解这些规则。通常，这是对实施指南的引用，该指南与其他配置文件一起定义了特殊规则等。
- language[string]: 资源的基础语言
- location[*]: 项目的 Geojson 引用。它可以是点、线条字符串、多边形、多点、多线条字符串或多边形
- meta[object]: 资源的元数据。这是由基础架构维护的内容。内容的更改不一定总是与资源的版本更改相关联。
 - _lastUpdated[object]: lastUpdated 的扩展名
 - _source[object]: 源的扩展
 - _versionId[object]: 版本标识的扩展
- extension[array]: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义

的一部分，必须满足一系列要求

- **id**[string]: 资源中元素的唯一 ID（用于内部引用）。可以是任何不含空格的字符串值
 - **lastUpdated**[string]: 资源上次更改的时间--例如版本更改的时间
 - **profile**[array]: 该资源声称符合的配置文件（对[[StructureDefinition]]资源的引用）列表。URL 是对[[StructureDefinition.url]]的引用。
 - **security**[array]: 应用于该资源的安全标签。这些标签将特定资源与整体安全策略和基础架构连接起来
 - **source**[string]: 标识资源来源系统的 uri。这提供了最低限度的[[出处]]信息，可用于跟踪或区分资源中的信息来源。来源可标识另一个 FHIR 服务器、文档、消息、数据库等。
 - **tag**[array]: 应用于该资源的标记。标签旨在用于识别资源并将其与流程和工作流联系起来，应用程序在解释资源的含义时不必考虑标签。
 - **modifierExtension**[array]: 可用于表示不属于资源基本定义的附加信息，这些信息修改了对包含该元素的元素的理解和/或对包含该元素的后代的理解。修饰符元素通常提供否定或限定。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实现者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求。处理资源的应用程序必须检查修改器扩展。

修改器扩展不得改变资源或域资源上任何元素的含义（包括不能改变 modifierExtension 本身的意义）。
 - **name**[string]: 在报告等中向人类显示账户时使用的名称
 - **owner**[object]: 表示负责管理该账户的服务区、医院、部门等
 - **_display**[object]: 用于展示的扩展
 - **_reference**[object]: 供参考的扩展
 - **_type**[object]: 类型的扩展
 - **display**[string]: 除资源参考文献外，还可识别资源的纯文本说明
 - **extension**[array]: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求
 - **id**[string]: 资源中元素的唯一 ID（用于内部引用）。可以是任何不含空格的字符串值
 - **identifier**[object]: 目标资源的标识符。当无法直接引用其他资源时，或者因为所代表的实体无法通过 FHIR 服务器获取，或者因为资源作者无法将已知标识符转换为实际位置，就需要使用此标识符。没有要求 Reference.identifier 必须指向实际作为 FHIR 实例公开的内容，但它必须指向预计将来作为 FHIR 实例公开的业务概念，而且该实例必须属于引用所允许的 FHIR 资源类型。
 - **reference**[string]: 指向找到其他资源的位置的引用。该引用可以是相对引用（相对于服务基础 URL），也可以是绝对 URL（解析到找到资源的位置）。引用可以是特定版本的，也可以不是。如果引用指向的不是 FHIR RESTful 服务器，则应假定为特定版本。内部片段引用（以 "#" 开头）指向包含的资源
 - **partOf**[object]: 父账户参考
 - **_display**[object]: 用于展示的扩展
 - **_reference**[object]: 供参考的扩展
 - **_type**[object]: 类型的扩展
 - **display**[string]: 除资源参考文献外，还可识别资源的纯文本说明
 - **extension**[array]: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求
 - **id**[string]: 资源中元素的唯一 ID（用于内部引用）。可以是任何不含空格的字符串值
 - **identifier**[object]: 目标资源的标识符。当无法直接引用其他资源时，或者因为所代表的实体无法通过 FHIR 服务器获取，或者因为资源作者无法将已知标识符转换为实际位置，就需要使用此标识符。没有要求 Reference.identifier 必须指向实际作为 FHIR 实例公开的内容，但它必须指向预计将来作为 FHIR 实例公开的业务概念，而且该实例必须属于引用所允许的 FHIR 资源类型。
 - **reference**[string]: 指向找到其他资源的位置的引用。该引用可以是相对引用（相对于服务基础 URL），也可以是绝对 URL（解析到找到资源的位置）。引用可以是特定版本的，也可以不是。如果引用指向的不是 FHIR RESTful 服务器，则应假定为特定版本。内部片段引用（以 "#" 开头）指向包含的资源
 - **resourceType**[string]: 这是账户资源

- `seeAlso[*]`: 指向有关该项目的其他资源的 uri 列表
- `servicePeriod[object]`: 与该账户相关的服务日期范围
 - `_end[object]`: 末端扩展
 - `_start[object]`: 启动扩展
- `end[string]`: 期末。如果缺少结束日期，则表示创建实例时不知道或计划结束日期。开始日期可能是过去，结束日期可能是未来，这意味着预计/计划在那个时候结束该期间
- `extension[array]`: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求
 - `id[string]`: 资源中元素的唯一 ID（用于内部引用）。可以是任何不含空格的字符串值
 - `source[string]`: 以 URL 形式给出实体数据原始来源的字符串。建议使用源提供者的完全合格域名或源对象的 URL
 - `status[string]`: 表示账户目前是否被使用/可用
 - `subject[array]`: 指明产生支出的实体。虽然服务或货物的直接接受者可能是与账户主体有关的实体，但支出最终由账户主体承担
 - `text[object]`: 人类可读的叙述，包含资源摘要，可用于向人类展示资源内容。说明不需要对所有结构化数据进行编码，但需要包含足够的细节，使人在临幊上只需阅读说明即可。资源定义可定义说明中应包含哪些内容，以确保临幊安全
 - `_status[object]`: 身份延期
 - `div[*]`: 实际的叙述内容是 XHTML 的精简版
 - `extension[array]`: 可用于表示不属于元素基本定义的附加信息。为了使扩展的使用安全、易于管理，对扩展的定义和使用有一套严格的管理规定。虽然任何实施者都可以定义扩展，但作为扩展定义的一部分，必须满足一系列要求
- `id[string]`: 资源中元素的唯一 ID（用于内部引用）。可以是任何不含空格的字符串值

所需属性

- `id`
- `type`

数据模型映射自 HL7 标准的原始 4.3 版。由于与 NGSI 中的强制类型相冲突，原属性 `-type-` 已更名为 `-hl7type-`。此外，还进行了其他小的调整。参见 <https://github.com/smart-data-models/dataModel.HL7/blob/master/README.md> 主题根目录

