



エンティティアカウント

[オープン・ライセンス](#)

[文書は自動的に生成される](#)

グローバルな説明**特定の目的のために発生した価値を追跡するための財務ツール。ヘルスケア分野では、患者やコストセンターなどの料金を追跡するために使用される。

バージョン: 0.0.1

プロパティのリスト

[*] 属性に型がない場合は、複数の型があるか、異なるフォーマット/パターンがある可能性があるためです。

- `_description[object]`: 記述の拡張

- `extension[array]`: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- `_implicitRules[object]`: `implicitRules`の拡張機能

- `extension[array]`: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- `_language[object]`: 言語の拡張

- `extension[array]`: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- `_name[object]`: 名前の拡張子

- `extension[array]`: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- `_status[object]`: ステータスの延長
 - `extension[array]`: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。
- `address[object]`: 郵送先住所 . Model: <https://schema.org/address>
 - `addressCountry[string]`: 国。例えば、スペイン . Model: <https://schema.org/addressCountry>
 - `addressLocality[string]`: 番地がある地域と、その地域に含まれる地域 . Model: <https://schema.org/addressLocality>
 - `addressRegion[string]`: その地域がある地域、またその国がある地域 . Model: <https://schema.org/addressRegion>
 - `district[string]`: 地区とは行政区画の一種で、国によっては地方自治体によって管理されている。
 - `postOfficeBoxNumber[string]`: 私書箱の住所のための私書箱番号。例: 03578 . Model: <https://schema.org/postOfficeBoxNumber>
 - `postalCode[string]`: 郵便番号。例: 24004 . Model: <https://schema.org/postalCode>
 - `streetAddress[string]`: 番地 . Model: <https://schema.org/streetAddress>
- `alternateName[string]`: この項目の別名
- `areaServed[string]`: サービスまたは提供品が提供される地理的地域 . Model: <https://schema.org/Text>
- `contained[array]`: これらのリソースは、それを含むリソースとは別に独立した存在を持っていない - 独立して識別することはできないし、独立したトランザクションスコープも持つことができない
- `coverage[array]`: この口座の支払いに責任を持つ当事者と、その支払いはどのような順序で行われるべきか。
- `dataProvider[string]`: ハーモナイズされたデータ・エンティティの提供者を識別する一連の文字。
- `dateCreated[date-time]`: エンティティの作成タイムスタンプ。これは通常、ストレージプラットフォームによって割り当てられます。
- `dateModified[date-time]`: エンティティの最終変更のタイムスタンプ。これは通常、ストレージプラットフォームによって割り当てられる。
- `description[string]`: アカウントが追跡するものとその使用方法に関する追加情報を提供する。
- `extension[array]`: リソースの基本定義に含まれない追加情報を表すために使用されることがある。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用には厳密なガバナンスが適用される。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。
- `guarantor[array]`: 他の支払い方法が不足した場合、口座の残高を調整する責任者
- `hl7type[object]`: 報告および検索の目的で口座を分類する。
 - `_text[object]`: テキストの拡張
 - `coding[array]`: 用語体系によって定義されたコードへの参照。
 - `extension[array]`: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。
 - `id[string]`: リソース内の要素の一意な ID (内部参照用)。これはスペースを含まない任意の文字列値でよい。
- `id[*]`: エンティティの一意識別子
- `identifier[array]`: アカウントを参照するために使用される一意の識別子。人間が使用することを意図しているかもしれないし、そうでないかもしれない (例: クレジットカード番号)
- `implicitRules[string]`: リソースが構築されたときに従ったルールのセットへの参照であり、コンテンツを処理するときに理解しなければならない。多くの場合、これは他のプロファイルなどと

ともに特別な規則を定義した実装ガイドへの参照である。

- language[string]: リソースが書かれているベース言語

- location[*]: アイテムへの Geojson 参照。Point、LineString、Polygon、MultiPoint、MultiLineString、MultiPolygon のいずれか。

- meta[object]: リソースに関するメタデータ。これはインフラストラクチャによって維持されるコンテンツである。コンテンツの変更は、リソースのバージョン変更と常に関連するとは限りません。

