

## Entità: Conto

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Descrizione globale: **\*\***Uno strumento finanziario per tracciare il valore maturato per uno scopo particolare. In ambito sanitario, viene utilizzato per tracciare le spese di un paziente, i centri di costo, ecc.

versione: 0.0.1

## Elenco delle proprietà

[\*] Se non c'è un tipo in un attributo è perché potrebbe avere diversi tipi o diversi formati/modelli.

- `_description[object]`: Estensioni per la descrizione

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `_implicitRules[object]`: Estensioni per implicitRules

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `_language[object]`: Estensioni per la lingua

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `_name[object]`: Estensioni per il nome

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e

gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `_status[object]`: Estensioni di stato

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `address[object]`: L'indirizzo postale . Model: <https://schema.org/address>

- `addressCountry[string]`: Il paese. Ad esempio, la Spagna . Model: <https://schema.org/addressCountry>

- `addressLocality[string]`: La località in cui si trova l'indirizzo civico e che si trova nella regione . Model: <https://schema.org/addressLocality>

- `addressRegion[string]`: La regione in cui si trova la località, e che si trova nel paese . Model: <https://schema.org/addressRegion>

- `district[string]`: Un distretto è un tipo di divisione amministrativa che, in alcuni paesi, è gestita dal governo locale.

- `postOfficeBoxNumber[string]`: Il numero di casella postale per gli indirizzi di casella postale. Ad esempio, 03578 . Model: <https://schema.org/postOfficeBoxNumber>

- `postalCode[string]`: Il codice postale. Ad esempio, 24004 . Model: <https://schema.org/postalCode>

- `streetAddress[string]`: L'indirizzo stradale . Model: <https://schema.org/streetAddress>

- `alternateName[string]`: Un nome alternativo per questa voce

- `areaServed[string]`: L'area geografica in cui viene fornito il servizio o l'articolo offerto. . Model: <https://schema.org/Text>

- `contained[array]`: Queste risorse non hanno un'esistenza indipendente dalla risorsa che le contiene, non possono essere identificate indipendentemente e non possono avere un proprio ambito di transazione indipendente.

- `coverage[array]`: Il/i soggetto/i responsabile/i della copertura del pagamento di questo conto e l'ordine in cui devono essere applicati al conto

- `dataProvider[string]`: una sequenza di caratteri che identifica il fornitore dell'entità di dati armonizzata

- `dateCreated[date-time]`: Timestamp di creazione dell'entità. Di solito viene assegnato dalla piattaforma di archiviazione

- `dateModified[date-time]`: Timestamp dell'ultima modifica dell'entità. Di solito viene assegnato dalla piattaforma di archiviazione

- `description[string]`: Fornisce informazioni aggiuntive su ciò che il conto tiene sotto controllo e su come viene utilizzato.

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base della risorsa. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione.

- `guarantor[array]`: Le parti responsabili del saldo del conto se le altre opzioni di pagamento sono insufficienti

- `hl7type[object]`: Categorizza il conto per scopi di reportistica e ricerca.

- `_text[object]`: Estensioni per il testo

- `coding[array]`: Un riferimento a un codice definito da un sistema terminologico.

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `id[string]`: Id univoco dell'elemento all'interno di una risorsa (per i riferimenti interni). Può essere un qualsiasi valore stringa che non contenga spazi.

- `id[*]`: Identificatore univoco dell'entità

- `identifier[array]`: Identificatore univoco utilizzato per fare riferimento al conto. Può essere o

meno destinato all'uso umano (ad esempio, il numero della carta di credito).

- `implicitRules[string]`: Un riferimento a un insieme di regole che sono state seguite quando la risorsa è stata costruita e che devono essere comprese durante l'elaborazione del contenuto. Spesso si tratta di un riferimento a una guida all'implementazione che definisce le regole speciali insieme ad altri profili, ecc.

- `language[string]`: La lingua di base in cui è scritta la risorsa

- `location[*]`: Riferimento geojson all'elemento. Può essere un punto, una stringa di linea, un poligono, un multi-punto, una stringa di linea o un poligono multiplo.

- `meta[object]`: I metadati sulla risorsa. Si tratta di contenuti mantenuti dall'infrastruttura. Le modifiche al contenuto potrebbero non essere sempre associate a modifiche di versione della risorsa.

- `_lastUpdated[object]`: Estensioni per lastUpdated

- `_source[object]`: Estensioni per la sorgente

- `_versionId[object]`: Estensioni per versionId

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `id[string]`: Id univoco dell'elemento all'interno di una risorsa (per i riferimenti interni). Può essere un qualsiasi valore stringa che non contenga spazi.

- `lastUpdated[string]`: Quando la risorsa è stata modificata l'ultima volta, ad esempio quando è cambiata la versione.

- `profile[array]`: Un elenco di profili (riferimenti a risorse [[[StructureDefinition]]) a cui questa risorsa dichiara di essere conforme. L'URL è un riferimento a [[[StructureDefinition.url]]]

- `security[array]`: Etichette di sicurezza applicate a questa risorsa. Queste etichette collegano risorse specifiche alla politica e all'infrastruttura di sicurezza generale.

- `source[string]`: Un uri che identifica il sistema di origine della risorsa. Questo fornisce una quantità minima di informazioni sulla [[[Provenienza]]] che possono essere utilizzate per tracciare o differenziare la fonte delle informazioni nella risorsa. La fonte può identificare un altro server FHIR, un documento, un messaggio, un database, ecc.

- `tag[array]`: Tag applicati a questa risorsa. I tag sono destinati a essere utilizzati per identificare e mettere in relazione le risorse con i processi e i flussi di lavoro; le applicazioni non sono tenute a considerare i tag quando interpretano il significato di una risorsa.

- `modifierExtension[array]`: Può essere usato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base della risorsa e che modificano la comprensione dell'elemento che lo contiene e/o la comprensione dei discendenti dell'elemento contenente. Di solito gli elementi modificatori forniscono una negazione o una qualificazione. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione. Le applicazioni che elaborano una risorsa sono tenute a verificare la presenza di estensioni modificatrici.

Le estensioni del modificatore NON DEVONO modificare il significato di alcun elemento di Resource o DomainResource (tra cui non può essere modificato il significato della stessa modifierExtension).

- `name[string]`: Nome utilizzato per il conto quando lo si visualizza nei rapporti, ecc.

- `owner[object]`: Indica l'area di servizio, l'ospedale, il reparto, ecc. responsabile della gestione dell'account.

- `_display[object]`: Estensioni per la visualizzazione

- `_reference[object]`: Estensioni di riferimento

- `_type[object]`: Estensioni per il tipo

- `display[string]`: Testo in chiaro che identifica la risorsa oltre al riferimento alla risorsa stessa.

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `id[string]`: Id univoco dell'elemento all'interno di una risorsa (per i riferimenti interni). Può essere un qualsiasi valore stringa che non contenga spazi.

- `identifier[object]`: Un identificatore per la risorsa di destinazione. Si usa quando non c'è modo di fare riferimento all'altra risorsa direttamente, o perché l'entità che rappresenta non è disponibile attraverso un server FHIR, o perché non c'è modo per l'autore della risorsa di convertire

un identificatore noto in una posizione effettiva. Non è richiesto che un `Reference.identifier` punti a qualcosa che sia effettivamente esposto come istanza FHIR, ma DEVE puntare a un concetto aziendale che ci si aspetta sia esposto come istanza FHIR, e tale istanza deve essere di un tipo di risorsa FHIR consentito dal riferimento.

- `reference[string]`: Un riferimento a una posizione in cui si trova l'altra risorsa. Il riferimento può essere un riferimento relativo, nel qual caso è relativo all'URL di base del servizio, o un URL assoluto che si risolve nella posizione in cui si trova la risorsa. Il riferimento può essere specifico per la versione o meno. Se il riferimento non è a un server FHIR RESTful, si presume che sia specifico della versione. I riferimenti a frammenti interni (iniziano con '#') si riferiscono a risorse contenute

- `partOf[object]`: Riferimento a un conto padre

- `_display[object]`: Estensioni per la visualizzazione

- `_reference[object]`: Estensioni di riferimento

- `_type[object]`: Estensioni per il tipo

- `display[string]`: Testo in chiaro che identifica la risorsa oltre al riferimento alla risorsa stessa.

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `id[string]`: Id univoco dell'elemento all'interno di una risorsa (per i riferimenti interni). Può essere un qualsiasi valore stringa che non contenga spazi.

- `identifier[object]`: Un identificatore per la risorsa di destinazione. Si usa quando non c'è modo di fare riferimento all'altra risorsa direttamente, o perché l'entità che rappresenta non è disponibile attraverso un server FHIR, o perché non c'è modo per l'autore della risorsa di convertire un identificatore noto in una posizione effettiva. Non è richiesto che un `Reference.identifier` punti a qualcosa che sia effettivamente esposto come istanza FHIR, ma DEVE puntare a un concetto aziendale che ci si aspetta sia esposto come istanza FHIR, e tale istanza deve essere di un tipo di risorsa FHIR consentito dal riferimento.

- `reference[string]`: Un riferimento a una posizione in cui si trova l'altra risorsa. Il riferimento può essere un riferimento relativo, nel qual caso è relativo all'URL di base del servizio, o un URL assoluto che si risolve nella posizione in cui si trova la risorsa. Il riferimento può essere specifico per la versione o meno. Se il riferimento non è a un server FHIR RESTful, si presume che sia specifico della versione. I riferimenti a frammenti interni (iniziano con '#') si riferiscono a risorse contenute

- `resourceType[string]`: Questa è una risorsa del Conto

- `seeAlso[*]`: elenco di uri che puntano a risorse aggiuntive sull'elemento

- `servicePeriod[object]`: L'intervallo di date dei servizi associati a questo conto

- `_end[object]`: Estensioni per la fine

- `_start[object]`: Estensioni per l'avvio

- `end[string]`: La fine del periodo. Se la fine del periodo è assente, significa che non era nota o prevista al momento della creazione dell'istanza. L'inizio può essere nel passato e la data di fine nel futuro, il che significa che il periodo dovrebbe terminare in quel momento.

- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione

- `id[string]`: Id univoco dell'elemento all'interno di una risorsa (per i riferimenti interni). Può essere un qualsiasi valore stringa che non contenga spazi.

- `source[string]`: Una sequenza di caratteri che indica la fonte originale dei dati dell'entità come URL. Si consiglia di utilizzare il nome di dominio completamente qualificato del provider di origine o l'URL dell'oggetto di origine.

- `status[string]`: Indica se il conto è attualmente utilizzato/utilizzabile o meno.

- `subject[array]`: Identifica l'entità che ha sostenuto le spese. Sebbene i destinatari immediati dei servizi o dei beni possano essere entità collegate al soggetto, le spese sono state sostenute in ultima analisi dal soggetto del conto.

- `text[object]`: Una narrazione leggibile dall'uomo che contiene un riassunto della risorsa e può essere utilizzata per rappresentare il contenuto della risorsa a un essere umano. Non è necessario che la narrazione codifichi tutti i dati strutturati, ma è necessario che contenga dettagli sufficienti a rendere clinicamente sicura la semplice lettura della narrazione da parte di un essere umano. Le definizioni delle risorse possono definire quali contenuti devono essere rappresentati nella narrazione per garantire la sicurezza clinica.

- `_status[object]`: Estensioni di stato

- `div[*]`: Il contenuto narrativo vero e proprio, una versione ridotta di XHTML
- `extension[array]`: Può essere utilizzato per rappresentare informazioni aggiuntive che non fanno parte della definizione di base dell'elemento. Per rendere l'uso delle estensioni sicuro e gestibile, esiste un rigoroso insieme di regole applicate alla definizione e all'uso delle estensioni. Sebbene qualsiasi implementatore possa definire un'estensione, esiste una serie di requisiti che DEVONO essere soddisfatti come parte della definizione dell'estensione
- `id[string]`: Id univoco dell'elemento all'interno di una risorsa (per i riferimenti interni). Può essere un qualsiasi valore stringa che non contenga spazi.