属性的数据模型描述

按字母顺序排列（[点击查看详情](#)）

[full yaml details](#)


```
        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\$]+$'
            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
                        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
          pattern: '^[ \r\n\t\$]+$'
          type: string
        extension:
          description: 'May be used to represent additional information
          that is not part of the basic definition of the element. To make the use of
          extensions safe and manageable, there is a strict set of governance applied to
          the definition and use of extensions. Though any implementer can define an
          extension, there is a set of requirements that SHALL be met as part of the
          definition of the extension'
          items:
            type: array
        id:
          description: 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
      _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][0-9]|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][0-9]|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|(\+|-)(([0-9]|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[2-9])[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\$]+'
        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-usuable 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 XML
DigSig, application/jose for JWS, and image/* for a graphical image of a
signature, etc'
            type: string
            targetFormat:
              description:
                type: string
                description: A mime type that indicates the technical format of the target resources signed by
the signature
                type: string
                type:
                  description:
                    type: string
                    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-usuable 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\$]+'
                            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 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[2-9]|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[2-9]|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:
            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\$]+'  
type: string  
type: object  
x-ngsi:  
    type: Property  
_implicitRules:  
    additionalProperties: false  
    description: Extensions for implicitRules  
    properties:  
        extension:  
            description: 'May be used to represent additional information that is  
not part of the basic definition of the element. To make the use of extensions  
safe and manageable, there is a strict set of governance applied to the  
definition and use of extensions. Though any implementer can define an extension,  
there is a set of requirements that SHALL be met as part of the definition of the  
extension'  
            items:  
                additionalProperties: false  
                properties:  
                    _url:  
                        additionalProperties: false  
                        description: Extensions for url  
                        properties:  
                            extension:  
                                description: 'May be used to represent additional information that is  
not part of the basic definition of the element. To make the use of extensions  
safe and manageable, there is a strict set of governance applied to the  
definition and use of extensions. Though any implementer can define an  
extension, there is a set of requirements that SHALL be met as part of the  
definition of the extension'  
                                items:  
                                    type: array  
                                id:  
                                    description: Unique id for the element within a resource (for  
internal references). This may be any string value that does not contain spaces  
                                    type: string  
                                type: object  
                                _valueBase64Binary:  
                                    additionalProperties: false  
                                    description: Extensions for valueBase64Binary  
                                    properties:  
                                        extension:  
                                            description: 'May be used to represent additional information that is  
not part of the basic definition of the element. To make the use of extensions  
safe and manageable, there is a strict set of governance applied to the  
definition and use of extensions. Though any implementer can define an  
extension, there is a set of requirements that SHALL be met as part of the  
definition of the extension'  
                                            items:  
                                                type: array  
                                            id:  
                                                description: Unique id 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
                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
                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
            url:
                description: Source of the definition for the extension code - a
logical name or a URL
                pattern: '^[\r\n\t\$]+$'
                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

```

```

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

```

```

    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

```

```

        type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
        id:
          description: 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[2-9]|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|([+-])([0-9]|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[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\$]+$'
        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.
            type: string
            description: the type is the Canonical URL of Resource Definition that is 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:
                    type: string
            A mime type that indicates the technical format of the target resources signed by
            the signature
                type: string
            type:
                description:
                    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\$]+'
                        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[2-9]|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[2-9]|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\$]+'
                            type: string
                        type: object
                    x-ngsi:
                        type: Property
                    _language:
                    additionalProperties: false

```

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

```

        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$*
        type: boolean
    valueCanonical:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\$*$
        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:
        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 resolvable 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:
                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\$]+'
                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

```



```
        description: 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:
                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
        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-usuable 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-usuable 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\$]+$'
        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[2-9]|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[2-9]|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\$]+'
                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:
                                    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\$]+$'
                    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
    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
        pattern: '^[ \r\n\t\$]+$'
        type: string
      extension:
        description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
        items:
          type: array
        id:
          description: 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: ^\$*
        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:
        _code:
        description: Extensions for code
        type: string
        display:
        _display:
        description: Extensions for display
        type: string
        system:
        _system:
        description: Extensions for system
        type: string
        userSelected:
        _userSelected:
        description: Extensions for userSelected
        type: string
        version:
        _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]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]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:
                        additionalProperties: 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[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\$]+$
            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:
            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-usuable 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\$]+'
    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 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[2-9]]|[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[2-9]]|[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
  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: '^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}$'
                            type: string
                            type: object
                          type: array
                        id:
                          description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
                          pattern: '^[ \r\n\t\$]+$'
                          type: string
                        type: object
                      x-nsgsi:
                        type: Property
                    _status:
                      additionalProperties: false
                      description: Extensions for status
                      properties:
                        extension:
                          description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                          additionalProperties: false
                        properties:
                          _url:
                            additionalProperties: false
                            description: Extensions for url
                            properties:
                              extension:
                                description: 'May be used to represent additional information

```

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

```

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

```

```

the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
        type: array
    id:
        description: Unique id 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\$]+$'
            type: string
        url:
            description: Source of the definition for the extension code - a
logical name or a URL
                pattern: ^S*$
            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
            pattern: '^[ \r\n\t\$]+$'
            type: string
        extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
            type: array
        id:
            description: 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$*
    type: boolean
valueCanonical:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\$*$*
    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[\^\$]+)*$*
    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:
          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[2-9]|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:
        additionalProperties: 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\$]+'
            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.
        type: string
        description: 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:
        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
  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\$]+'
        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|(\+|-)(([0-9]|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\$]+'
                              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\$]+$'
              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\$]+$'
            type: string
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
              type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\$]+$'
            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: ^\$*$
            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|1-9][1-3]):[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\$]+'
            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\$]+$'
    type: string
    valueTime:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)
    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?$
    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: ^\$*
    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:
        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\$]+$'
        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$'
        type: boolean
    valueCanonical:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: '^\$*$'
        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]+)*$'
        type: string
    valueCodeableConcept:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueCodeableReference:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueCoding:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueContactDetail:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueContactPoint:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueContributor:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueCount:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueDataRequirement:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueDate:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: '^(0[1-9]|1[0-2])(-(0[1-9]|1[2-9]|0[0-9]|3[0-1]))?$', '$'
        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[1-9]|1[0-2])(-(0[1-9]|1[2-9]|0[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\$]+$'
  type: string
valueMoney:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueOid:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$|
  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]*$|
  type: number
valueQuantity:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueRange:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueRatio:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueRatioRange:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueReference:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueRelatedArtifact:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueSampledData:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueSignature:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
valueString:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: '^[ \r\n\t\$]+$'
  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: ^\$*
            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:
            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\$]+'
        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\$]+$'
        type: string
      type: object
  _valueBase64Binary:
    additionalProperties: false
    description: Extensions for valueBase64Binary
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\$]+$'
        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\$]+$'
        type: string
      type: object
  _valueCanonical:
    additionalProperties: false
    description: Extensions for valueCanonical
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\$]+$'
        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\$]+$'
    type: string
    type: object
  _valueDate:
    additionalProperties: false
    description: Extensions for valueDate
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\$]+$'
          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\$]+$'
          type: string
          type: object
  _valueDecimal:
    additionalProperties: false
    description: Extensions for valueDecimal
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\$]+$'
          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'