- _lastUpdated[object]: lastUpdated の拡張機能

- _source[object]: ソースの拡張

- _versionId[object]: versionId の拡張

- extension[array]: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- id[string]: リソース内の要素の一意な ID (内部参照用)。これはスペースを含まない任意の文字列値でよい。

- lastUpdated[string]: リソースが最後に変更されたのはいつなのか。

- profile[array]: このリソースが準拠すると主張するプロファイル ([[StructureDefinition]] リソースへの参照) のリスト。URLは[[StructureDefinition.url]]への参照です。]

- security[array]: このリソースに適用されるセキュリティ・ラベル。これらのタグは、特定のリソースを全体的なセキュリティ・ポリシーとインフラストラクチャに接続する。

- source[string]: リソースのソースシステムを識別するuri。これは、リソースの情報源を追跡または区別するために使用できる最小限の[[Provenance]]情報を提供する。ソースは別のFHIRサーバ、ドキュメント、メッセージ、データベースなどを特定することができる。

- tag[array]: このリソースに適用されるタグ。タグはリソースを識別し、プロセスとワークフローに関連付けるために使用されることを意図しており、アプリケーションはリソースの意味を解釈する際にタグを考慮する必要はない。

- modifierExtension[array]: リソースの基本的な定義の一部ではなく、それを含む要素の理解、および/または、それを含む要素の子孫の理解を修正する追加情報を表すために使用することができる。通常、修飾子要素は否定または修飾を提供する。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用には厳格なガバナンスが適用される。どのような実装者でも拡張を定義することが許されているが、拡張の定義の一部として満たすべき一連の要件がある。リソースを処理するアプリケーションは、修飾子の拡張をチェックすることが要求される。

修飾子拡張はResourceまたはDomainResourceの要素の意味を変更してはならない(SHALL NOT) (modifierExtension自体の意味を変更できないことを含む)。

- name[string]: レポートなどで人間に表示する際に使用するアカウント名

- owner[object]: アカウントを管理する責任を持つサービスエリア、病院、部門などを示す。

- _display[object]: ディスプレイ用エクステンション

- _reference[object]: 参考のための拡張機能

- _type[object]: 型の拡張

- display[string]: リソース参照に加え、リソースを識別するプレーンテキストの説明文。

- extension[array]: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- id[string]: リソース内の要素の一意な ID (内部参照用)。これはスペースを含まない任意の文字列値でよい。

- identifier[object]: 対象リソースの識別子。これは、相手のリソースを直接参照する方法がない場合に使用される。その理由は、そのリソースが表す実体が FHIR サーバを通じて利用できないか、リソースの作成者が既知の識別子を実際の場所に交換する方法がないためである。Reference.identifierは、実際にFHIRインスタンスとして公開されるものを指す必要はないが、FHIR インスタンスとして公開されることが期待されるビジネスコンセプトを指すものとし (SHALL)、そのインスタンスは、参照によって許可されるFHIRリソースタイプである必要がある。

- reference[string]: 他のリソースが見つかる場所への参照。この参照は、サービスベース URLからの相対参照であってもよいし、リソースが見つかる場所に解決する絶対URLであってもよい。参照はバージョン固有でもそうでなくてもよい。参照先が FHIR RESTful サーバーでない場合は、バージョン固有であると見なされます。内部フラグメント参照（＃で始まる）は、含まれるリ

ソースを参照する。

- partOf[object]: 親アカウントへの参照

- _display[object]: ディスプレイ用エクステンション

- _reference[object]: 参考のための拡張機能

- _type[object]: 型の拡張

- display[string]: リソース参照に加え、リソースを識別するプレーンテキストの説明文。

- extension[array]: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- id[string]: リソース内の要素の一意な ID (内部参照用)。これはスペースを含まない任意の文字列値でよい。

- identifier[object]: 対象リソースの識別子。これは、相手のリソースを直接参照する方法がない場合に使用される。その理由は、そのリソースが表す実体が FHIR サーバを通じて利用できないか、リソースの作成者が既知の識別子を実際の場所に変換する方法がないためである。Reference.identifierは、実際にFHIRインスタンスとして公開されるものを指す必要はないが、FHIR インスタンスとして公開されることが期待されるビジネスコンセプトを指すものとし (SHALL)、そのインスタンスは、参照によって許可されるFHIRリソースタイプである必要がある。