Proprietà richieste

- `id`
- `type`

Modello di dati mappato dalla versione originale 4.3 dello standard HL7. L'attributo originale `-type-` è stato rinominato in `-hl7type-` a causa del conflitto con il tipo obbligatorio in NGSi. Inoltre sono stati eseguiti altri adattamenti minori. Vedere <https://github.com/smart-data-models/dataModel.Hl7/blob/master/README.md> alla radice dell'argomento

## Modello di dati descrizione delle proprietà

Ordinati in ordine alfabetico (clicca per i dettagli)

### full yaml details

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

```

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

```

```

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

```

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

```

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

```



```

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

```

```

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

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

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

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

    description: Upper limit on medication per lifetime of the
patient
    type: string
maxDosePerPeriod:
    description: Upper limit on medication per unit of time
    type: string
method:
    description: Technique for administering medication
    type: string
modifierExtension:
    description: |-
        May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

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

```

```

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

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    _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:

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

```

```

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

```



```

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

```

```

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

```

```

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

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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:

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    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

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determining accountability for various actions concerning the document

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

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

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

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

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

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

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```

    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

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

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

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    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

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

```

```

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

```



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    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    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: 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
        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
        type: array
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      limit:
        description: Specifies a maximum number of results that are
required (uses the _count search parameter)
        type: string
      mustSupport:
        description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport

```

SHALL be a FHIRPath resolveable on the type of the DataRequirement. The path SHALL consist only of identifiers, constant indexers, and .resolve() (see the [Simple FHIRPath Profile](fhirpath.html#simple) for full details)"

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

```

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

```

```

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

```

The identification of the system that provides the coded form of the unit

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

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

```

```

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

```



```

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

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

```

```

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

```

```

        code:
          description: A code that identifies the type of context being
specified by this usage context
          type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          valueCodeableConcept:
            description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
            type: string
          valueQuantity:
            description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
            type: string
          valueRange:
            description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
            type: string
          valueReference:
            description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
            type: string
          required:
            - code
          type: object
          valueUuid:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
            type: string
          type: object
          type: array
        id:
          description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        type: object
        x-ngsi:
          type: Property
      _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\S]+$'
      type: string
    url:
      description: Source of the definition for the extension code - a
logical name or a URL
      pattern: ^\S*$
      type: string
    valueAddress:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _city:
          description: Extensions for city
          type: string
        _country:
          description: Extensions for country
          type: string
        _district:
          description: Extensions for district
          type: string
        _line:
          description: Extensions for line
          items:
            type: array
        _postalCode:
          description: Extensions for postalCode
          type: string
        _state:
          description: Extensions for state
          type: string
        _text:
          description: Extensions for text
          type: string
        _type:
          description: Extensions for type
          type: string
        _use:
          description: Extensions for use
          type: string
        city:
          description: 'The name of the city, town, suburb, village or
other community or delivery center'
          type: string
        country:
          description: Country - a nation as commonly understood or
generally accepted
          type: string
        district:
          description: The name of the administrative area (county)
          type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
          type: array
        id:
          description: 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
          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\S]+$'
        type: string
        extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
        type: array
        id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
        text:
        description: The text of the annotation in markdown format
        type: string
        time:
        description: Indicates when this particular annotation was
made
        type: string
        type: object
        valueAttachment:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        properties:
        _contentType:
        description: Extensions for contentType
        type: string
        _creation:
        description: Extensions for creation
        type: string
        _data:
        description: Extensions for data
        type: string
        _hash:
        description: Extensions for hash
        type: string
        _language:
        description: Extensions for language
        type: string
        _size:
        description: Extensions for size
        type: string
        _title:
        description: Extensions for title
        type: string
        _url:
        description: Extensions for url
        type: string
        contentType:
        description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
        type: string
        creation:
        description: The date that the attachment was first created
        type: string
        data:

```

```

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

```

```

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

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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:

```

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        - 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:

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

```



```

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

```

of the definition of the extension. Applications processing a resource are required to check for modifier extensions.

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

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



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

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

```
  type: string
type:
  description: |-
    The expected type of the target of the reference. If both
    Reference.type and Reference.reference are populated and Reference.reference is a
    FHIR URL, both SHALL be consistent.
    The type is the Canonical URL of Resource Definition that is
    the type this reference refers to. References are URLs that are relative to http://
    hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
    fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
    (and can only be used in references in logical models, not resources)
```

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

```
properties:
  _citation:
    description: Extensions for citation
    type: string
  _display:
    description: Extensions for display
    type: string
  _label:
    description: Extensions for label
    type: string
  _type:
    description: Extensions for type
    type: string
  _url:
    description: Extensions for url
    type: string
citation:
  description:
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
```

```
  type: string
display:
  description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
```

```
  type: string
document:
  description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
```

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

```
items:
  type: array
id:
  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

```

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

```

```

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

```

```

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

```

```

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

```

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

```
    items:
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    valueCodeableConcept:
      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
      type: string
    valueQuantity:
      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
      type: string
    valueRange:
      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
      type: string
    valueReference:
      description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
      type: string
    required:
      - code
    type: object
    valueUuid:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: '^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$'
      type: string
    type: object
    type: array
  id:
    description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
  type: object
  x-ngsi:
    type: Property
  _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
        _value0id:
          additionalProperties: false
          description: Extensions for value0id
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              type: object
            _valuePositiveInt:
              additionalProperties: false
              description: Extensions for valuePositiveInt
              properties:
                extension:
                  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                  items:
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                  type: object
                _valueString:
                  additionalProperties: false
                  description: Extensions for valueString
                  properties:
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                      type: object
                    _valueTime:
                      additionalProperties: false
                      description: Extensions for valueTime
                      properties:
                        extension:
                          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                          items:
                            type: array

```

```

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

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```

    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
  url:
    description: Source of the definition for the extension code - a
logical name or a URL
    pattern: ^\S*$
    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:

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```

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

```

```

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

```

A reference to a concept - e.g. the information is identified by its general class to the degree of precision found in the terminology

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

```

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

```



```

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

```

```

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

```

```

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

```

```

    type: string
  type: object
  valueDosage:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _asNeededBoolean:
      description: Extensions for asNeededBoolean
      type: string
    _patientInstruction:
      description: Extensions for patientInstruction
      type: string
    _sequence:
      description: Extensions for sequence
      type: string
    _text:
      description: Extensions for text
      type: string
    additionalInstruction:
      description:

```

Supplemental instructions to the patient on how to take the medication (e.g. with meals or take half to one hour before food) or warnings for the patient about the medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight or sunlamps)

```

    items:
      type: array
    asNeededBoolean:
      description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
      pattern: ^true|false$
      type: boolean
    asNeededCodeableConcept:
      description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
      type: string
    doseAndRate:
      description: The amount of medication administered
      items:
        type: array
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    maxDosePerAdministration:
      description: Upper limit on medication per administration
      type: string
    maxDosePerLifetime:
      description: Upper limit on medication per lifetime of the
patient

```

```

      type: string
    maxDosePerPeriod:
      description: Upper limit on medication per unit of time
      type: string
    method:
      description: Technique for administering medication
      type: string
    modifierExtension:
      description: |-
        May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

```

```

      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.

```

```

      type: string
    maxDosePerPeriod:
      description: Upper limit on medication per unit of time
      type: string
    method:
      description: Technique for administering medication
      type: string
    modifierExtension:
      description: |-
        May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

```

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

```

    items:
      type: array
    patientInstruction:
      description: Instructions in terms that are understood by the

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

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

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```

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

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        type: string
    type: object
    _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:

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

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

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

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

```

```

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

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    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

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

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

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definition of the extension'
  items:
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  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'

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        items:
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    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

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    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:

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        description: A human-readable form of the unit
        type: string
    value:
        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
        type: string
    type: object
    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'

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        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

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    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

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    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

```



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    _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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

- derived-from
- depends-on
- composed-of

url:

- description: A url for the artifact that can be followed to access the actual content
- type: string

type: object

valueSampledData:

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

properties:

- \_data:
  - description: Extensions for data
  - type: string
- \_dimensions:
  - description: Extensions for dimensions
  - type: string
- \_factor:
  - description: Extensions for factor
  - type: string
- \_lowerLimit:
  - description: Extensions for lowerLimit
  - type: string
- \_period:
  - description: Extensions for period
  - type: string
- \_upperLimit:
  - description: Extensions for upperLimit
  - type: string

data:

- description: 'A series of data points which are decimal values separated by a single space (character u20). The special values E (error), L (below detection limit) and U (above detection limit) can also be used in place of a decimal value'
- type: string

dimensions:

- description: 'The number of sample points at each time point. If this value is greater than one, then the dimensions will be interlaced - all the sample points for a point in time will be recorded at once'
- type: string

extension:

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

items:

- type: array

factor:

- description: A correction factor that is applied to the sampled data points before they are added to the origin
- type: string

id:

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

lowerLimit:

- description: The lower limit of detection of the measured points. This is needed if any of the data points have the value L (lower than detection limit)
- type: string

origin:

- description: 'The base quantity that a measured value of zero represents. In addition, this provides the units of the entire measurement series'
- type: string

period:

- description: 'The length of time between sampling times, measured in milliseconds'
- type: string

upperLimit:

- description: The upper limit of detection of the measured points. This is needed if any of the data points have the value U (higher than detection limit)
- type: string

required:

- origin

type: object

valueSignature:

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



```

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

```

code.text). Some codes such as BID are ubiquitous, but many institutions define their own additional codes. If a code is provided, the code is understood to be a complete statement of whatever is specified in the structured timing data, and either the code or the data may be used to interpret the Timing, with the exception that .repeat.bounds still applies over the code (and is not contained in the code)'

```

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

```

```

        type: string
        name:
        description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
        type: string
        timingDate:
        description: The timing of the event (if this is a periodic
trigger)
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2]))(- (0[1-9]|1[2-9]|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

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```

        valueRange:
          description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
          type: string
        valueReference:
          description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
          type: string
        required:
        - code
        type: object
        valueUuid:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
          type: string
        type: object
        type: array
      id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
      type: object
      x-ngsi:
        type: Property
      address:
        description: The mailing address
        properties:
          addressCountry:
            description: 'The country. For example, Spain'
            type: string
            x-ngsi:
              model: https://schema.org/addressCountry
              type: Property
          addressLocality:
            description: 'The locality in which the street address is, and which is
in the region'
            type: string
            x-ngsi:
              model: https://schema.org/addressLocality
              type: Property
          addressRegion:
            description: 'The region in which the locality is, and which is in the
country'
            type: string
            x-ngsi:
              model: https://schema.org/addressRegion
              type: Property
          district:
            description: 'A district is a type of administrative division that, in
some countries, is managed by the local government'
            type: string
            x-ngsi:
              type: Property
          postOfficeBoxNumber:
            description: 'The post office box number for PO box addresses. For
example, 03578'
            type: string
            x-ngsi:
              model: https://schema.org/postOfficeBoxNumber
              type: Property
          postalCode:
            description: 'The postal code. For example, 24004'
            type: string
            x-ngsi:
              model: https://schema.org/https://schema.org/postalCode
              type: Property
          streetAddress:
            description: The street address
            type: string
            x-ngsi:
              model: https://schema.org/streetAddress
              type: Property
          streetNr:
            description: Number identifying a specific property on a public
street
            type: string
            x-ngsi:
              type: Property
        type: object
      x-ngsi:
        model: https://schema.org/address

```

```

    type: Property
  alternateName:
    description: An alternative name for this item
    type: string
  x-ngsi:
    type: Property
  areaServed:
    description: The geographic area where a service or offered item is
provided
    type: string
  x-ngsi:
    model: https://schema.org/Text
    type: Property
  contained:
    description: 'These resources do not have an independent existence apart
from the resource that contains them - they cannot be identified independently,
and nor can they have their own independent transaction scope'
    items:
      type: string
    type: array
  x-ngsi:
    type: Property
  coverage:
    description: 'The party(s) that are responsible for covering the payment of
this account, and what order should they be applied to the account'
    items:
      additionalProperties: false
      properties:
        _priority:
          additionalProperties: false
          description: Extensions for priority
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            type: object
          coverage:
            additionalProperties: false
            description: |-
The party(s) that contribute to payment (or part of) of the charges
applied to this account (including self-pay).
A coverage may only be responsible for specific types of charges, and the sequence
of the coverages in the account could be important when processing billing
          properties:
            _display:
              additionalProperties: false
              description: Extensions for display
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
              type: object
            _reference:
              additionalProperties: false
              description: Extensions for reference
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the

```

```

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

```

```

    period:
      description: Time period during which identifier is/was valid
    type: string
  system:
    description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
    type: string
  type:
    description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
    type: string
  use:
    description: The purpose of this identifier
    enum:
      - usual
      - official
      - temp
      - secondary
      - old
  value:
    description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
    type: string
  type: object
  reference:
    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
    pattern: '^[ \r\n\t\S]+$'
    type: string
  type:
    description: |-
      The expected type of the target of the reference. If both
      Reference.type and Reference.reference are populated and Reference.reference is a
      FHIR URL, both SHALL be consistent.
      The type is the Canonical URL of Resource Definition that is the
      type this reference refers to. References are URLs that are relative to http://
      hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
      fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
      (and can only be used in references in logical models, not resources)
    pattern: ^S*$
    type: string
  type: object
  extension:
    description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
  items:
    additionalProperties: false
    properties:
      _url:
        description: Extensions for url
        type: string
      _valueBase64Binary:
        description: Extensions for valueBase64Binary
        type: string
      _valueBoolean:
        description: Extensions for valueBoolean
        type: string
      _valueCanonical:
        description: Extensions for valueCanonical
        type: string
      _valueCode:
        description: Extensions for valueCode
        type: string
      _valueDate:
        description: Extensions for valueDate
        type: string
      _valueDateTime:
        description: Extensions for valueDateTime
        type: string
      _valueDecimal:
        description: Extensions for valueDecimal
        type: string
      _valueId:
        description: Extensions for valueId
        type: string
      _valueInstant:

```

```

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

```



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

```

```

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

```

```

        pattern: ^[0]|([1-9][0-9]*)$
        type: number
    valueUri:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\S*$
        type: string
    valueUrl:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\S*$
        type: string
    valueUsageContext:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueUuid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$
        type: string
    type: object
    type: array
    id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
    modifierExtension:
        description: |-
            May be used to represent additional information that is not part of
the basic definition of the element and that modifies the understanding of the
element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.