```

```

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

```

```

internal references). This may be any string value that does not contain spaces
    pattern: '^[\r\n\t\$]+'
    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\$]+'
                    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\$]+'
                    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\$]+'
                    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\$]+'
                    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\$]+$'
        type: string
      type: object
  _valueUrl:
    additionalProperties: false
    description: Extensions for valueUrl
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
      items:
        type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\$]+$'
        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\$]+$'
        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[2-9])[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[2-9])[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][1-9]|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\$]+'
            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
        valueObjectId:
            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\$]+'
            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: ^\$*
                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:
                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\$]+'
            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:
                    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
definition of the extension'
                    items:
                      type: string
                      type: array
                    id:
                      description: Unique id 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\$]+$'
                      type: string
                    country:
                      description:
                        Country - a nation as commonly understood or generally accepted
                        pattern: '^[ \r\n\t\$]+$'
                        type: string
                    district:
                      description: The name of the administrative area (county)
                      pattern: '^[ \r\n\t\$]+$'
                      type: string
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                      items:
                        type: string
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\$]+$'
                      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\$]+$'
              type: string
            state:
              description: Sub-unit of a country with limited sovereignty in a
federally organized country. A code may be used if codes are in common use (e.g. US
2 letter state codes)
              pattern: '^[ \r\n\t\$]+$'
              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\$]+$'
              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'

```

```

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

```



```
        id:
          description: Unique id 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[2-9]|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\$]+'
        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\$]+'
        type: string
url:
    description: A location where the data can be accessed
        pattern: ^\$*
        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$*
        type: boolean
valueCanonical:
    description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\$*
        type: string
valueCode:
    description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\s*+(\s[\s]+)*$*
        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:
    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\$]+$'
            type: string
          text:
            description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
            pattern: '^[ \r\n\t\$]+$'
            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\$]+$'
      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 a
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\$]+'
        type: string
        extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
                type: string
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[\ \r\n\t\$]+'
                type: string
            system:
                description:
                    The identification of the code system that defines the meaning of the symbol in the
code
                    pattern: ^\$*
                    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\$]+'
                        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\$]+'
                                    type: string
                            name:
                                description: The name of an individual to contact
                                pattern: '^[\ \r\n\t\$]+'
                                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\$]+$'
            type: string
          period:
            additionalProperties: false
            description: Time period when the contact point was/is in use
            properties:
              _end:
                description: Extensions for end
                type: string
              _start:
                description: Extensions for start
                type: string
              end:
                description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                type: string
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                  type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              start:
                description: The start of the period. The boundary is
inclusive
                type: string
              type: object
            rank:
              description: Specifies a preferred order in which to use a set of
contacts. ContactPoints with lower rank values are more preferred than those with
higher rank values
              pattern: ^[1-9][0-9]*$'
              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\$]+$'
              type: string
            type: object
            valueContributor:
              additionalProperties: false

```

```

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

```

```

extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
        type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
        type: object
    codeFilter:
        description: 'Code filters specify additional constraints on the
data, specifying the value set of interest for a particular element of the data.
Each code filter defines an additional constraint on the data, i.e. code filters
are AND''ed, not OR''ed'
        items:
            type: string
            type: array
        dateFilter:
            description: 'Date filters specify additional constraints on the
data in terms of the applicable date range for specific elements. Each date filter
specifies an additional constraint on the data, i.e. date filters are AND''ed, not
OR''ed'
            items:
                type: string
                type: array
        extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
                type: string
                type: array
        id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\$]+'
            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 resolvable 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:
                type: object
            description: 'The type of the required data, specified as the type
name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
                pattern: ^[\^s]+(\s[\^s]+)*$
                type: string

```

```

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

```

```

properties:
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
        type: object
      _patientInstruction:
        additionalProperties: false
        description: Extensions for patientInstruction
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
                type: object
              _sequence:
                additionalProperties: false
                description: Extensions for sequence
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: string
                        type: array
                      id:
                        description: Unique id 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\$]+$'
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\$]+$'
        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\$]+$'
    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\$]+$'
      type: string
    system:
      description: The identification of the system that provides the
coded form of the unit
      pattern: '^S*'
      type: string
    unit:
      description: A human-readable form of the unit
      pattern: '^[ \r\n\t\$]+'
      type: string
    value:
      description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
      pattern: ^-?(0|[1-9][0-9]*)((.[0-9]+)?([eE][+-]?[0-9]+)?$|
      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\$]+'
                  type: string
                expression:
                  description:
                    An expression in the specified language that returns a value
                    pattern: '^[ \r\n\t\$]+'
                    type: string
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\$]+'
                      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: ^\$*
                      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\$]+$'
                      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\$]+'
          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\$]+'
            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\$]+'
                        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\$]+'
          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[2-9][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\$]+'
          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]+)*$*
                                        type: string
                                        extension:
                                            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                                                items:
                                                    type: string
                                                    type: array
                                                id:
                                                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                                        pattern: '^[ \r\n\t\$]+'
                                                        type: string
                                                    value:
                                                        description: Numerical value (with implicit precision)
                                                        pattern: ^-?(0|[1-9][0-9]*)(.[0-9]+)?([eE][+-]?[0-9]+)?$*
                                                        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'

```

extension, there is a set of requirements that SHALL be met as part of the definition of the extension'

```
    items:
      type: string
      type: array
    id:
      description: Unique id 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\$]+$'
            type: string
            extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                    type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    pattern: '^[ \r\n\t\$]+$'
                    type: string
                max:
                    description: The maximum number of times this element is permitted
to appear in the request or response
                    pattern: '^[ \r\n\t\$]+$'
                    type: string
                min:
                    description: The minimum number of times this parameter SHALL
appear in the request or response
                    pattern: ^?([0]|([1-9][0-9]*))$
                    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]+)*$*
                    type: string
                profile:
                    description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
                    pattern: ^\$*
                    type: string
                type:
                    description: The type of the parameter
                    pattern: ^[\s]+(\s[\s]+)*$*
                    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[2-9][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\$]+$'
        type: string
    start:
        description: The start of the period. The boundary is inclusive
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|1[2-9][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))))??)?$
        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\$]+'