- reference[string]: 他のリソースが見つかる場所への参照。この参照は、サービスベース URLからの相対参照であってもよいし、リソースが見つかる場所に解決する絶対URLであってもよい。参照はバージョン固有でもそうでなくてもよい。参照先が FHIR RESTful サーバーでない場合は、バージョン固有であると見なされます。内部フラグメント参照（＃で始まる）は、含まれるリソースを参照する。

- resourceType[string]: これはアカウント・リソースである

- seeAlso[*]: アイテムに関する追加リソースを指すURIのリスト

- servicePeriod[object]: このアカウントに関連するサービスの日付範囲

- _end[object]: エンド用エクステンション

- _start[object]: スタートの延長

- end[string]: 期間の終わり。期間の終了日がない場合は、インスタンスが作成された時点で終了日が不明または計画されていなかったことを意味します。開始日が過去で、終了日が未来である場合があります。これは、その期間がその時点で終了することが予想/計画されていることを意味します。

- extension[array]: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- id[string]: リソース内の要素の一意な ID (内部参照用)。これはスペースを含まない任意の文字列値でよい。

- source[string]: エンティティ・データの元のソースを URL として示す一連の文字。ソース・プロバイダの完全修飾ドメイン名、またはソース・オブジェクトの URL を推奨する。

- status[string]: 口座が現在使用されているか／使用可能かどうかを示す。

- subject[array]: 経費を支出した事業体を特定する。サービスまたは物品の直接的な受領者が対象者の関連団体である場合もあるが、費用は最終的に勘定科目の対象者が負担した。

- text[object]: リソースの要約を含み、リソースの内容を人間に表現するために使用できる、人間が読めるナラティブ。ナラティブは構造化されたデータをすべて符号化する必要はないが、人間がナラティブを読むだけで臨牀的に安全であるように、十分な詳細を含むことが要求される。リソースの定義は、臨牀的安全性を確保するために、どのような内容をナラティブで表現すべきかを定義することができる。

- _status[object]: ステータスの延長

- div[*]: 実際の物語コンテンツは、XHTMLの縮小版である。

- extension[array]: 要素の基本定義に含まれない追加情報を表すために使用される。拡張の使用を安全かつ管理しやすくするために、拡張の定義と使用に適用される厳密なガバナンスのセットがある。実装者は誰でも拡張を定義できるが、拡張の定義の一部として満たすべき一連の要件がある (SHALL)。

- id[string]: リソース内の要素の一意な ID (内部参照用)。これはスペースを含まない任意の文字列値でよい。

必須プロパティ

- id
- type

HL7 標準のオリジナルのバージョン 4.3 からマッピングされたデータモデル。オリジナルの属性 - type- は NGSi の必須タイプとの衝突のため -hl7type- にリネームされた。その他、細かな修正が行われた。 <https://github.com/smart-data-models/dataModel.HL7/blob/master/README.md> を参照してください。

プロパティのデータモデル記述

アルファベット順（クリックで詳細表示）

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
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    line:
      description: 'This component contains the house number,
apartment number, street name, street direction, P.O. Box number, delivery hints,

```

```

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

```

```

The identification of the system that provides the coded form of the unit
  type: string
  unit:
    description: A human-readable form of the unit
    type: string
  value:
    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
  type: string
  type: object
  valueAnnotation:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _authorString:
      description: Extensions for authorString
      type: string
    _text:
      description: Extensions for text
      type: string
    _time:
      description: Extensions for time
      type: string
    authorReference:
      description: The individual responsible for making the
annotation
      type: string
    authorString:
      description: The individual responsible for making the
annotation
      pattern: '^[ \r\n\t\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
    valueInstant:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|1[2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
      type: string
    valueInteger:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^-?([0]|([1-9][0-9]*))$
      type: number
    valueMarkdown:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: '^[\r\n\t\S]+$'
      type: string
    valueMoney:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _currency:
          description: Extensions for currency
          type: string
        _value:
          description: Extensions for value
          type: string
        currency:
          description: ISO 4217 Currency Code
          type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          value:
            description: Numerical value (with implicit precision)
            type: string
          type: object
        value0id:
          description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'

```