            Modifier extensions SHALL NOT change the meaning of any elements on
Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
    items:
        additionalProperties: false
        properties:
            _url:
                description: Extensions for url
                type: string
            _valueBase64Binary:
                description: Extensions for valueBase64Binary
                type: string
            _valueBoolean:
                description: Extensions for valueBoolean
                type: string
            _valueCanonical:
                description: Extensions for valueCanonical
                type: string
            _valueCode:
                description: Extensions for valueCode
                type: string
            _valueDate:
                description: Extensions for valueDate
                type: string
            _valueDateTime:
                description: Extensions for valueDateTime
                type: string
            _valueDecimal:
                description: Extensions for valueDecimal
                type: string
            _valueId:
                description: Extensions for valueId
                type: string
            _valueInstant:
                description: Extensions for valueInstant
                type: string
            _valueInteger:
                description: Extensions for valueInteger
                type: string
            _valueMarkdown:
                description: Extensions for valueMarkdown
                type: string
            _valueOid:
                description: Extensions for valueOid
                type: string
            _valuePositiveInt:

```

```

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

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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)(-
(01-9|10-2))(- (01-9|1-2)[0-9]3[0-1])))?$
  type: string
valueDateTime:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^([0-9]([0-9]([0-9]1-9|1-9)0|1-9)00|1-9)000)(-
(01-9|10-2))(- (01-9|1-2)[0-9]3[0-1])(T([01][0-9]2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
  type: string
valueDecimal:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^-?(0|[1-9][0-9]*)\.([0-9]+)?([eE][+-]?[0-9]+)?$
  type: number
valueDistance:
  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)(-
(01-9|10-2))(- (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\S]+$
  type: string
valueMoney:
  description: 'Value of extension - must be one of a constrained

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

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        valueUsageContext:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            type: string
        valueUuid:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$
            type: string
        type: object
        type: array
    priority:
        description: The priority of the coverage in the context of this
account
        pattern: ^[1-9][0-9]*$
        type: number
    required:
        - coverage
    type: object
    type: array
    x-ngsi:
        type: Property
    dataProvider:
        description: A sequence of characters identifying the provider of the
harmonised data entity
        type: string
    x-ngsi:
        type: Property
    dateCreated:
        description:
Entity creation timestamp. This will usually be allocated by the storage
platform
        format: date-time
        type: string
    x-ngsi:
        type: Property
    dateModified:
        description: Timestamp of the last modification of the entity. This will
usually be allocated by the storage platform
        format: date-time
        type: string
    x-ngsi:
        type: Property
    description:
        description: Provides additional information about what the account tracks
and how it is used
        pattern: '^[ \r\n\t\S]+$'
        type: string
    x-ngsi:
        type: Property
    extension:
        description: 'May be used to represent additional information that is not
part of the basic definition of the resource. To make the use of extensions safe
and manageable, there is a strict set of governance applied to the definition and
use of extensions. Though any implementer can define an extension, there is a set
of requirements that SHALL be met as part of the definition of the extension'
        items:
            additionalProperties: false
        properties:
            _url:
                additionalProperties: false
                description: Extensions for url
            properties:
                extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                        type: string
                    type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                pattern: '^[ \r\n\t\S]+$'
                type: string
            type: object
            _valueBase64Binary:
                additionalProperties: false
                description: Extensions for valueBase64Binary
            properties:
                extension:
                    description: 'May be used to represent additional information that

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

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

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

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

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

```
      items:
```



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

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```

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

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

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

```

```

        description: Extensions for valueTime
        type: string
    _valueUnsignedInt:
        description: Extensions for valueUnsignedInt
        type: string
    _valueUri:
        description: Extensions for valueUri
        type: string
    _valueUrl:
        description: Extensions for valueUrl
        type: string
    _valueUuid:
        description: Extensions for valueUuid
        type: string
    extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
            type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    url:
        description: Source of the definition for the extension code - a
logical name or a URL
        type: string
    valueAddress:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueAge:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueAnnotation:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueAttachment:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueBase64Binary:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^(\s*([0-9a-zA-Z\+/\=]){4}\s*)+
        type: string
    valueBoolean:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^true|false$
        type: boolean
    valueCanonical:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\S*$
        type: string
    valueCode:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^([^\s]+(\s[^\s]+))*$
        type: string
    valueCodeableConcept:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueCodeableReference:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueCoding:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueContactDetail:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        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]+)?([E][+-]?[0-9]+)??$
  type: number
  valueDistance:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueDosage:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueDuration:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueExpression:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueHumanName:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueId:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^[A-Za-z0-9\-\.\.]{1,64}$
  type: string
  valueIdentifier:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueInstant:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^([0-9]([0-9]([0-9]([1-9]|1-9]0)|1-9]00)|1-9]000)(-
(0[1-9]|1[0-2]))(- (0[1-9]|1-2][0-9]|3[0-1]))T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))$
  type: string
  valueInteger:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^~?([0]([1-9][0-9]*))$
  type: number
  valueMarkdown:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: '^[ \r\n\t\S]+$'
  type: string
  valueMoney:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueOid:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$

```

```

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

```

```

set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$
    type: string
    type: object
    type: array
    id:
      description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
      pattern: '^[ \r\n\t\S]+$'
      type: string
    url:
      description: Source of the definition for the extension code - a
logical name or a URL
      pattern: ^\S*$
      type: string
    valueAddress:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _city:
        additionalProperties: false
        description: Extensions for city
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        type: object
      _country:
        additionalProperties: false
        description: Extensions for country
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        type: object
      _district:
        additionalProperties: false
        description: Extensions for district
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        type: object
      _line:
        description: Extensions for line
        items:
          type: string
        type: array
      _postalCode:
        additionalProperties: false
        description: Extensions for postalCode

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```



```

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

```

```

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

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

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

```
      type: string
    type:
      description: |-
        The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
        The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
```

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

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

```
      items:
        type: string
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
```

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

```
      items:
        type: string
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    type: object
  _system:
    additionalProperties: false
```

```

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

```

```

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

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

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        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        type: string
    extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
            type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    start:
        description: The start of the period. The boundary is
inclusive
        type: string
    type: object
    rank:
        description: Specifies a preferred order in which to use a set of
contacts. ContactPoints with lower rank values are more preferred than those with
higher rank values
        pattern: ^[1-9][0-9]*$
        type: number
    system:
        description: Telecommunications form for contact point - what
communications system is required to make use of the contact
        enum:
            - phone
            - fax
            - email
            - pager
            - url
            - sms
            - other
    use:
        description: Identifies the purpose for the contact point
        enum:
            - home
            - work
            - temp
            - old
            - mobile
    value:
        description: 'The actual contact point details, in a form that is
meaningful to the designated communication system (i.e. phone number or email
address)'
        pattern: '^[ \r\n\t\S]+$'
        type: string
    type: object
    valueContributor:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        properties:
            _name:
                additionalProperties: false
                description: Extensions for name
                properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                            type: string
                        type: array
                    id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                    type: object
                _type:
                    additionalProperties: false
                    description: Extensions for type
                    properties:
                        extension:
                            description: 'May be used to represent additional information

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

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

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

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

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

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

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    _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: 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:
      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))(-([0-9]|
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))(-([0-9]|
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:
      additionalProperties: false
      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:

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

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

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

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

```



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

```

```

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

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

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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:

```

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

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

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

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

```



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

```

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

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

```

**fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models (and can only be used in references in logical models, not resources)**

```
    type: string
    type: object
  extension:
    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
    items:
      type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
  period:
    additionalProperties: false
    description: Time period during which identifier is/was valid for
use
    properties:
      _end:
        description: Extensions for end
        type: string
      _start:
        description: Extensions for start
        type: string
      end:
        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      start:
        description: The start of the period. The boundary is
inclusive
        type: string
    type: object
  system:
    description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
    pattern: '^S*$'
    type: string
  type:
    additionalProperties: false
    description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
    properties:
      _text:
        description: Extensions for text
        type: string
      coding:
        description: A reference to a code defined by a terminology
system
        items:
          type: string
        type: array
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
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internal references). This may be any string value that does not contain spaces
  type: string
  text:
    description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
    type: string
  type: object
  use:
    description: The purpose of this identifier
    enum:
      - usual
      - official
      - temp
      - secondary
      - old
    value:
      description: The portion of the identifier typically relevant to
the user and which is unique within the context of the system
      pattern: '^[\r\n\t\S]+$'
      type: string
  type: object
  valueInstant:
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: '^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-(0[1-9]|
1[0-2])-(0[1-9]|1[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\
[0-9]+)?(Z|(\+|-(0[0-9]|1[0-3]):[0-5][0-9]|14:00))$'
    type: string
  valueInteger:
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: '^~?([0]([1-9][0-9]*)$'
    type: number
  valueMarkdown:
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: '^[\r\n\t\S]+$'
    type: string
  valueMoney:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _currency:
        additionalProperties: false
        description: Extensions for currency
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
          type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      type: object
    _value:
      additionalProperties: false
      description: Extensions for value
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
          type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      type: object
    currency:
      description: ISO 4217 Currency Code
      pattern: '^(\s)+(\s[^\s]+)*$'
      type: string

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

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

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```

        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
                        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

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internal references). This may be any string value that does not contain spaces
  pattern: '^[ \r\n\t\S]+$'
  type: string
  start:
    description: The start of the period. The boundary is inclusive
    pattern: '^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])|(- (0[1-9]|1[1-2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$'
  type: string
  type: object
  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

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

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

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        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'

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

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        description: A human-readable form of the unit
        type: string
    value:
        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
        type: string
    type: object
    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:

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```

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

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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
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
```

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

```



```

- secondary
- old
value:
  description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
  type: string
type: object
reference:
  description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
  pattern: '^[ \r\n\t\S]+$'
  type: string
type:
  description: |-
    The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
    The type is the Canonical URL of Resource Definition that is the
type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
  pattern: ^S*$
  type: string
type: object
valueRelatedArtifact:
  additionalProperties: false
  description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _citation:
      additionalProperties: false
      description: Extensions for citation
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
          type: object
        _display:
          additionalProperties: false
          description: Extensions for display
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
              type: object
          _label:
            additionalProperties: false
            description: Extensions for label
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string

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

```

```

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

```

```

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

```

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

```
    items:
      type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  type: object
  _upperLimit:
```

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

```
    items:
      type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  type: object
```

```
  data:
    description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
```

```
    pattern: '^[ \r\n\t\S]+$'
    type: string
  dimensions:
    description: 'The number of sample points at each time point. If
this value is greater than one, then the dimensions will be interlaced - all the
sample points for a point in time will be recorded at once'
```

```
    pattern: ^[1-9][0-9]*$
    type: number
  extension:
    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
```

```
    items:
      type: string
    type: array
  factor:
    description: A correction factor that is applied to the sampled
data points before they are added to the origin
    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
    type: number
```

```
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
  lowerLimit:
    description: The lower limit of detection of the measured points.
This is needed if any of the data points have the value L (lower than detection
limit)
```

```
    pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
    type: number
  origin:
    additionalProperties: false
    description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'
```

```
  properties:
    _code:
      description: Extensions for code
      type: string
    _comparator:
      description: Extensions for comparator
      type: string
    _system:
      description: Extensions for system
      type: string
```

```

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

```

```

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

```

```

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

```



```

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

```

exception that `.repeat.bounds` still applies over the code (and is not contained in the code)'

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

```

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

```

```

- mo
- a
extension:
  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
  items:
    type: string
  type: array
frequency:
  description: 'The number of times to repeat the action within
the specified period. If frequencyMax is present, this element indicates the lower
bound of the allowed range of the frequency'
  type: string
frequencyMax:
  description: 'If present, indicates that the frequency is a
range - so to repeat between [frequency] and [frequencyMax] times within the
period or period range'
  type: string
id:
  description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
  type: string
modifierExtension:
  description: |-
    May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
    Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
  items:
    type: string
  type: array
offset:
  description: 'The number of minutes from the event. If the
event code does not indicate whether the minutes is before or after the event,
then the offset is assumed to be after the event'
  type: string
period:
  description: 'Indicates the duration of time over which
repetitions are to occur; e.g. to express 3 times per day, 3 would be the
frequency and 1 day would be the period. If periodMax is present, this element
indicates the lower bound of the allowed range of the period length'
  type: string
periodMax:
  description: 'If present, indicates that the period is a range
from [period] to [periodMax], allowing expressing concepts such as do this once
every 3-5 days'
  type: string
periodUnit:
  description: The units of time for the period in UCUM units
  enum:
    - s
    - min
    - h
    - d
    - wk
    - mo
    - a
timeOfDay:
  description: Specified time of day for action to take place
  items:
    type: string
  type: array
when:
  description: 'An approximate time period during the day,
potentially linked to an event of daily living that indicates when the action
should occur'
  items:
    enum:
      - MORN
      - MORN.early
      - MORN.late
      - NOON
      - AFT
      - AFT.early