```

```

        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\$]+$'
        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\$]+'
        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\$]+$'
        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\$]+'
              type: string
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
                type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\$]+'
              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\$]+$'
        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: '^\$'
        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\$]+$'
                                      type: string
                                    display:
                                      description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
                                      pattern: '^[ \r\n\t\$]+$'
                                      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\$]+$'
    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\$]+'
  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: ^\$*
  type: string
  type: object
valueSampledData:
  additionalProperties: false
  description: 'Value of extension _ must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
properties:
  _data:
    additionalProperties: false
    description: Extensions for data
    properties:
      extension:
        description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
          type: string
          type: object
        _dimensions:
          additionalProperties: false
          description: Extensions for dimensions
          properties:
            extension:
              description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
              items:
                type: string
                type: array
            id:
              description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
              type: string
              type: object
            _factor:
              additionalProperties: false
              description: Extensions for factor
              properties:
                extension:
                  description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
                  items:
                    type: string
                    type: array
            id:
              description: Unique id for the element within a resource (for

```

```

internal references). This may be any string value that does not contain spaces
    type: string
    type: object
    _lowerLimit:
        additionalProperties: false
        description: Extensions for lowerLimit
        properties:
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                    type: object
                _period:
                    additionalProperties: false
                    description: Extensions for period
                    properties:
                        extension:
                            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                            items:
                                type: string
                                type: array
                            id:
                                description: Unique id 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\$]+$'
                                            type: string
                                        dimensions:
                                            description: 'The number of sample points at each time point. If
this value is greater than one, then the dimensions will be interlaced - all the
sample points for a point in time will be recorded at once'
                                            pattern: ^[1-9][0-9]*$*
                                            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\$]+'  

          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:  

            _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\$]+$'
            type: string
        onBehalfOf:
            additionalProperties: false
            description: A reference to an application-usuable 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.
                    type: string
                    description: |
                        The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                    type: string
                    type: object
                sigFormat:
                    description: 'A mime type that indicates the technical format of
the signature. Important mime types are application/signature+xml for X ML DigSig,
application/jose for JWS, and image/* for a graphical image of a signature,
etc'
                    pattern: '^[^\s]+(\s[^^\s]+)*$'
                    type: string

```

```

    targetFormat:
      description:
        A mime type that indicates the technical format of the target resources signed by
        the signature
          pattern: ^[\s]+(\s[\s]+)*$  

          type: string  

        type:  

          description: An indication of the reason that the entity signed
        this document. This may be explicitly included as part of the signature information
        and can be used when determining accountability for various actions concerning the
        document
          items:  

            type: string  

            type: array  

          when:  

            description: When the digital signature was signed
            pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)-  

(0[1-9]|1[0-2])-([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  

          who:  

            additionalProperties: false  

            description: A reference to an application-usuable 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\$]+$'
        type: string
    valueTime:
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: '^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?$'
        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\$]+$'
                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 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\$]+'
                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\$]+'
                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|(\+|-)(\([0-9]|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: ^\$*
  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:
      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:
          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\$]+$'
          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
                  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\$]+$
                            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$"
        type: boolean
    valueCanonical:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\$*$"
        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])-([0-9]([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\$]+$'
        type: string
    valueMoney:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueOid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
        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\$]+'
            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]*)$)
            type: number
        valueUri:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^\$*
            type: string
        valueUrl:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^\$*
            type: string
        valueUsageContext:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueUuid:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$'
            type: string
        type: object
        type: array
    id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: ^[\r\n\t\$]+$
        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

```

```

        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)'
        pattern: '^([0-9]([0-9]([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

```

```

        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])-([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
    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]*))$)
        type: number
    valueMarkdown:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: '^[\r\n\t\$]+'
        type: string
    valueMoney:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueOid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
        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\$]+'
            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: ^\$*$
            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:
            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\$]+'
              type: string
            extension:
              description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
              items:
                type: string
                type: array
            id:
              description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\$]+'
              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
        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]|1-90)|[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
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: ^[ \r\n\t\$]+$
                        type: string
                    start:
                        description: The start of the period. The boundary is inclusive
                        pattern: ^([0-9)([0-9]([0-9][1-9]|1-90)|[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
                    required:
                        - party
                    type: object
                    type: array
                    x-nsgi:
                        type: Property
                hl7type:
                    additionalProperties: false
                    description: Categorizes the account for reporting and searching purposes
                    properties:
                        _text:
                            additionalProperties: false
                            description: Extensions for text
                            properties:
                                extension:
                                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                            items:
                                additionalProperties: false
                                properties:
                                    _url:
                                        description: Extensions for url
                                        type: string
                                    _valueBase64Binary:
                                        description: Extensions for valueBase64Binary
                                        type: string
                                    _valueBoolean:
                                        description: Extensions for valueBoolean
                                        type: string
                                    _valueCanonical:
                                        description: Extensions for valueCanonical
                                        type: string
                                    _valueCode:
                                        description: Extensions for valueCode
                                        type: string
                                    _valueDate:
                                        description: Extensions for valueDate
                                        type: string
                                    _valueDateTime:
                                        description: Extensions for valueDateTime
                                        type: string
                                    _valueDecimal:
                                        description: Extensions for valueDecimal
                                        type: string

```

```

    _valueId:
      description: Extensions for valueId
      type: string
    _valueInstant:
      description: Extensions for valueInstant
      type: string
    _valueInteger:
      description: Extensions for valueInteger
      type: string
    _valueMarkdown:
      description: Extensions for valueMarkdown
      type: string
    _valueOid:
      description: Extensions for valueOid
      type: string
    _valuePositiveInt:
      description: Extensions for valuePositiveInt
      type: string
    _valueString:
      description: Extensions for valueString
      type: string
    _valueTime:
      description: Extensions for valueTime
      type: string
    _valueUnsignedInt:
      description: Extensions for valueUnsignedInt
      type: string
    _valueUri:
      description: Extensions for valueUri
      type: string
    _valueUrl:
      description: Extensions for valueUrl
      type: string
    _valueUuid:
      description: Extensions for valueUuid
      type: string
    extension:
      description: 'May be used to represent additional information
      that is not part of the basic definition of the element. To make the use of
      extensions safe and manageable, there is a strict set of governance applied to
      the definition and use of extensions. Though any implementer can define an
      extension, there is a set of requirements that SHALL be met as part of the
      definition of the extension'
      items:
        type: string
        type: array
      id:
        description: 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]))(-([0-9]|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|(\+|-)(([0-9]|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)'

```

```

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

```

```

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

```

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

```

```

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)([1-9]|([1-9]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\$]+'
                    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-usuable 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-usuable 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\$]+'
        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 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[2-9]|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[2-9]|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
            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\$]+'
        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\$]+'
        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\$]+$'
      type: string
      type: object
    _use:
      additionalProperties: false
      description: Extensions for use
      properties:
        extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\$]+$'
            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\$]+$'
            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\$]+$'
              type: string
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
                type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\$]+$'
              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\$]+$'
          type: string
        type:
          description: |-
            The expected type of the target of the reference. If both
          Reference.type and Reference.reference are populated and Reference.reference is a
          FHIR URL, both SHALL be consistent.
            The type is the Canonical URL of Resource Definition that is the
          type this reference refers to. References are URLs that are relative to http://
          hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
          fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
          (and can only be used in references in logical models, not resources)
          pattern: ^S*$
          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: ^\$*
            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\$]+$'
    type: string
    valueMoney:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueOid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: '^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$'
    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]*$'
    type: number
    valueQuantity:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueRange:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueRatio:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueRatioRange:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueReference:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueRelatedArtifact:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueSampledData:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueSignature:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueString:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: '^[\r\n\t\$]+$'
    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: '^\$*$'
    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: '^$'
          type: string
        valueUsageContext:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          type: string
        valueUuid:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: '^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$'
          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\$]+$'
          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[2-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)(([0-9]|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
                    type: string
                    type: object

```

```

internal references). This may be any string value that does not contain spaces
    pattern: '^[\r\n\t\$]+$'
    type: string
  start:
    description: The start of the period. The boundary is inclusive
    pattern: ^([0-9]([0-9]([0-9][1-9])[1-9]0)|[1-9]00)|[1-9]000)(-[0[1-9]|1[0-2])(-[0[1-9]|1[2-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(.[0-9]+)?(Z|([+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?$
    type: string
  type: object
  system:
    description: 'Establishes the namespace for the value - that is, a URL
that describes a set values that are unique'
    pattern: '^S*$'
    type: string
  type:
    additionalProperties: false
    description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
  properties:
    _text:
      additionalProperties: false
      description: Extensions for text
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
          type: object
        coding:
          description: A reference to a code defined by a terminology
  system
    items:
      type: string
      type: array
    extension:
      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
      items:
        type: string
        type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      pattern: '^[\r\n\t\$]+$'
      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\$]+$'
      type: string
      type: object
    use:
      description: The purpose of this identifier
    enum:
      - usual
      - official
      - temp
      - secondary
      - old
    value:
      description: The portion of the identifier typically relevant to the
user and which is unique within the context of the system
      pattern: '^[\r\n\t\$]+$'
      type: string
      type: object
    type: array
  x-nsgi:
    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: ^\$*
  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

```

```

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]*)$'
        type: number
        valueMarkdown:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
          pattern: '^[\r\n\t\$]+'
          type: string
          valueMoney:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
            valueOid:
              description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
              pattern: '^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$'
              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\$+$'
                                      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: ^\$  

        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:  

            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\$]+$  

        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

```

```

        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])|[1-9]0-)?$  

          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])|[1-9]0-)?(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\$]+'
                                    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\$]+$'
        type: string
    valueTime:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
        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: ^\$*
        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:
        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\$]+$'
        type: string

```

```

    type: object
    versionId:
      additionalProperties: false
      description: Extensions for versionId
      properties:
        extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            additionalProperties: false
            properties:
              url:
                description: Extensions for url
                type: string
              valueBase64Binary:
                description: Extensions for valueBase64Binary
                type: string
              valueBoolean:
                description: Extensions for valueBoolean
                type: string
              valueCanonical:
                description: Extensions for valueCanonical
                type: string
              valueCode:
                description: Extensions for valueCode
                type: string
              valueDate:
                description: Extensions for valueDate
                type: string
              valueDateTime:
                description: Extensions for valueDateTime
                type: string
              valueDecimal:
                description: Extensions for valueDecimal
                type: string
              valueId:
                description: Extensions for valueId
                type: string
              valueInstant:
                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$
```

```

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

```

```

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

```
        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'

```

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

```



```

        description: 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|(\+|-)(\([0-9]|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:
    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: Body site to administer to
  type: string

```

```

        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[1-9]0)|1[1-9]00)|1[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\$]+'
        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.
    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:
        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:

```

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)

```

        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 XML
        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\$]+$'
          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 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}$'
        type: string
        type: object
        type: array
        id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\$]+$'
        type: string
        lastUpdated:
        description: When the resource last changed - e.g. when the version
changed
        pattern: ^([0-9)(([0-9)(([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)-(0[1-9]|1[0-2])-([01-9]|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
        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: ^\$*
        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]+)*$
```

The identification of the code system that defines the meaning of the symbol in the code

```

            type: string
            type: array
          id:
            description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
            pattern: ^[^\s]+$
```

userSelected:

```

            type: string
            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\$]+$'
        type: string
      type: object
      type: array
    source:
      description: 'A uri that identifies the source system of the resource.
This provides a minimal amount of [[[Provenance]]] information that can be used to
track or differentiate the source of information in the resource. The source may
identify another FHIR server, document, message, database, etc'
      pattern: '^S*$'
      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
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]+)*$*
                type: string
            display:
                description: 'A representation of the meaning of the code in the
system, following the rules of the system'
                pattern: '^[ \r\n\t\$]+$'
                type: string
            extension:
                description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                items:
                    type: string
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\$]+$'
                type: string
            system:
                description:
The identification of the code system that defines the meaning of the symbol in the
code
                pattern: ^S*$
                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\$]+$'
                type: string
            type: object
            type: array
        versionId:
            description: 'The version specific identifier, as it appears in the
version portion of the URL. This value changes when the resource is created,
updated, or deleted'
            pattern: ^[A-Za-z0-9\-\_]{1,64}$
            type: string
        type: object
        x-ngsi:
            type: Property
    modifierExtension:
        description: |-

```

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

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

```

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

```

```

properties:
extension:
  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
  items:
    type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\$]+$'
    type: string
    type: object
  _valuePositiveInt:
    additionalProperties: false
    description: Extensions for valuePositiveInt
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\$]+$'
          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\$]+$'
              type: string
              type: object
            _valueTime:
              additionalProperties: false
              description: Extensions for valueTime
              properties:
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                  items:
                    type: string
                    type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  pattern: '^[ \r\n\t\$]+$'
                  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\$]+$'
    type: string
    type: object
  _valueUri:
    additionalProperties: false
    description: Extensions for valueUri
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\$]+$'
          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\$]+$'
          type: string
          type: object
  _valueUuid:
    additionalProperties: false
    description: Extensions for valueUuid
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\$]+$'
          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$*
            type: boolean
        valueCanonical:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^\$*
            type: string
        valueCode:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^[\^\s]+(\s[\^\s]+)*$*
            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])-([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|(\+|-)(([0-9]|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\$]+'
            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\$]+$'
        type: string
    valueTime:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?$
        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: ^\$*
        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:
        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\$]+$'
        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:
                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
definition of the extension'
                    items:
                        type: string
                        type: array
                    id:
                        description: Unique id 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\$]+'
                        type: string
                    country:
                        description:
Country - a nation as commonly understood or generally accepted
                        pattern: '^[ \r\n\t\$]+'
                        type: string
                    district:
                        description: The name of the administrative area (county)
                        pattern: '^[ \r\n\t\$]+'
                        type: string
                    extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                        items:
                            type: string
                            type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\$]+'
                        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\$]+'
    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\$]+'
    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\$]+'
      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: '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\$]+$'
        type: string
      system:
        description: The identification of the system that provides the coded form of the unit
        pattern: '^S*'
        type: string
      unit:
        description: A human-readable form of the unit
        pattern: '^[ \r\n\t\$]+$'
        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 a
business concept that would be expected to be 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\$]+'
                  type: string
                extension:
                  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions

```

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