```

```

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

```

```

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

```

```

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

```

```

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

```



```

the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^[0]([1-9][0-9]*)$
  type: number
  valueUri:
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\S*$
    type: string
  valueUrl:
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\S*$
    type: string
  valueUsageContext:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    code:
      additionalProperties: false
      description: A code that identifies the type of context being
specified by this usage context
    properties:
      _code:
        description: Extensions for code
        type: string
      _display:
        description: Extensions for display
        type: string
      _system:
        description: Extensions for system
        type: string
      _userSelected:
        description: Extensions for userSelected
        type: string
      _version:
        description: Extensions for version
        type: string
    code:
      description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
      type: string
    display:
      description: 'A representation of the meaning of the code in
the system, following the rules of the system'
      type: string
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: string
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    system:
      description:
The identification of the code system that defines the meaning of the symbol in the
code
      type: string
    userSelected:
      description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
      type: string
    version:
      description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the
version reported, because the meaning of codes is consistent across versions.
However this cannot consistently be assured, and when the meaning is not
guaranteed to be consistent, the version SHOULD be exchanged'
      type: string
    type: object
    extension:
      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
      items:

```

```

        type: string
    type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
    valueCodeableConcept:
        additionalProperties: false
        description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
        properties:
            _text:
                description: Extensions for text
                type: string
            coding:
                description: A reference to a code defined by a terminology
system

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

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

```

```

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

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relative to the service base URL, or an absolute URL that resolves to the location where the resource is found. The reference may be version specific or not. If the reference is not to a FHIR RESTful server, then it should be assumed to be version specific. Internal fragment references (start with '#') refer to contained resources"

```
    type: string
  type:
    description: |-
      The expected type of the target of the reference. If both
      Reference.type and Reference.reference are populated and Reference.reference is a
      FHIR URL, both SHALL be consistent.
      The type is the Canonical URL of Resource Definition that is
      the type this reference refers to. References are URLs that are relative to http://
      hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
      fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
      (and can only be used in references in logical models, not resources)
    type: string
  type: object
  required:
    - code
  type: object
  valueUuid:
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
    type: string
  type: object
  type: array
  x-ngsi:
    type: Property
  guarantor:
    description: The parties responsible for balancing the account if other
payment options fall short
    items:
      additionalProperties: false
      properties:
        _onHold:
          additionalProperties: false
          description: Extensions for onHold
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
            type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
      type: object
    extension:
      description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
    items:
      additionalProperties: false
      properties:
        _url:
          description: Extensions for url
          type: string
        _valueBase64Binary:
          description: Extensions for valueBase64Binary
          type: string
        _valueBoolean:
          description: Extensions for valueBoolean
          type: string
        _valueCanonical:
          description: Extensions for valueCanonical
          type: string
        _valueCode:
          description: Extensions for valueCode
          type: string
        _valueDate:
          description: Extensions for valueDate
          type: string
        _valueDateTime:
```

```

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

```

```

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

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

```

```

set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueTriggerDefinition:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueUnsignedInt:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^[0]([1-9][0-9]*)$
  type: number
  valueUri:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^S*$
  type: string
  valueUrl:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^S*$
  type: string
  valueUsageContext:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  type: string
  valueUuid:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$
  type: string
  type: object
  type: array
  id:
    description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
  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:

```



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        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)'

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        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)'

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

```

```

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

```

```

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

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    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[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])|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

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internal references). This may be any string value that does not contain spaces
  pattern: '^[ \r\n\t\S]+$'
  type: string
  start:
    description: The start of the period. The boundary is inclusive
    pattern: '^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])|(- (0[1-9]|1[2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9])?)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$'
  type: string
  type: object
  required:
    - party
  type: object
  type: array
  x-ngsi:
    type: Property
hl7type:
  additionalProperties: false
  description: Categorizes the account for reporting and searching purposes
  properties:
    _text:
      additionalProperties: false
      description: Extensions for text
      properties:
        extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
      items:
        additionalProperties: false
        properties:
          _url:
            description: Extensions for url
            type: string
          _valueBase64Binary:
            description: Extensions for valueBase64Binary
            type: string
          _valueBoolean:
            description: Extensions for valueBoolean
            type: string
          _valueCanonical:
            description: Extensions for valueCanonical
            type: string
          _valueCode:
            description: Extensions for valueCode
            type: string
          _valueDate:
            description: Extensions for valueDate
            type: string
          _valueDateTime:
            description: Extensions for valueDateTime
            type: string
          _valueDecimal:
            description: Extensions for valueDecimal
            type: string
          _valueId:
            description: Extensions for valueId
            type: string
          _valueInstant:
            description: Extensions for valueInstant
            type: string
          _valueInteger:
            description: Extensions for valueInteger
            type: string
          _valueMarkdown:
            description: Extensions for valueMarkdown
            type: string
          _valueOid:
            description: Extensions for valueOid
            type: string
          _valuePositiveInt:
            description: Extensions for valuePositiveInt
            type: string
          _valueString:
            description: Extensions for valueString
            type: string
          _valueTime:
            description: Extensions for valueTime
            type: string
          _valueUnsignedInt:
            description: Extensions for valueUnsignedInt
            type: string
          _valueUri:

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        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:

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

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

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

```

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

```

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

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```

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

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

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extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
  items:
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  type: object
  _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:

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

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

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    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

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

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definition of the extension'
  items:
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  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:

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

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```

    _code:
      description: Extensions for code
      type: string
    _comparator:
      description: Extensions for comparator
      type: string
    _system:
      description: Extensions for system
      type: string
    _unit:
      description: Extensions for unit
      type: string
    _value:
      description: Extensions for value
      type: string
  code:
    description: A computer processable form of the unit in some
unit representation system
    type: string
  comparator:
    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
    enum:
      - <
      - <=
      - '>='
      - >
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  system:
    description:
The identification of the system that provides the coded form of the unit
    type: string
  unit:
    description: A human-readable form of the unit
    type: string
  value:
    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
    type: string
  type: object
  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
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```
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[2-3]|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[0-9]|1[0-3]):[0-5][0-9]|14:00))$
    type: string
    valueInteger:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^-?([0]|([1-9][0-9]*))$
      type: number
    valueMarkdown:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: '^[ \r\n\t\S]+$'
      type: string
    valueMoney:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _currency:
          description: Extensions for currency
          type: string
        _value:
          description: Extensions for value
          type: string
        currency:
          description: ISO 4217 Currency Code
          type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        value:
          description: Numerical value (with implicit precision)
          type: string
      type: object
    valueOid:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+
      type: string
    valueParameterDefinition:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _documentation:
          description: Extensions for documentation
          type: string
        _max:
          description: Extensions for max
          type: string
        _min:
          description: Extensions for min
          type: string
        _name:
          description: Extensions for name
          type: string
        _type:
          description: Extensions for type
          type: string
        _use:
          description: Extensions for use
          type: string
        documentation:
          description: A brief discussion of what the parameter is for
and how it is used by the module
          type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
        id:

```

```

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

```



```

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

```

```

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

```

FHIR URL, both SHALL be consistent.

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

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

```

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

```

The base64 encoding of the Signature content. When signature is not recorded electronically this element would be empty

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

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

```

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

```

```

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

```

```

set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
    type: string
    type: object
    type: array
    id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
    text:
        description: A human language representation of the concept as seen/
selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
        pattern: '^[ \r\n\t\S]+$'
        type: string
    type: object
    x-ngsi:
        type: Property
    id:
        anyOf:
            - description: Identifier format of any NGSI entity
              maxLength: 256
              minLength: 1
              pattern: ^[\w\-\.\{\}\$\+\*\[\]]`|~^@!,:\\]+$
              type: string
              x-ngsi:
                type: Property
            - description: Identifier format of any NGSI entity
              format: uri
              type: string
              x-ngsi:
                type: Property
        description: Unique identifier of the entity
        x-ngsi:
            type: Property
    identifier:
        description:
Unique identifier used to reference the account. Might or might not be intended
for human use (e.g. credit card number)
        items:
            additionalProperties: false
        properties:
            _system:
                additionalProperties: false
                description: Extensions for system
                properties:
                    extension:
                        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
                type: string
            type: array
        id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
        type: object
        _use:
            additionalProperties: false
            description: Extensions for use
            properties:
                extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
                type: string
            type: array
        id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
        type: object
        _value:
            additionalProperties: false

```



```

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

```

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

```

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

```

```

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

```

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

```

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

```

```

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

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```

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

```

```

    additionalProperties: false
    description: Extensions for end
    properties:
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      type: object
    _start:
      additionalProperties: false
      description: Extensions for start
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        type: object
      end:
        description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])|-(0[1-9]|1[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\S]+$'
        type: string
      start:
        description: The start of the period. The boundary is inclusive
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])|-(0[1-9]|1[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\\.([0-9]+)?(Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
        type: string
      type: object
    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\S]+$'
      type: string
    text:
      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
      pattern: '^[\r\n\t\S]+$'
      type: string
      type: object
    use:
      description: The purpose of this identifier
      enum:
        - usual
        - official
        - temp
        - secondary
        - old
      value:
      description: The portion of the identifier typically relevant to the
user and which is unique within the context of the system
      pattern: '^[\r\n\t\S]+$'
      type: string
      type: object
      type: array
    x-ngsi:
      type: Property
    implicitRules:
      description: 'A reference to a set of rules that were followed when the
resource was constructed, and which must be understood when processing the
content. Often, this is a reference to an implementation guide that defines the
special rules along with other profiles etc'
      pattern: '^S*$'
      type: string
    x-ngsi:
      type: Property
    language:
      description: The base language in which the resource is written
      pattern: '^([\s]+([\s^\s]+))*$'
      type: string
    x-ngsi:
      type: Property
    location:
      description: 'Geojson reference to the item. It can be Point, LineString,
Polygon, MultiPoint, MultiLineString or MultiPolygon'
    oneOf:
      - description: Geojson reference to the item. Point
        properties:
          bbox:
            items:
              type: number
            minItems: 4
            type: array
          coordinates:
            items:
              type: number
            minItems: 2
```



```

    type: array
  type:
    enum:
      - Point
    type: string
  required:
    - type
    - coordinates
  title: GeoJSON Point
  type: object
  x-ngsi:
    type: GeoProperty
- description: Geojson reference to the item. LineString
  properties:
    bbox:
      items:
        type: number
      minItems: 4
      type: array
    coordinates:
      items:
        items:
          type: number
        minItems: 2
        type: array
      minItems: 2
      type: array
    type:
      enum:
        - LineString
      type: string
  required:
    - type
    - coordinates
  title: GeoJSON LineString
  type: object
  x-ngsi:
    type: GeoProperty
- description: Geojson reference to the item. Polygon
  properties:
    bbox:
      items:
        type: number
      minItems: 4
      type: array
    coordinates:
      items:
        items:
          type: number
        minItems: 2
        type: array
      minItems: 4
      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:
        type: number
      minItems: 2
      type: array
    minItems: 4
    type: array
  type: array
type:
  enum:
    - MultiPolygon
  type: string
required:
- type
- coordinates
title: GeoJSON MultiPolygon
type: object
x-ngsi:
  type: GeoProperty
x-ngsi:
  type: GeoProperty
meta:
  additionalProperties: false
  description: The metadata about the resource. This is content that is
    maintained by the infrastructure. Changes to the content might not always be
    associated with version changes to the resource
  properties:
    _lastUpdated:
      additionalProperties: false
      description: Extensions for lastUpdated
      properties:
        extension:
          description: 'May be used to represent additional information that
            is not part of the basic definition of the element. To make the use of extensions
            safe and manageable, there is a strict set of governance applied to the
            definition and use of extensions. Though any implementer can define an extension,
            there is a set of requirements that SHALL be met as part of the definition of the
            extension'
          items:
            additionalProperties: false
            properties:
              _url:

```

```

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

```

```

        type: string
        valueAnnotation:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueAttachment:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueBase64Binary:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^(\s*([0-9a-zA-Z\+\/=]){4}\s*)+$
        type: string
        valueBoolean:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

        pattern: ^S*$
        type: string
        valueCode:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

        type: string
        valueCodeableReference:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueCoding:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueContactDetail:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueContactPoint:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueContributor:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueCount:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDataRequirement:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDate:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

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

```

```

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

```

```

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

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

```

        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
        type: string
        type: object
        type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\S]+$'
          type: string
        type: object
        _source:
          additionalProperties: false
          description: Extensions for source
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
```

items:  
 additionalProperties: false  
 properties:

```

        _url:
          description: Extensions for url
          type: string
        _valueBase64Binary:
          description: Extensions for valueBase64Binary
          type: string
        _valueBoolean:
          description: Extensions for valueBoolean
          type: string
        _valueCanonical:
          description: Extensions for valueCanonical
          type: string
        _valueCode:
          description: Extensions for valueCode
          type: string
        _valueDate:
          description: Extensions for valueDate
          type: string
        _valueDateTime:
          description: Extensions for valueDateTime
          type: string
        _valueDecimal:
          description: Extensions for valueDecimal
          type: string
        _valueId:
          description: Extensions for valueId
          type: string
        _valueInstant:
          description: Extensions for valueInstant
          type: string
        _valueInteger:
          description: Extensions for valueInteger
          type: string
        _valueMarkdown:
          description: Extensions for valueMarkdown
          type: string
        _valueOid:
          description: Extensions for valueOid
          type: string
        _valuePositiveInt:
          description: Extensions for valuePositiveInt
          type: string
        _valueString:
          description: Extensions for valueString
          type: string
        _valueTime:
          description: Extensions for valueTime
          type: string
        _valueUnsignedInt:
          description: Extensions for valueUnsignedInt
```