```

    items:
      type: string
      type: array
    id:
      description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
      pattern: '^[ \r\n\t\$]+$'
      type: string
    text:
      description: The text of the annotation in markdown format
      pattern: '^[ \r\n\t\$]+$'
      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[2-9]|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]+)*$*
          type: string
        creation:
          description: The date that the attachment was first created
          pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)(-
[0[1-9]|1[0-2]](-[0[1-9]|1[2-9][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(.[0-9]+)?(Z|(|+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
          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\$]+$'
          type: string
        language:
          description: The human language of the content. The value can be
any valid value according to BCP 47
          pattern: ^[^\s]+(\s[^^\s]+)*$*
          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])*$*
          type: number
        title:
          description: A label or set of text to display in place of the
data
          pattern: '^[\r\n\t\$]+$'
          type: string
        url:
          description: A location where the data can be accessed
          pattern: ^\$+$
          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: ^\$+$
          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
      coding:
        type: object
        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\$]+'
    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\$]+'
    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\$]+'
                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'

```

```

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

```

```

extension:
  items:
    type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\$]+$'
    type: string
  name:
    description: The name of an individual to contact
    pattern: '^[ \r\n\t\$]+$'
    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\$]+$'
              type: string
            period:
              additionalProperties: false
              description: Time period when the contact point was/is in use
              properties:
                _end:
                  description: Extensions for end
                  type: string
                _start:
                  description: Extensions for start
                  type: string
                end:
                  description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
                  type: string
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                    type: array
                id:
                  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                  type: string
                start:
                  description: The start of the period. The boundary is
inclusive
                  type: string
                  type: object
              rank:
                description: Specifies a preferred order in which to use a set of
contacts. ContactPoints with lower rank values are more preferred than those with
higher rank values
                pattern: ^[1-9][0-9]*$*
                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\$]+$'
      type: string
    type: object
  valueContributor:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      name:
        additionalProperties: false
        description: Extensions for name
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
          type: object
      _type:
        additionalProperties: false
        description: Extensions for type
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
              type: object
            contact:
              description: Contact details to assist a user in finding and
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\$]+$'
          type: string
      name:
        description:
The name of the individual or organization responsible for the contribution
        pattern: '^[ \r\n\t\$]+$'
        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[^\s]+)*$*
          type: string
        comparator:
          description: 'How the value should be understood and represented - whether the actual value is greater or less than the stated value due to measurement issues; e.g. if the comparator is <, then the real value is < stated value'
            enum:
              - <
              - <=
              - '>='
              - >
        extension:
          description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
            items:
              type: string
              type: array
            id:
              description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
                pattern: '^[\r\n\t\$]+$'
                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\$]+$'
                type: string
            value:
              description: The value of the measured amount. The value includes an implicit precision in the presentation of the value
                pattern: ^.?((0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$)
                type: number
              type: object
            valueDataRequirement:
              additionalProperties: false
              description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
            properties:
              _limit:
                additionalProperties: false
                description: Extensions for limit
              properties:
                extension:
                  description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
                    items:
                      type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                    _mustSupport:

```

```

        description: Extensions for mustSupport
        items:
          type: string
          type: array
        type:
          additionalProperties: false
          description: Extensions for type
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
                type: object
              codeFilter:
                description: 'Code filters specify additional constraints on the
data, specifying the value set of interest for a particular element of the data.
Each code filter defines an additional constraint on the data, i.e. code filters
are AND''ed, not OR''ed'
                items:
                  type: string
                  type: array
                dateFilter:
                  description: 'Date filters specify additional constraints on the
data in terms of the applicable date range for specific elements. Each date filter
specifies an additional constraint on the data, i.e. date filters are AND''ed, not
OR''ed'
                  items:
                    type: string
                    type: array
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\$]+$'
                      type: string
                    limit:
                      description: Specifies a maximum number of results that are
required (uses the _count search parameter)
                      pattern: ^[1-9][0-9]*$'
                      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 resolvable 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
        type: object
        valueDate:  

            description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-(0[1-9]|1[0-2])(-(0[1-9]|1[2][0-9]|3[0-1])))?$  

            type: string
            valueDateTime:  

                description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-(0[1-9]|1[0-2])(-(0[1-9]|1[2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))))?)?)?$  

                type: string
                valueDecimal:  

                    description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^(?:0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$  

                    type: number
                    valueDistance:  

                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:  

                            _code:  

                                additionalProperties: false
                                description: Extensions for code
                                properties:  

                                    extension:  

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

                                            type: string
                                            type: array
                                        id:  

                                            description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
                                            type: string
                                            type: object
                                            _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\$'*
                      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\$'*
                      type: string
                    value:

```