```

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

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        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

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

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constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^[ \r\n\t\S]+$'
    type: string
    valueTime:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[
[0-9]+)?$'
    type: string
    valueTiming:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueTriggerDefinition:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueUnsignedInt:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^([0]|([1-9][0-9]*)$'
    type: number
    valueUri:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^S*$'
    type: string
    valueUrl:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^S*$'
    type: string
    valueUsageContext:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueUuid:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$'
    type: string
    type: object
    type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
    type: object
    _versionId:
      additionalProperties: false
      description: Extensions for versionId
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
    items:
      additionalProperties: false
      properties:
        _url:
          description: Extensions for url
          type: string
        _valueBase64Binary:
          description: Extensions for valueBase64Binary
          type: string
        _valueBoolean:
          description: Extensions for valueBoolean
          type: string
        _valueCanonical:
          description: Extensions for valueCanonical
          type: string
        _valueCode:

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    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:

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

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

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

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{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:

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

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

filter specifies an additional constraint on the data, i.e. date filters are AND'ed, not OR'ed'

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

```

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

```

```

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

```

```

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

```

```

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

```



```

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

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```

properties:
  _currency:
    description: Extensions for currency
    type: string
  _value:
    description: Extensions for value
    type: string
  currency:
    description: ISO 4217 Currency Code
    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  value:
    description: Numerical value (with implicit precision)
    type: string
  type: object
  value0id:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^urn:oid:[0-2](\\.([0-9]{1-9}[0-9]*))+\$
    type: string
  valueParameterDefinition:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _documentation:
      description: Extensions for documentation
      type: string
    _max:
      description: Extensions for max
      type: string
    _min:
      description: Extensions for min
      type: string
    _name:
      description: Extensions for name
      type: string
    _type:
      description: Extensions for type
      type: string
    _use:
      description: Extensions for use
      type: string
    documentation:
      description: A brief discussion of what the parameter is for
and how it is used by the module
      type: string
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    max:
      description: The maximum number of times this element is
permitted to appear in the request or response
      type: string
    min:
      description: The minimum number of times this parameter SHALL
appear in the request or response
      type: string
    name:
      description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
      type: string
    profile:
      description: 'If specified, this indicates a profile that the

```

```

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

```

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

```

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

```

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

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

```
      items:
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      identifier:
        description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
```

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

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

```
      type: string
    type: object
  valueRelatedArtifact:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _citation:
        description: Extensions for citation
        type: string
      _display:
```

```

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

```

**description:** 'A series of data points which are decimal values separated by a single space (character u20). The special values E (error), L (below detection limit) and U (above detection limit) can also be used in place of a decimal value'

**type:** string

**dimensions:**

**description:** 'The number of sample points at each time point. If this value is greater than one, then the dimensions will be interlaced - all the sample points for a point in time will be recorded at once'

**type:** string

**extension:**

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

**items:**

**type:** array

**factor:**

**description:**

A correction factor that is applied to the sampled data points before they are added to the origin

**type:** string

**id:**

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

**type:** string

**lowerLimit:**

**description:** The lower limit of detection of the measured points. This is needed if any of the data points have the value L (lower than detection limit)

**type:** string

**origin:**

**description:** 'The base quantity that a measured value of zero represents. In addition, this provides the units of the entire measurement series'

**type:** string

**period:**

**description:** 'The length of time between sampling times, measured in milliseconds'

**type:** string

**upperLimit:**

**description:** The upper limit of detection of the measured points. This is needed if any of the data points have the value U (higher than detection limit)

**type:** string

**required:**

- origin

**type:** object

**valueSignature:**

**additionalProperties:** false

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

**properties:**

**\_data:**

**description:** Extensions for data

**type:** string

**\_sigFormat:**

**description:** Extensions for sigFormat

**type:** string

**\_targetFormat:**

**description:** Extensions for targetFormat

**type:** string

**\_when:**

**description:** Extensions for when

**type:** string

**data:**

**description:**

The base64 encoding of the Signature content. When signature is not recorded electronically this element would be empty

**type:** string

**extension:**

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

**items:**

**type:** array

**id:**

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

**type:** string

**onBehalfOf:**

```

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

```



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

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

```
items:
  type: array
repeat:
  description: A set of rules that describe when the event is
scheduled
  type: string
type: object
valueTriggerDefinition:
  additionalProperties: false
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _name:
      description: Extensions for name
      type: string
    _timingDate:
      description: Extensions for timingDate
      type: string
    _timingDateTime:
      description: Extensions for timingDateTime
      type: string
    _type:
      description: Extensions for type
      type: string
    condition:
      description: A boolean-valued expression that is evaluated in
the context of the container of the trigger definition and returns whether or not
the trigger fires
      type: string
    data:
      description: 'The triggering data of the event (if this is a
data trigger). If more than one data is requirement is specified, then all the
data requirements must be true'
      items:
        type: array
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      name:
        description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
        type: string
      timingDate:
        description: The timing of the event (if this is a periodic
trigger)
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
        type: string
      timingDateTime:
        description: The timing of the event (if this is a periodic
trigger)
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][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]{12}$
type: string
type: object
type: array
id:
description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
pattern: '^[ \r\n\t\S]+$'
type: string
lastUpdated:
description: When the resource last changed - e.g. when the version
changed
pattern: ^([0-9]([0-9]([0-9][1-9]|1-9|0)|1-9|00)|[1-9]000)-([0-9]|
1[0-2])-([0-9]|1-2|0-9|3[0-1])T([0-9]|0-9|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.\
[0-9]+)?(Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00))$

```

```

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

items:

```

    pattern: ^\S*$
    type: string
  type: array
  security:
    description:
Security labels applied to this resource. These tags connect specific resources to
the overall security policy and infrastructure
    items:
      additionalProperties: false
      properties:
        _code:
          additionalProperties: false
          description: Extensions for code
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

items:

```

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

items:

```

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

items:

```

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

items:

```

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

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```

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

```

```

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

```

```

        pattern: ^\S*$
        type: string
    valueUrl:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^\S*$
        type: string
    valueUsageContext:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueUuid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{
4}-[0-9a-f]{12}$
        type: string
    type: object
    type: array
    id:
        description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
    url:
        description: Source of the definition for the extension code - a
logical name or a URL
        pattern: ^\S*$
        type: string
    valueAddress:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        properties:
            _city:
                additionalProperties: false
                description: Extensions for city
                properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                            type: string
                        type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
            _country:
                additionalProperties: false
                description: Extensions for country
                properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                            type: string
                        type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
            _district:
                additionalProperties: false
                description: Extensions for district
                properties:
                    extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                            type: string
                        type: array

```

```

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

```



```

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

```

```

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

```

```

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

```

```

    type: string
  unit:
    description: A human-readable form of the unit
    pattern: '^[ \r\n\t\S]+$'
    type: string
  value:
    description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
    pattern: ^-?(0|[1-9][0-9]*)?(.[0-9]+)?([eE][+-]?[0-9]+)?$
    type: number
  type: object
  valueAnnotation:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _authorString:
        additionalProperties: false
        description: Extensions for authorString
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          type: object
        _text:
          additionalProperties: false
          description: Extensions for text
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
        _time:
          additionalProperties: false
          description: Extensions for time
          properties:
            extension:
              description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
          type: object
      authorReference:
        additionalProperties: false
        description: The individual responsible for making the
annotation
    properties:
      _display:
        description: Extensions for display
        type: string
      _reference:
        description: Extensions for reference
        type: string
      _type:
        description: Extensions for type

```

```

    type: string
  display:
    description: Plain text narrative that identifies the resource
in addition to the resource reference
    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  identifier:
    description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
    type: string
  reference:
    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
    type: string
  type:
    description: |-
      The expected type of the target of the reference. If both
      Reference.type and Reference.reference are populated and Reference.reference is a
      FHIR URL, both SHALL be consistent.
      The type is the Canonical URL of Resource Definition that is
      the type this reference refers to. References are URLs that are relative to http://
      hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
      fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
      (and can only be used in references in logical models, not resources)
    type: string
  type:
    type: object
  authorString:
    description: The individual responsible for making the
annotation
  pattern: '^[\r\n\t\S]+$'
  type: string
  extension:
    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
    items:
      type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[\r\n\t\S]+$'
    type: string
  text:
    description: The text of the annotation in markdown format
    pattern: '^[\r\n\t\S]+$'
    type: string
  time:
    description: Indicates when this particular annotation was made
    pattern: '^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-([0-9]([1-9]|10-2))(-([0-9]([1-2][0-9]|3[0-1])|T([0-9][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)\.([0-9]+)?|Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$'
    type: string
  type:
    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
contentype:
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])?([1-2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?$
type: string
data:
description: 'The actual data of the attachment - a sequence of
bytes, base64 encoded'
type: string
extension:
description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the

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

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



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

`items:`  
`type:` string  
`type:` array  
`id:`  
`description:` Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces  
`pattern:` '^[\r\n\t\S]+\$'  
`type:` string  
`text:`  
`description:` A human language representation of the concept as seen/selected/uttered by the user who entered the data and/or which represents the intended meaning of the user  
`pattern:` '^[\r\n\t\S]+\$'  
`type:` string  
`type:` object  
`valueCodeableReference:`  
`additionalProperties:` false  
`description:` 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'  
`properties:`  
`concept:`  
`additionalProperties:` false  
`description:` A reference to a concept - e.g. the information is identified by its general class to the degree of precision found in the terminology

`properties:`  
`_text:`  
`description:` Extensions for text  
`type:` string  
`coding:`  
`description:` A reference to a code defined by a terminology system

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

`items:`  
`type:` string  
`type:` array  
`id:`  
`description:` Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces  
`type:` string  
`text:`  
`description:` A human language representation of the concept as seen/selected/uttered by the user who entered the data and/or which represents the intended meaning of the user  
`type:` string  
`type:` object  
`extension:`  
`description:` 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'

`items:`  
`type:` string  
`type:` array  
`id:`  
`description:` Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces  
`pattern:` '^[\r\n\t\S]+\$'  
`type:` string  
`reference:`  
`additionalProperties:` false  
`description:` A reference to a resource the provides exact details about the information being referenced

`properties:`  
`_display:`  
`description:` Extensions for display  
`type:` string  
`_reference:`  
`description:` Extensions for reference

```

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

```

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

```

```

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

```

```

    pattern: '^[ \r\n\t\S]+$'
    type: string
  period:
    additionalProperties: false
    description: Time period when the contact point was/is in use
    properties:
      _end:
        description: Extensions for end
        type: string
      _start:
        description: Extensions for start
        type: string
      end:
        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      start:
        description: The start of the period. The boundary is
inclusive
        type: string
    type: object
  rank:
    description: Specifies a preferred order in which to use a set of
contacts. ContactPoints with lower rank values are more preferred than those with
higher rank values
    pattern: ^[1-9][0-9]*$
    type: number
  system:
    description: Telecommunications form for contact point - what
communications system is required to make use of the contact
    enum:
      - phone
      - fax
      - email
      - pager
      - url
      - sms
      - other
  use:
    description: Identifies the purpose for the contact point
    enum:
      - home
      - work
      - temp
      - old
      - mobile
  value:
    description: 'The actual contact point details, in a form that is
meaningful to the designated communication system (i.e. phone number or email
address)'
    pattern: '^[ \r\n\t\S]+$'
    type: string
  type: object
  valueContributor:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _name:
        additionalProperties: false
        description: Extensions for name
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

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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

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

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

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

```

```

    description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
    pattern: ^-?(0|[1-9][0-9]*)\\.([0-9]+)?([eE][+-]?[0-9]+)?$
    type: number
  type: object
  valueExpression:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _description:
        additionalProperties: false
        description: Extensions for description
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
            type: object
          _expression:
            additionalProperties: false
            description: Extensions for expression
            properties:
              extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                  type: string
                type: array
              id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
                type: object
              _language:
                additionalProperties: false
                description: Extensions for language
                properties:
                  extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                      type: string
                    type: array
                  id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
                    type: object
                  _name:
                    additionalProperties: false
                    description: Extensions for name
                    properties:
                      extension:
                        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                        items:
                          type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        type: string
                        type: object
                    type: object
                type: object
            type: object
          type: object
    type: object
  type: object

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

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    _given:
      description: Extensions for given
      items:
        type: string
      type: array
    _prefix:
      description: Extensions for prefix
      items:
        type: string
      type: array
    _suffix:
      description: Extensions for suffix
      items:
        type: string
      type: array
    _text:
      additionalProperties: false
      description: Extensions for text
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        type: object
    _use:
      additionalProperties: false
      description: Extensions for use
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        type: object
        extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            type: string
          type: array
      family:
        description: The part of a name that links to the genealogy. In
some cultures (e.g. Eritrea) the family name of a son is the first name of his
father
        pattern: '^[\r\n\t\S]+'
        type: string
    given:
      description: Given name
      items:
        type: string
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      pattern: '^[\r\n\t\S]+'
      type: string
    period:
      additionalProperties: false
      description: Indicates the period of time when this name was valid
for the named person
      properties:
        _end:
          description: Extensions for end

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        type: string
    _start:
        description: Extensions for start
        type: string
    end:
        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        type: string
    extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
            type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    start:
        description: The start of the period. The boundary is
inclusive
        type: string
    type: object
    prefix:
        description: 'Part of the name that is acquired as a title due to
academic, legal, employment or nobility status, etc. and that appears at the start
of the name'
        items:
            type: string
        type: array
    suffix:
        description: 'Part of the name that is acquired as a title due to
academic, legal, employment or nobility status, etc. and that appears at the end
of the name'
        items:
            type: string
        type: array
    text:
        description: Specifies the entire name as it should be displayed
e.g. on an application UI. This may be provided instead of or as well as the
specific parts
        pattern: '^[\r\n\t\S]+'
        type: string
    use:
        description: Identifies the purpose for this name
        enum:
            - usual
            - official
            - temp
            - nickname
            - anonymous
            - old
            - maiden
        type: object
    valueId:
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: '[A-Za-z0-9\-\.\-]{1,64}$'
        type: string
    valueIdentifier:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        properties:
            _system:
                additionalProperties: false
                description: Extensions for system
            properties:
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                        type: string
                    type: array
            id:
                description: Unique id for the element within a resource (for

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

```

where the resource is found. The reference may be version specific or not. If the reference is not to a FHIR RESTful server, then it should be assumed to be version specific. Internal fragment references (start with '#') refer to contained resources"

```
    type: string
  type:
    description: |-
      The expected type of the target of the reference. If both
      Reference.type and Reference.reference are populated and Reference.reference is a
      FHIR URL, both SHALL be consistent.
      The type is the Canonical URL of Resource Definition that is
      the type this reference refers to. References are URLs that are relative to http://
      hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
      fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
      (and can only be used in references in logical models, not resources)
    type: string
  type: object
  extension:
    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
    items:
      type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
  period:
    additionalProperties: false
    description: Time period during which identifier is/was valid for
use
    properties:
      _end:
        description: Extensions for end
        type: string
      _start:
        description: Extensions for start
        type: string
      end:
        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      start:
        description: The start of the period. The boundary is
inclusive
        type: string
    type: object
  system:
    description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
    pattern: '^S*$'
    type: string
  type:
    additionalProperties: false
    description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
    properties:
      _text:
        description: Extensions for text
        type: string
      coding:
        description: A reference to a code defined by a terminology
system
        items:
          type: string
```

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

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definition of the extension'
    items:
        type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    type: object
    currency:
        description: ISO 4217 Currency Code
        pattern: ^[^\s]+(\s[^\s]+)*$
        type: string
    extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
            type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
    value:
        description: Numerical value (with implicit precision)
        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+-]?[0-9]+)?$
        type: number
    type: object
    value0id:
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))*+$
        type: string
    valueParameterDefinition:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
        properties:
            _documentation:
                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:

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

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

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

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

```



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

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```

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

```

```

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

```

```

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

```

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

`items:`  
`type:` string  
`type:` array  
`highNumerator:`  
`additionalProperties:` false  
`description:` The value of the high limit numerator  
`properties:`  
`_code:`  
`description:` Extensions for code  
`type:` string  
`_comparator:`  
`description:` Extensions for comparator  
`type:` string  
`_system:`  
`description:` Extensions for system  
`type:` string  
`_unit:`  
`description:` Extensions for unit  
`type:` string  
`_value:`  
`description:` Extensions for value  
`type:` string  
`code:`  
`description:` A computer processable form of the unit in some unit representation system  
`type:` string  
`comparator:`  
`description:` 'How the value should be understood and represented - whether the actual value is greater or less than the stated value due to measurement issues; e.g. if the comparator is < , then the real value is < stated value'

`enum:`  
- <  
- <=  
- '>='  
- >

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

`items:`  
`type:` string  
`type:` array  
`id:`  
`description:` Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces  
`type:` string  
`system:`  
`description:`  
The identification of the system that provides the coded form of the unit  
`type:` string  
`unit:`  
`description:` A human-readable form of the unit  
`type:` string  
`value:`  
`description:` The value of the measured amount. The value includes an implicit precision in the presentation of the value  
`type:` string  
`type:` object

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

`lowNumerator:`  
`additionalProperties:` false  
`description:` The value of the low limit numerator  
`properties:`  
`_code:`  
`description:` Extensions for code  
`type:` string  
`_comparator:`  
`description:` Extensions for comparator  
`type:` string  
`_system:`  
`description:` Extensions for system  
`type:` string

```

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

```

```

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

```

```

        description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
        type: string
    type:
        description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
        type: string
    use:
        description: The purpose of this identifier
        enum:
            - usual
            - official
            - temp
            - secondary
            - old
    value:
        description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
        type: string
    type: object
    reference:
        description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
        pattern: '^[\r\n\t\S]+$'
        type: string
    type:
        description: |-
            The expected type of the target of the reference. If both
            Reference.type and Reference.reference are populated and Reference.reference is a
            FHIR URL, both SHALL be consistent.
            The type is the Canonical URL of Resource Definition that is the
            type this reference refers to. References are URLs that are relative to http://
            hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
            fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
            (and can only be used in references in logical models, not resources)
        pattern: ^S*$
        type: string
    type: object
    valueRelatedArtifact:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
        _citation:
            additionalProperties: false
            description: Extensions for citation
        properties:
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
        _display:
            additionalProperties: false
            description: Extensions for display
        properties:
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
    type: object

```



```

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

```

```

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

```

- citation
- predecessor
- successor
- derived-from
- depends-on
- composed-of

url:  
description: A url for the artifact that can be followed to access  
the actual content  
pattern: ^\S\*\$  
type: string  
type: object  
valueSampledData:  
additionalProperties: false  
description: 'Value of extension - must be one of a constrained set of  
the data types (see [Extensibility](extensibility.html) for a list)'  
properties:  
\_data:  
additionalProperties: false  
description: Extensions for data  
properties:  
extension:  
description: 'May be used to represent additional information  
that is not part of the basic definition of the element. To make the use of  
extensions safe and manageable, there is a strict set of governance applied to  
the definition and use of extensions. Though any implementer can define an  
extension, there is a set of requirements that SHALL be met as part of the  
definition of the extension'  
items:  
type: string  
type: array  
id:  
description: Unique id for the element within a resource (for  
internal references). This may be any string value that does not contain spaces  
type: string  
type: object  
\_dimensions:  
additionalProperties: false  
description: Extensions for dimensions  
properties:  
extension:  
description: 'May be used to represent additional information  
that is not part of the basic definition of the element. To make the use of  
extensions safe and manageable, there is a strict set of governance applied to  
the definition and use of extensions. Though any implementer can define an  
extension, there is a set of requirements that SHALL be met as part of the  
definition of the extension'  
items:  
type: string  
type: array  
id:  
description: Unique id for the element within a resource (for  
internal references). This may be any string value that does not contain spaces  
type: string  
type: object  
\_factor:  
additionalProperties: false  
description: Extensions for factor  
properties:  
extension:  
description: 'May be used to represent additional information  
that is not part of the basic definition of the element. To make the use of  
extensions safe and manageable, there is a strict set of governance applied to  
the definition and use of extensions. Though any implementer can define an  
extension, there is a set of requirements that SHALL be met as part of the  
definition of the extension'  
items:  
type: string  
type: array  
id:  
description: Unique id for the element within a resource (for  
internal references). This may be any string value that does not contain spaces  
type: string  
type: object  
\_lowerLimit:  
additionalProperties: false  
description: Extensions for lowerLimit  
properties:  
extension:  
description: 'May be used to represent additional information  
that is not part of the basic definition of the element. To make the use of  
extensions safe and manageable, there is a strict set of governance applied to  
the definition and use of extensions. Though any implementer can define an  
extension, there is a set of requirements that SHALL be met as part of the  
definition of the extension'  
items:

```

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

```

```

    description: 'The base quantity that a measured value of zero
represents. In addition, this provides the units of the entire measurement
series'

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

```

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

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

```

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

```

```

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

```



```

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

```

```

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

```

```

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

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

```

```

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

```

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

```

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

```

```

        type: string
        reference:
        description: A URI that defines where the expression is
found
        type: string
        type: object
        data:
        description: 'The triggering data of the event (if this is a data
trigger). If more than one data is requirement is specified, then all the data
requirements must be true'
        items:
        type: string
        type: array
        extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
        type: string
        type: array
        id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[\r\n\t\S]+$'
        type: string
        name:
        description: 'A formal name for the event. This may be an absolute
URI that identifies the event formally (e.g. from a trigger registry), or a simple
relative URI that identifies the event in a local context'
        pattern: '^[\r\n\t\S]+$'
        type: string
        timingDate:
        description: The timing of the event (if this is a periodic
trigger)
        pattern: '^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$'
        type: string
        timingDateTime:
        description: The timing of the event (if this is a periodic
trigger)
        pattern: '^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))))?)?)?$'
        type: string
        timingReference:
        additionalProperties: false
        description: The timing of the event (if this is a periodic
trigger)
        properties:
        _display:
        description: Extensions for display
        type: string
        _reference:
        description: Extensions for reference
        type: string
        _type:
        description: Extensions for type
        type: string
        display:
        description: Plain text narrative that identifies the resource
in addition to the resource reference
        type: string
        extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
        type: string
        type: array
        id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
        identifier:
        description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a

```

business concept that would be expected to be exposed as a FHIR instance, and that instance would need to be of a FHIR resource type allowed by the reference'

```
    type: string
    reference:
      description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
      type: string
    type:
      description: |-
        The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
        The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
      type: string
    type: object
    timingTiming:
      additionalProperties: false
      description: The timing of the event (if this is a periodic
trigger)
    properties:
      _event:
        description: Extensions for event
      items:
        type: string
        type: array
      code:
        description: 'A code for the timing schedule (or just text in
code.text). Some codes such as BID are ubiquitous, but many institutions define
their own additional codes. If a code is provided, the code is understood to be a
complete statement of whatever is specified in the structured timing data, and
either the code or the data may be used to interpret the Timing, with the
exception that .repeat.bounds still applies over the code (and is not contained in
the code)'
        type: string
      event:
        description: Identifies specific times when the event
occurs
        items:
          type: string
          type: array
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        modifierExtension:
          description: |-
            May be used to represent additional information that is not
part of the basic definition of the element and that modifies the understanding of
the element in which it is contained and/or the understanding of the containing
element's descendants. Usually modifier elements provide negation or qualification.
To make the use of extensions safe and manageable, there is a strict set of
governance applied to the definition and use of extensions. Though any implementer
can define an extension, there is a set of requirements that SHALL be met as part
of the definition of the extension. Applications processing a resource are required
to check for modifier extensions.
            Modifier extensions SHALL NOT change the meaning of any
elements on Resource or DomainResource (including cannot change the meaning of
modifierExtension itself)
          items:
            type: string
            type: array
          repeat:
            description: A set of rules that describe when the event is
scheduled
            type: string
            type: object
            type:
```

```

    description: The type of triggering event
    enum:
      - named-event
      - periodic
      - data-changed
      - data-added
      - data-modified
      - data-removed
      - data-accessed
      - data-access-ended
    type: object
    valueUnsignedInt:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^[0]([1-9][0-9]*)$
      type: number
    valueUri:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^\S*$
      type: string
    valueUrl:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^\S*$
      type: string
    valueUsageContext:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        code:
          additionalProperties: false
          description: A code that identifies the type of context being
specified by this usage context
          properties:
            _code:
              description: Extensions for code
              type: string
            _display:
              description: Extensions for display
              type: string
            _system:
              description: Extensions for system
              type: string
            _userSelected:
              description: Extensions for userSelected
              type: string
            _version:
              description: Extensions for version
              type: string
          code:
            description: A symbol in syntax defined by the system. The
symbol may be a predefined code or an expression in a syntax defined by the coding
system (e.g. post-coordination)
            type: string
          display:
            description: 'A representation of the meaning of the code in
the system, following the rules of the system'
            type: string
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          system:
            description:
The identification of the code system that defines the meaning of the symbol in the
code
            type: string
          userSelected:
            description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
            type: string
          version:
            description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the

```



```

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

```

```

- '>='
- >
extension:
  description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
  items:
    type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  system:
    description:
The identification of the system that provides the coded form of the unit
    type: string
  unit:
    description: A human-readable form of the unit
    type: string
  value:
    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
    type: string
  type: object
  valueRange:
    additionalProperties: false
    description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
  properties:
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: string
        type: array
      high:
        description: The high limit. The boundary is inclusive
        type: string
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      low:
        description: The low limit. The boundary is inclusive
        type: string
      type: object
    valueReference:
      additionalProperties: false
      description: A value that defines the context specified in this
context of use. The interpretation of the value is defined by the code
    properties:
      _display:
        description: Extensions for display
        type: string
      _reference:
        description: Extensions for reference
        type: string
      _type:
        description: Extensions for type
        type: string
    display:
      description: Plain text narrative that identifies the resource
in addition to the resource reference
      type: string
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string

```