```

        description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
      pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$"
      type: number
    type: object
  valueDosage:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _asNeededBoolean:
      additionalProperties: false
      description: Extensions for asNeededBoolean
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
          type: object
        _patientInstruction:
          additionalProperties: false
          description: Extensions for patientInstruction
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
                type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
              type: object
            sequence:
              additionalProperties: false
              description: Extensions for sequence
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: string
                    type: array
                id:
                  description: Unique id 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\$]+$'
          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\$]+$'
        type: string
    route:
        additionalProperties: false
        description: How drug should enter body
    properties:
        _text:
            description: Extensions for text
            type: string
        coding:
            description: A reference to a code defined by a terminology
system
    items:
        type: string
        type: array
    extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
            type: string
            type: array
        id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
        text:
            description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
            type: string
        type: object
    sequence:
        description: Indicates the order in which the dosage instructions
should be applied or interpreted
        pattern: ^-?([0]|([1-9][0-9]*))$
        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\$]+$'
        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\$]+$'
            type: string
        system:
            description: The identification of the system that provides the
coded form of the unit
            pattern: '^\$*'
            type: string
        unit:
            description: A human-readable form of the unit
            pattern: '^[ \r\n\t\$]+$'
            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\$]+$'
                        type: string
                    expression:
                        description:
                            An expression in the specified language that returns a value
                            pattern: '^[ \r\n\t\$]+$'
                            type: string
                        extension:
                            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                            items:
                                type: string
                                type: array
                            id:
                                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                pattern: '^[ \r\n\t\$]+$'
                                type: string
                            language:
                                description: The media type of the language for the expression
                                enum:
                                    - text/cql
                                    - text/fhirpath
                                    - application/x-fhir-query
                                    - text/cql-identifier
                                    - text/cql-expression
                            name:
                                description: A short name assigned to the expression to allow for
multiple reuse of the expression in the context where it is defined
                                pattern: ^[A-Za-z0-9\-\_]{1,64}$
                                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\$]+$'
            type: string
    given:
        description: Given name
        items:
            type: string
            type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\$]+$'
            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\$]+$'
                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\$]+$'
              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\$]+'
        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[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\$]+'
        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]+)*$"
        type: string
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\$]+$"
          type: string
        value:
          description: Numerical value (with implicit precision)
          pattern: ^-?(0|[1-9][0-9]*)(\.[0-9+]?)?([eE][+-]?[0-9+]?)?$
          type: number
        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: ^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\$]+'
      type: string
    extension:
      description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
      items:
        type: string
        type: array
      id:
        description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\$]+'
        type: string
      max:
        description: The maximum number of times this element is permitted to appear in the request or response
        pattern: '^[ \r\n\t\$]+'
        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\$]+'
                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\$]+$'
          type: string
        system:
          description: The identification of the system that provides the
coded form of the unit
          pattern: '^S*'
          type: string
        unit:
          description: A human-readable form of the unit
          pattern: '^[ \r\n\t\$]+'
          type: string
        value:
          description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
          pattern: ^-?(0|[1-9][0-9]*)((.[0-9]+)?([eE][+-]?[0-9]+)?$
          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\$]+$'
        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\$]+$'
  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\$]+$'
        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\$]+$'
          type: string
        extension:
          description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
          items:
            type: string
            type: array
        id:
          description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\$]+$'
          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\$]+$'
                type: string
            type:
                description: |-
                    The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
                    The type is the Canonical URL of Resource Definition that is the
type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
                pattern: '^S*$'
                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\$]+'
    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\$]+'
        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\$]+$'
      type: string
    label:
      description: 'A short label that can be used to reference the citation from elsewhere in the containing artifact, such as a footnote index'
      pattern: '^[ \r\n\t\$]+$'
      type: string
    resource:
      description: 'The related resource, such as a library, value set, profile, or other knowledge resource'
      pattern: '^\$*'
      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: '^\$*'
      type: string
    type: object
  valueSampledData:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _data:
      additionalProperties: false
      description: Extensions for data
    properties:
      extension:
        description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
          type: string
        type: object
      _dimensions:
        additionalProperties: false
        description: Extensions for dimensions
      properties:
        extension:
          description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
          items:
            type: string
            type: array
          id:
            description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
            type: string
          type: object
        _factor:
          additionalProperties: false
          description: Extensions for factor

```

```

properties:
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
      type: object
    lowerLimit:
      additionalProperties: false
      description: Extensions for lowerLimit
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
            type: object
          period:
            additionalProperties: false
            description: Extensions for period
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                  type: array
                id:
                  description: Unique id 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\$]+$'
                      type: string
                    dimensions:
                      description: 'The number of sample points at each time point. If
this value is greater than one, then the dimensions will be interleaved - all the
sample points for a point in time will be recorded at once'
                      pattern: ^[1-9][0-9]*$
                      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]+)?$)
    type: number
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\$]+'
    type: string
  lowerLimit:
    description: The lower limit of detection of the measured points.
This is needed if any of the data points have the value L (lower than detection
limit)
    pattern: ^-?(0|[1-9][0-9]*)((\.[0-9]+)?([eE][+-]?[0-9]+)?$)
    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'

```

```

extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
        type: string
        type: array
    id:
        description: Unique id 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\$]+$'
                type: string
            onBehalfOf:
                additionalProperties: false
                description: A reference to an application-usuable 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[\s]+)*$
```

A mime type that indicates the technical format of the target resources signed by the signature

```
        type: string
        targetFormat:
          description:
```

```
        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][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))$
```

who:

```
        additionalProperties: false
        description: A reference to an application-usuable 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\$]+$'
          type: string
        valueTime:
          description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?$
          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\$]+$'
        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 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\$]+$'
                    type: string
                  name:
                    description: 'A formal name for the event. This may be an absolute
URI that identifies the event formally (e.g. from a trigger registry), or a simple
relative URI that identifies the event in a local context'
                    pattern: '^[ \r\n\t\$]+$'
                    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[2-9]|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[2-9]|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: ^\$*
        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:
          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\$]+'
                            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.
      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-nsgsi:
          type: Property
      name:
        description: 'Name used for the account when displaying it to humans in
reports, etc'
        pattern: '^[ \r\n\t\$]+'
        type: string
        x-nsgsi:
          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[2-9]|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
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[2-9]|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\$]+'
                                                        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\$]+$'
                                                                                    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)'

```

```

        list)'
            pattern: ^[0]|([1-9][0-9]*)$'
            type: number
            valueUri:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^\$*
            type: string
            valueUrl:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^\$*
            type: string
            valueUsageContext:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
            valueUuid:
                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
            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\$]+'
            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$*
          type: boolean
        valueCanonical:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
          pattern: ^\$*
          type: string
        valueCode:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
          pattern: ^[\s]+(\s[^s]+\s)*$*
          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[2-9]|3[0-1])))?$?
        type: string
        valueDateTime:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)(-[0[1-9]|1[0-2]))(-([0[1-9]|1[2-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?(Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00))))?)?$
        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\$]+'
                        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
                            valueId:
                                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\$]+$'
        type: string
    valueTime:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[
[0-9]+)?$
        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]*)$|
        type: number
    valueUri:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^\$*
        type: string
    valueUrl:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^\$*
        type: string
    valueUsageContext:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueUuid:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f
{4}-[0-9a-f]{12}$
        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\$]+$'
        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

```

```

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$*
    type: boolean
    valueCanonical:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^\$*
    type: string
    valueCode:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^[\^s]+(\s[\^s]+)*$*
    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[2-9]|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[2-9]|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\$]+'
                                                                                                    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\$]+$'
                                                                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)'

```



```

        type: array
      id:
        description: Unique id 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'

```

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

```

        items:
          type: array
        id:
          description: Unique id 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:
```



```

    _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
                  type: string
                type: object
            description:
              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
    pattern: '^[ \r\n\t\$]+$'
    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an

```

```

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

```

```

        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:
            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])-([0-9]|[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\$]+'
        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 XML
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\$]+$'
    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[2-9]|3[0-1])))?$
          type: string
        timingDateTime:
          description: The timing of the event (if this is a periodic

```



```
        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}$'
      type: string
    type: object
    type: array
  id:
    description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\$]+$'
    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 a
            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.
            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[2-9]|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|(\+|-)([0-9][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)'

```