```

    identifier:
      description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
      type: string
    reference:
      description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
      type: string
    type:
      description: |-
        The expected type of the target of the reference. If both
        Reference.type and Reference.reference are populated and Reference.reference is a
        FHIR URL, both SHALL be consistent.
        The type is the Canonical URL of Resource Definition that is
        the type this reference refers to. References are URLs that are relative to http://
        hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
        fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
        (and can only be used in references in logical models, not resources)
      type: string
    type: object
    required:
      - code
    type: object
    valueUuid:
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
      type: string
    type: object
    type: array
    x-ngsi:
      type: Property
    name:
      description: 'Name used for the account when displaying it to humans in
reports, etc'
      pattern: '^[ \r\n\t\S]+$'
      type: string
    x-ngsi:
      type: Property
    owner:
      additionalProperties: false
      description: 'Indicates the service area, hospital, department, etc. with
responsibility for managing the Account'
      properties:
        _display:
          additionalProperties: false
          description: Extensions for display
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              additionalProperties: false
              properties:
                _url:
                  description: Extensions for url
                  type: string
                _valueBase64Binary:
                  description: Extensions for valueBase64Binary
                  type: string
                _valueBoolean:
                  description: Extensions for valueBoolean
                  type: string
                _valueCanonical:
                  description: Extensions for valueCanonical
                  type: string
                _valueCode:
                  description: Extensions for valueCode
                  type: string
                _valueDate:

```

```

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

```

```

        pattern: ^(\s*([0-9a-zA-Z\+/=]){4}\s*)+$
        type: string
    valueBoolean:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

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

```

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

```

        type: string
    valueCodeableReference:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueCoding:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueContactDetail:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueContactPoint:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueContributor:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueCount:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueDataRequirement:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueDate:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

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

```

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

```

        type: string

```

```

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

```

```

list)'
    type: string
    valueRatio:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    type: string
    valueRatioRange:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    type: string
    valueReference:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    type: string
    valueRelatedArtifact:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    type: string
    valueSampledData:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    type: string
    valueSignature:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    type: string
    valueString:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    pattern: '^[ \r\n\t\S]+$'
    type: string
    valueTime:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

    type: string
    valueTriggerDefinition:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    type: string
    valueUnsignedInt:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

    pattern: '^S*$'
    type: string
    valueUrl:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    pattern: '^S*$'
    type: string
    valueUsageContext:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    type: string
    valueUuid:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

    pattern: '^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$'
    type: string
type: object

```

```

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

```



```

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

```

```

        type: string
        valueCount:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDataRequirement:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDate:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]))?)?$
```

```

        type: string
        valueDateTime:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.([0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
```

```

        type: string
        valueDecimal:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^~?(0|[1-9][0-9]*)\.([0-9]+)?([eE][+-]?[0-9]+)?$
```

```

        type: number
        valueDistance:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDosage:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDuration:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueExpression:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueHumanName:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueId:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^[A-Za-z0-9\-\.\.]{1,64}$
```

```

        type: string
        valueIdentifier:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueInstant:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]))T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.([0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))$
```

```

        type: string
        valueInteger:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^~?([0]|([1-9][0-9]*))$
```

```

        type: number
        valueMarkdown:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^[ \r\n\t\S]+$'
        type: string
    valueMoney:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueOid:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

        type: string
    valuePeriod:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valuePositiveInt:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^[1-9][0-9]*$
        type: number
    valueQuantity:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueRange:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueRatio:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueRatioRange:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueReference:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueRelatedArtifact:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueSampledData:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueSignature:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
    valueString:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^[ \r\n\t\S]+$'
        type: string
    valueTime:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

        type: string
        valueTriggerDefinition:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueUnsignedInt:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

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

```

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

```

        type: string
        valueUuid:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
        type: string
        type: object
        type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      pattern: '^[ \r\n\t\S]+$'
      type: string
    type: object
    _type:
      additionalProperties: false
      description: Extensions for type
      properties:
        extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
```

```

    items:
      additionalProperties: false
      properties:
        _url:
          description: Extensions for url
          type: string
        _valueBase64Binary:
          description: Extensions for valueBase64Binary
          type: string
        _valueBoolean:
          description: Extensions for valueBoolean
          type: string
        _valueCanonical:
          description: Extensions for valueCanonical
          type: string
        _valueCode:
          description: Extensions for valueCode
          type: string
        _valueDate:
          description: Extensions for valueDate
          type: string
        _valueDateTime:
          description: Extensions for valueDateTime
          type: string
        _valueDecimal:
          description: Extensions for valueDecimal
          type: string
        _valueId:
          description: Extensions for valueId
          type: string
        _valueInstant:

```

```

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

```

```

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

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

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

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

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

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

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

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

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

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

```

```

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)
      type: array
    patientInstruction:
      description: Instructions in terms that are understood by the
patient or consumer
      type: string
    route:
      description: How drug should enter body
      type: string
    sequence:
      description: Indicates the order in which the dosage
instructions should be applied or interpreted
      type: string
    site:
      description: Body site to administer to
      type: string
    text:
      description: Free text dosage instructions e.g. SIG
      type: string
    timing:
      description: When medication should be administered
      type: string
    type: object
    valueDuration:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _code:
        description: Extensions for code
        type: string
      _comparator:
        description: Extensions for comparator
        type: string
      _system:
        description: Extensions for system
        type: string
      _unit:
        description: Extensions for unit
        type: string
      _value:
        description: Extensions for value
        type: string
    code:
      description: A computer processable form of the unit in some
unit representation system
      type: string
    comparator:
      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
      enum:
        - <
        - <=

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

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

```

```

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

```

```

    pattern: ^[0]|([1-9][0-9]*)$
    type: number
  valueUri:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\S*$
    type: string
  valueUrl:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\S*$
    type: string
  valueUsageContext:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      code:
        description: A code that identifies the type of context being
specified by this usage context
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        valueCodeableConcept:
          description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
          type: string
        valueQuantity:
          description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
          type: string
        valueRange:
          description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
          type: string
        valueReference:
          description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
          type: string
        required:
          - code
        type: object
      valueUuid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$
        type: string
    type: object
  type: array
  id:
    description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
  identifier:
    additionalProperties: false
    description: 'An identifier for the target resource. This is used when
there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
    properties:
      _system:
        additionalProperties: false
        description: Extensions for system
        properties:
          extension:

```

```

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

```

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

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

```
type: string
type:
  description: |-
    The expected type of the target of the reference. If both
    Reference.type and Reference.reference are populated and Reference.reference is a
    FHIR URL, both SHALL be consistent.
    The type is the Canonical URL of Resource Definition that is
    the type this reference refers to. References are URLs that are relative to http://
    hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
    fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
    (and can only be used in references in logical models, not resources)
```

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

```
items:
  additionalProperties: false
  properties:
    _url:
      description: Extensions for url
      type: string
    _valueBase64Binary:
      description: Extensions for valueBase64Binary
      type: string
    _valueBoolean:
      description: Extensions for valueBoolean
      type: string
    _valueCanonical:
      description: Extensions for valueCanonical
      type: string
    _valueCode:
      description: Extensions for valueCode
      type: string
    _valueDate:
      description: Extensions for valueDate
      type: string
    _valueDateTime:
      description: Extensions for valueDateTime
      type: string
    _valueDecimal:
      description: Extensions for valueDecimal
      type: string
    _valueId:
      description: Extensions for valueId
      type: string
    _valueInstant:
      description: Extensions for valueInstant
      type: string
    _valueInteger:
      description: Extensions for valueInteger
      type: string
    _valueMarkdown:
      description: Extensions for valueMarkdown
      type: string
    _valueOid:
      description: Extensions for valueOid
      type: string
    _valuePositiveInt:
      description: Extensions for valuePositiveInt
      type: string
    _valueString:
      description: Extensions for valueString
      type: string
    _valueTime:
      description: Extensions for valueTime
```

```

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

```

```

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

```

```

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

```



```

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

```

```

        type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    start:
        description: The start of the period. The boundary is
inclusive
        type: string
        type: object
    system:
        description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
        pattern: ^\S*$
        type: string
    type:
        additionalProperties: false
        description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
        properties:
            _text:
                description: Extensions for text
                type: string
            coding:
                description: A reference to a code defined by a terminology
system
            items:
                type: string
                type: array
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
                type: string
                type: array
        id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
        text:
            description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
            type: string
        type: object
    use:
        description: The purpose of this identifier
        enum:
            - usual
            - official
            - temp
            - secondary
            - old
        value:
            description: The portion of the identifier typically relevant to the
user and which is unique within the context of the system
            pattern: '^[ \r\n\t\S]+$'
            type: string
        type: object
    reference:
        description: "A reference to a location at which the other resource is
found. The reference may be a relative reference, in which case it is relative to
the service base URL, or an absolute URL that resolves to the location where the
resource is found. The reference may be version specific or not. If the reference
is not to a FHIR RESTful server, then it should be assumed to be version specific.
Internal fragment references (start with '#') refer to contained resources"
        pattern: '^[ \r\n\t\S]+$'
        type: string
    type:
        description: |-
            The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
            The type is the Canonical URL of Resource Definition that is the type
this reference refers to. References are URLs that are relative to http://hl7.org/
fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/fhir/
StructureDefinition/Patient. Absolute URLs are only allowed for logical models (and
can only be used in references in logical models, not resources)
        pattern: ^\S*$
        type: string
    type: object

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

```

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definition of the extension'
  items:
    type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  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

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

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

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        pattern: ^[1-9][0-9]*$
        type: number
        valueQuantity:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
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        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)'
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        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)'
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        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)'
```

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        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)'
```

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        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)'
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        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)'
```

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        type: string
        valueSignature:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

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        type: string
        valueString:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

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        pattern: '^[ \r\n\t\S]+$'
        type: string
        valueTime:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

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

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    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*$

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        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

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

```

```

        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
        valueRelatedArtifact:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
        valueSampledData:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
        valueSignature:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
        valueString:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: '^[ \r\n\t\S]+$'
        type: string
        valueTime:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: '^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[
[0-9]+)?$'
        type: string
        valueTiming:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
        valueTriggerDefinition:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
        valueUnsignedInt:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: '^[0]|([1-9][0-9]*)$'
        type: number
        valueUri:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: '^S*$'
        type: string
        valueUrl:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: '^S*$'
        type: string
        valueUsageContext:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
        valueUuid:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: '^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$'
        type: string
        type: object
        type: array
        id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
        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)'
    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|1[2][0-9]|3[0-1]))T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))$
    type: string
    valueInteger:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^-?([0]|([1-9][0-9]*))$
    type: number
    valueMarkdown:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^[ \r\n\t\S]+$'
    type: string
    valueMoney:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueOid:
    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
    type: string

```

```

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

```

```

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

```



```

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

```

```

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

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

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

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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

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        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

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

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

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    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: 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
          type: string
        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
          type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
          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
        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
          type: string
        profile:
          description: 'The profile of the required data, specified as
the uri of the profile definition'
          items:
            type: array
          type: string
        sort:
          description: Specifies the order of the results to be
returned
          items:
            type: array
          type: string
        subjectCodeableConcept:
          description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
          type: string
        subjectReference:
          description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
          type: string
        type:
          description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
          type: string
        valueDate:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

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

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

where the resource is found. The reference may be version specific or not. If the reference is not to a FHIR RESTful server, then it should be assumed to be version specific. Internal fragment references (start with '#') refer to contained resources"

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

```

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

```

```

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

```



```

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

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

```

```

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

```

```

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

```

```

    type: string
  type: object
  assigner:
    additionalProperties: false
    description: Organization that issued/manages the identifier
    properties:
      _display:
        description: Extensions for display
        type: string
      _reference:
        description: Extensions for reference
        type: string
      _type:
        description: Extensions for type
        type: string
    display:
      description:

```

Plain text narrative that identifies the resource in addition to the resource reference

```

    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  identifier:
    description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
    type: string
  reference:
    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
    type: string
  type:
    description: |-
      The expected type of the target of the reference. If both
      Reference.type and Reference.reference are populated and Reference.reference is a
      FHIR URL, both SHALL be consistent.
      The type is the Canonical URL of Resource Definition that is
      the type this reference refers to. References are URLs that are relative to http://
      hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
      fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
      (and can only be used in references in logical models, not resources)
    type: string
  type: object
  extension:
    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
  items:
    additionalProperties: false
    properties:
      _url:
        description: Extensions for url
        type: string
      _valueBase64Binary:
        description: Extensions for valueBase64Binary
        type: string
      _valueBoolean:
        description: Extensions for valueBoolean
        type: string
      _valueCanonical:
        description: Extensions for valueCanonical

```

```

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

```

```

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

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

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

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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

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

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    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)'

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        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

```

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

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

```

```

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

```

```

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

```



```

        type: string
        valueContributor:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueCount:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDataRequirement:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDate:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|1[2][0-9]|3[0-1]))?)?$
```

```

        type: string
        valueDateTime:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|1[2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))))?)?$
```

```

        type: string
        valueDecimal:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^-?(0|[1-9][0-9]*)\.([0-9]+)?([eE][+-]?[0-9]+)?$
```

```

        type: number
        valueDistance:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDosage:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueDuration:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueExpression:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueHumanName:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueId:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^[A-Za-z0-9\-\.\.]{1,64}$
```

```

        type: string
        valueIdentifier:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueInstant:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|1[2][0-9]|3[0-1]))T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))$
```

```

        type: string
        valueInteger:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: ^-?([0]|([1-9][0-9]*))$
```

```

        type: number
        valueMarkdown:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^[ \r\n\t\S]+$'
        type: string
        valueMoney:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueOid:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

        type: string
        valuePeriod:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valuePositiveInt:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^[1-9][0-9]*$'
        type: number
        valueQuantity:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueRange:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueRatio:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueRatioRange:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueReference:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueRelatedArtifact:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueSampledData:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueSignature:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueString:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^[ \r\n\t\S]+$'
        type: string
        valueTime:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[
[0-9]+)?$'
```

```

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

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```

    _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:

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```

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

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

```

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

```

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

```

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

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

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

```

```

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

```



```

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

```

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

```

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

```

```

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

```

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
  items:
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  identifier:
    description: 'An identifier for the target resource. This is
used when there is no way to reference the other resource directly, either because
the entity it represents is not available through a FHIR server, or because there
is no way for the author of the resource to convert a known identifier to an
actual location. There is no requirement that a Reference.identifier point to
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
    type: string
  reference:
    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
    type: string
  type:
    description: |-
      The expected type of the target of the reference. If both
      Reference.type and Reference.reference are populated and Reference.reference is a
      FHIR URL, both SHALL be consistent.
      The type is the Canonical URL of Resource Definition that is
      the type this reference refers to. References are URLs that are relative to http://
      hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
      fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
      (and can only be used in references in logical models, not resources)
    type: string
  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:

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        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

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

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

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data trigger). If more than one data is requirement is specified, then all the data requirements must be true'

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

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

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

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

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set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^([^\s]+(\s([^\s]+))*)*$
    type: string
    valueCodeableConcept:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueCodeableReference:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueCoding:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueContactDetail:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueContactPoint:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueContributor:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueCount:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueDataRequirement:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueDate:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^([0-9]([0-9]([0-9]([0-9]|1-9)|[1-9]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]([0-9]|1-9)|[1-9]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]([0-9]|1-9)|[1-9]0)|[1-9]00)|[1-9]000)-

```

```

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

```

```

    valueUnsignedInt:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^[0]([1-9][0-9]*)$
      type: number
    valueUri:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^\S*$
      type: string
    valueUrl:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^\S*$
      type: string
    valueUsageContext:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      type: string
    valueUuid:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$
      type: string
  type: object
type: array
id:
  description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
  pattern: '^[ \r\n\t\S]+$'
  type: string
identifier:
  additionalProperties: false
  description: 'An identifier for the target resource. This is used when
there is no way to reference the other resource directly, either because the
entity it represents is not available through a FHIR server, or because there is
no way for the author of the resource to convert a known identifier to an actual
location. There is no requirement that a Reference.identifier point to something
that is actually exposed as a FHIR instance, but it SHALL point to a business
concept that would be expected to be exposed as a FHIR instance, and that instance
would need to be of a FHIR resource type allowed by the reference'
  properties:
    _system:
      additionalProperties: false
      description: Extensions for system
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        type: object
      _use:
        additionalProperties: false
        description: Extensions for use
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          type: object
        _value:
          additionalProperties: false
          description: Extensions for value
          properties:
            extension:

```

```

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

```

```

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

```

- secondary
- old

**value:**

**description:** The portion of the identifier typically relevant to the user and which is unique within the context of the system

**pattern:** '^[\r\n\t\S]+\$'

**type:** string

**type:** object

**reference:**

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

**pattern:** '^[\r\n\t\S]+\$'

**type:** string

**type:**

**description:** |-

**The expected type of the target of the reference. If both Reference.type and Reference.reference are populated and Reference.reference is a FHIR URL, both SHALL be consistent.**

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

**pattern:** '^S\*\$'

**type:** string

**type:** object

**type:** array

**x-ngsi:**

**type:** Property

**text:**

**additionalProperties:** false

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

**properties:**

**\_status:**

**additionalProperties:** false

**description:** Extensions for status

**properties:**

**extension:**

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

**items:**

**additionalProperties:** false

**properties:**

**\_url:**

**description:** Extensions for url

**type:** string

**\_valueBase64Binary:**

**description:** Extensions for valueBase64Binary

**type:** string

**\_valueBoolean:**

**description:** Extensions for valueBoolean

**type:** string

**\_valueCanonical:**

**description:** Extensions for valueCanonical

**type:** string

**\_valueCode:**

**description:** Extensions for valueCode

**type:** string

**\_valueDate:**

**description:** Extensions for valueDate

**type:** string

**\_valueDateTime:**

**description:** Extensions for valueDateTime

**type:** string

**\_valueDecimal:**

**description:** Extensions for valueDecimal

**type:** string

**\_valueId:**

**description:** Extensions for valueId

**type:** string

**\_valueInstant:**

**description:** Extensions for valueInstant

```

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

```

```

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

```



```

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

```

```

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

```

        type: string
        valueRelatedArtifact:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueSampledData:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueSignature:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueString:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^[ \r\n\t\S]+$'
        type: string
        valueTime:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[
[0-9]+)?$'
```

```

        type: string
        valueTiming:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueTriggerDefinition:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueUnsignedInt:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

        pattern: '^S*$'
        type: string
        valueUrl:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^S*$'
        type: string
        valueUsageContext:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        type: string
        valueUuid:
        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

        pattern: '^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$'
```

```

        type: string
        type: object
        type: array
        id:
        description: 'Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
pattern: '^[ \r\n\t\S]+$'
        type: string
        type: object
        div:
        description: 'The actual narrative content, a stripped down version of
XHTML'
```

```

        extension:
        description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
```

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

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

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

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

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

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

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

```

    items:
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    value:
      description: Numerical value (with implicit precision)
      type: string
    type: object
  valueOid:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^urn:oid:[0-2](\\.([0-9]{1-3}))*+$
    type: string
  valueParameterDefinition:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _documentation:
        description: Extensions for documentation
        type: string
      _max:
        description: Extensions for max
        type: string
      _min:
        description: Extensions for min
        type: string
      _name:
        description: Extensions for name
        type: string
      _type:
        description: Extensions for type
        type: string
      _use:
        description: Extensions for use
        type: string
      documentation:
        description: A brief discussion of what the parameter is for
and how it is used by the module
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      max:
        description: The maximum number of times this element is
permitted to appear in the request or response
        type: string
      min:
        description: The minimum number of times this parameter SHALL
appear in the request or response
        type: string
      name:
        description: The name of the parameter used to allow access to
the value of the parameter in evaluation contexts
        type: string
      profile:
        description: 'If specified, this indicates a profile that the
input data must conform to, or that the output data will conform to'
        type: string
      type:
        description: The type of the parameter
        type: string
      use:
        description: Whether the parameter is input or output for the
module
        type: string
    type: object
  valuePeriod:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained

```

```

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

```

The identification of the system that provides the coded form of the unit

```

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

```

```

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

```



A bibliographic citation for the related artifact. This text SHOULD be formatted according to an accepted citation format

type: string  
display:  
description: 'A brief description of the document or knowledge resource being referenced, suitable for display to a consumer'

type: string  
document:  
description: 'The document being referenced, represented as an attachment. This is exclusive with the resource element'

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

items:  
type: array  
id:  
description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces  
type: string

label:  
description: 'A short label that can be used to reference the citation from elsewhere in the containing artifact, such as a footnote index'

type: string  
resource:  
description: 'The related resource, such as a library, value set, profile, or other knowledge resource'

type: string  
type:  
description: The type of relationship to the related artifact

enum:  
- documentation  
- justification  
- citation  
- predecessor  
- successor  
- derived-from  
- depends-on  
- composed-of

url:  
description: A url for the artifact that can be followed to access the actual content

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

properties:  
\_data:  
description: Extensions for data  
type: string  
\_dimensions:  
description: Extensions for dimensions  
type: string  
\_factor:  
description: Extensions for factor  
type: string  
\_lowerLimit:  
description: Extensions for lowerLimit  
type: string  
\_period:  
description: Extensions for period  
type: string  
\_upperLimit:  
description: Extensions for upperLimit  
type: string  
data:  
description: 'A series of data points which are decimal values separated by a single space (character u20). The special values E (error), L (below detection limit) and U (above detection limit) can also be used in place of a decimal value'

type: string  
dimensions:  
description: 'The number of sample points at each time point. If this value is greater than one, then the dimensions will be interlaced - all the sample points for a point in time will be recorded at once'

type: string  
extension:  
description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of

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

```
  items:
    type: array
  factor:
    description:
```

A correction factor that is applied to the sampled data points before they are added to the origin

```
    type: string
  id:
```

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

```
    type: string
  lowerLimit:
```

description: The lower limit of detection of the measured points. This is needed if any of the data points have the value L (lower than detection limit)

```
    type: string
  origin:
```

description: 'The base quantity that a measured value of zero represents. In addition, this provides the units of the entire measurement series'

```
    type: string
  period:
```

description: 'The length of time between sampling times, measured in milliseconds'

```
    type: string
  upperLimit:
```

description: The upper limit of detection of the measured points. This is needed if any of the data points have the value U (higher than detection limit)

```
    type: string
  required:
```

```
    - origin
```

```
  type: object
```

```
  valueSignature:
```

```
    additionalProperties: false
```

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

```
  properties:
```

```
    _data:
```

```
      description: Extensions for data
```

```
      type: string
```

```
    _sigFormat:
```

```
      description: Extensions for sigFormat
```

```
      type: string
```

```
    _targetFormat:
```

```
      description: Extensions for targetFormat
```

```
      type: string
```

```
    _when:
```

```
      description: Extensions for when
```

```
      type: string
```

```
  data:
```

```
    description:
```

The base64 encoding of the Signature content. When signature is not recorded electronically this element would be empty

```
    type: string
```

```
  extension:
```

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

```
    items:
```

```
      type: array
```

```
  id:
```

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

```
    type: string
  onBehalfOf:
```

description: A reference to an application-usable description of the identity that is represented by the signature

```
    type: string
```

```
  sigFormat:
```

description: 'A mime type that indicates the technical format of the signature. Important mime types are application/signature+xml for X ML DigSig, application/jose for JWS, and image/\* for a graphical image of a signature, etc'

```
    type: string
```

```
  targetFormat:
```

```
    description:
```

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

```

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

```

```

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

```

```

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

```

## Esempi di payload

### Account NGSI-v2 valori-chiave Esempio

Ecco un esempio di un conto in formato JSON-LD come valori-chiave. Questo è compatibile con NGSI-v2 quando si usa `options=keyValues` e restituisce i dati di contesto di una singola entità.

#### 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"
      }
    ]
  }
}

```

### Conto NGSI-v2 normalizzato Esempio

Ecco un esempio di un Conto in formato JSON-LD normalizzato. Questo è compatibile con NGSI-v2 quando non si utilizzano le opzioni e restituisce i dati di contesto di una singola entità.

#### 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"
          }
        ]
      }
    }
  }
}

```

#### Valori chiave NGSI-LD del conto Esempio

Ecco un esempio di un conto in formato JSON-LD come valori-chiave. Questo è compatibile con NGSI-LD quando si usa `options=keyValues` e restituisce i dati di contesto di una singola entità.

#### 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"
]
}

```

### Conto NGSI-LD normalizzato Esempio

Ecco un esempio di un Conto in formato JSON-LD normalizzato. Questo è compatibile con NGSI-LD quando non si utilizzano opzioni e restituisce i dati di contesto di una singola entità.

#### show/hide example

```

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

```

```

        "display": "patient billing account"
      }
    ],
    "text": "patient"
  },
  "name": {
    "type": "Property",
    "value": "HACC Funded Billing for Peter James Chalmers"
  },
  "subject": {
    "type": "Property",
    "value": [
      {
        "reference": "Patient/example",
        "display": "Peter James Chalmers"
      }
    ]
  },
  "servicePeriod": {
    "type": "Property",
    "value": {
      "start": "2016-01-01",
      "end": "2016-06-30"
    }
  },
  "coverage": {
    "type": "Property",
    "value": [
      {
        "coverage": {
          "reference": "Coverage/7546D"
        },
        "priority": 1
      }
    ]
  },
  "owner": {
    "type": "Property",
    "value": {
      "reference": "Organization/hl7"
    }
  },
  "description": {
    "type": "Property",
    "value": "Hospital charges"
  },
  "meta": {
    "type": "Property",
    "value": {
      "tag": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/v3-ActReason",
          "code": "HTEST",
          "display": "test health data"
        }
      ]
    }
  },
  "@context": [
    "https://raw.githubusercontent.com/smart-data-models/dataModel.HL7/master/context.jsonld"
  ]
}

```

Vedere [FAQ\\_10](#) per ottenere una risposta su come gestire le unità di grandezza.