```

        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\$]+$'
                                type: string
                                valueType:
                                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                    pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
                                    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]*]$*
                                                type: number
                                                valueUri:
                                                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                    pattern: ^\$*
                                                    type: string
                                                    valueUrl:
                                                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                        pattern: ^\$*
                                                        type: string
                                                        valueUsageContext:
                                                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                            type: string
                                                            valueUuid:
                                                                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                                pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
                                                                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\$]+$'
  type: string
  type: object
reference:
  description: "A reference to a location at which the other resource is found. The reference may be a relative reference, in which case it is relative to the service base URL, or an absolute URL that resolves to the location where the resource is found. The reference may be version specific or not. If the reference is not to a FHIR RESTful server, then it should be assumed to be version specific. Internal fragment references (start with '#') refer to contained resources"
  pattern: '^[\r\n\t\$]+$'
  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-nsgsi:
      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

```



```

        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)'
            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: '^[ \r\n\t\$]+$'
            type: string
        valueTiming:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
            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]*)$)
            type: number
        valueUri:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^\$*
            type: string
        valueUrl:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^\$*
            type: string
        valueUsageContext:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueUuid:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
            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\$]+$'
            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

```

```

        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[2-9]|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[2-9]|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\$]+'
                                                                                                    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\$]+$'
                                                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: ^\$*$*
                                                                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]))?)?$"
        type: string
    valueDateTime:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2]))(-(0[1-9]|1[2][0-9]|3[0-1])(T|[01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)([0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$"
        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)'

```

```
list'
    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-([0-9][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](\+|-)([0-9]-)|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\$]+'
        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)'
        type: string
        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
```



```

        type: array
      id:
        description: Unique id 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'

```

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

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

```

The identification of the code system that defines the meaning of the symbol in the code

```

        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:
        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][1-9]|[1-9]0)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|1[2])[0-9]|3[0-1]))?|$"
                    type: string
                  valueDateTime:
                    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                    pattern: ^((0-9)([0-9][0-9][1-9]0|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|1[2])[0-9]|3[0-1])(T([01][0-9]2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)(\.[0-9]|1[0-3]):[0-5][0-9]|14:00)))?|$"
                    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:
                    additionalProperties: 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])-([01-9]|1[2-9])[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]*))$)
        type: number
    valueMarkdown:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: '^[\r\n\t\$]+$
        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-usuable 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 XML
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-usuable 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\$]+$'
          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]([1-9]|([1-9]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|(\+|-)(([0-9]|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\$]+$'
        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:
                    type: string
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                type: object
                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)'

```

```

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\$]+'
            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\$]+$'
                                         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)'

```

```

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\$]+'
        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\$]+'
            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\$]+'
          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: '^\$*'
          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)'

```

```

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\$]+'
            type: string
            valueMoney:
                description: 'Value of extension - must be one of 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: ^\$*
        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:
        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\$]+'
        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
    _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[2-9]|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|(\+|-)(([0-9-]|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)'  


```

```

        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\$]+'
                        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\$]+$'
        type: string
    valueTime:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$
        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]*)$)
        type: number
    valueUri:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^\$*
        type: string
    valueUrl:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^\$*
        type: string
    valueUsageContext:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
    valueUuid:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
        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\$]+$
        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:
    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\$]+$'
                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
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
      pattern: '^[ \r\n\t\$]+$'
      type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: array
    id:
      description: 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$*
        type: boolean
      valueCanonical:
        description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\$*
        type: string
      valueCode:
        description: 'Value of extension - must be one of a constrained
        set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^[\s]+(\s[\^s]+)*$*
        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
        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[2-9]|3[0-1]))?)?|$)
        type: string
    valueDateTime:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)(-[0[1-9]|1[0-2]](-([0[1-9]|1[2-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?Z|(\+|-)(([0-9][1[0-3]):[0-5][0-9]|14:00))))?)?|$)
        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)-
([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|([+|-])([0-9]|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\$]+'
    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-usuable 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\$]+'
                        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 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[2-9]|3[0-1])))?$"
        type: string
        timingDateTime:
        description: The timing of the event (if this is a periodic
trigger)
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2]))(-(0[1-9]|1[2-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))))?)?$"
        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]{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\$]+'$  

            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]|  

[1-9]0)(-[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  

            type: object  

        x-nsgsi:  

            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-nsgsi:  

            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\$]+'  

        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\$]+'  

        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\$]+'  

        type: string  

      type: object  

    display:  

      description: Plain text narrative that identifies the resource in
addition to the resource reference
      pattern: '^[ \r\n\t\$]+'  

      type: string  

    extension:  

      description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any 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$*
            type: boolean
        valueCanonical:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^\$*$*
            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]+)*$*
            type: string
        valueCodeableConcept:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueCodeableReference:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueCoding:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueContactDetail:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueContactPoint:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueContributor:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueCount:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueDataRequirement:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueDate:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)(-[0[1-9]|1[0-2])(-(0[1-9]|1[2-9]|3[0-1]))?)?$
            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 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])-([0-9]([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\$]+$'
            type: string
        valueMoney:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueOid:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$"
            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\$]+$'
        type: string
    valueTime:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^([01][0-9]|2[0-3]):([0-5][0-9]:([0-5][0-9]|60)(\.
[0-9]+)?$"
        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]*)$"
        type: number
    valueUri:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\$*$
        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:
        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}$"
        type: string
        type: object
        type: array
    id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: ^[\r\n\t\$]+$"
        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\$]+'
        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: '^\$*'
        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\$]+'
          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\$]+'
          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: ^\$*
            type: string
            type: object
            type: array
            x-nsei:
              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

```

```

        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[2-9]|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[2-9]|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\$]+'
                                                                                                    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\$]+$'
                                                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: ^\$*$*
                                                                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
                  _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
```



```

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

```

```

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

      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
```

有效载荷示例

帐户 NGSI-v2 密钥值示例

下面是一个以 JSON-LD 格式作为键值的账户示例。当使用 options=keyValues 时，这与 NGSI-v2 兼容，并返回单个实体的上下文数据。

[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"
            }
        ]
    }
}

```

账户 NGSI-v2 标准化示例

下面是一个规范化 JSON-LD 格式的账户示例。在不使用选项的情况下，它与 NGSI-v2 兼容，并返回单个实体的上下文数据。

[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"
      }
    ]
  }
}
}

```

帐户 NGSI-LD 密钥值示例

下面是一个以 JSON-LD 格式作为键值的账户示例。当使用 options=keyValues 时，它与 NGSI-LD 兼容，并返回单个实体的上下文数据。

[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"
      }
    ]
  },
  "@context": [
    "https://raw.githubusercontent.com/smart-data-models/dataModel.HL7/master/context.jsonld"
  ]
}
```

帐户 NGSI-LD 正常化示例

下面是一个规范化 JSON-LD 格式的账户示例。当不使用选项时，它与 NGSI-LD 兼容，并返回单个实体的上下文数据。

show/hide example

```
{
  "resourceType": {
    "type": "Property",
    "value": "Account"
  },
  "type": "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"
}
```

请参阅 [FAQ 10](#)，获取如何处理幅度单位的答案。

[Smart Data Models](#) +++ [Contribution Manual](#) +++ [About](#)