```

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

```


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

```

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

```

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

```

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

```

```

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

```

```

definition of the extension'
  items:
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  label:
    description: 'A short label that can be used to reference the
citation from elsewhere in the containing artifact, such as a footnote index'
    type: string
  resource:
    description: 'The related resource, such as a library, value
set, profile, or other knowledge resource'
    type: string
  type:
    description: The type of relationship to the related
artifact
    enum:
      - documentation
      - justification
      - citation
      - predecessor
      - successor
      - derived-from
      - depends-on
      - composed-of
  url:
    description: A url for the artifact that can be followed to
access the actual content
    type: string
  type: object
  valueSampledData:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _data:
      description: Extensions for data
      type: string
    _dimensions:
      description: Extensions for dimensions
      type: string
    _factor:
      description: Extensions for factor
      type: string
    _lowerLimit:
      description: Extensions for lowerLimit
      type: string
    _period:
      description: Extensions for period
      type: string
    _upperLimit:
      description: Extensions for upperLimit
      type: string
    data:
      description: 'A series of data points which are decimal values
separated by a single space (character u20). The special values E (error), L
(below detection limit) and U (above detection limit) can also be used in place of
a decimal value'
      type: string
    dimensions:
      description: 'The number of sample points at each time point.
If this value is greater than one, then the dimensions will be interlaced - all
the sample points for a point in time will be recorded at once'
      type: string
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
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
            _implicitRules:
                additionalProperties: false
                description: Extensions for implicitRules
            properties:
                extension:
                    description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                        additionalProperties: false
                    properties:
                        _url:
                            additionalProperties: false
                            description: Extensions for url
                        properties:
                            extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                    type: array
                                id:
                                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                                    type: string
                                type: object
                                _valueBase64Binary:

```



```

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

```

```

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

```

```

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

```

```

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

```

```

        - old
        - mobile
    value:
        description: 'The actual contact point details, in a form that
is meaningful to the designated communication system (i.e. phone number or email
address)'
```

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

properties:
 _name:
 description: Extensions for name
 type: string
 _type:
 description: Extensions for type
 type: string
 contact:
 description: Contact details to assist a user in finding and
communicating with the contributor
 items:
 type: array
 extension:
 description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'

items:
 type: array
 id:
 description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
 type: string
 name:
 description: The name of the individual or organization
responsible for the contribution
 type: string
 type:
 description: The type of contributor
 enum:
 - author
 - editor
 - reviewer
 - endorser
 type: object
 valueCount:
 additionalProperties: false
 description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'

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

enum:
 - <
 - <=
 - '>='
 - >
 extension:
 description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of

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

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

```

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

```

```

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

```

elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself)

```

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

```

```

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

```


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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

data requirements must be true'
  items:
    type: array
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    name:
      description: 'A formal name for the event. This may be an
absolute URI that identifies the event formally (e.g. from a trigger registry), or
a simple relative URI that identifies the event in a local context'
      type: string
    timingDate:
      description: The timing of the event (if this is a periodic
trigger)
      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(- (0[1-9]|1[2][0-9]|3[0-1]))?)?$
      type: string
    timingDateTime:
      description: The timing of the event (if this is a periodic
trigger)
      pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(- (0[1-9]|1[2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)(([0-9]|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
    _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
      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.
          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])|1[2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00)))$
      type: string
    valueInteger:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^-?([0]|([1-9][0-9]*))$
      type: number
    valueMarkdown:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: '^[\r\n\t\S]+$'
      type: string
    valueMoney:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _currency:
          description: Extensions for currency
          type: string
        _value:
          description: Extensions for value
          type: string
        currency:
          description: ISO 4217 Currency Code
          type: string
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        value:
          description: Numerical value (with implicit precision)
          type: string
      type: object
    valueOid:
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+
      type: string
    valueParameterDefinition:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _documentation:
          description: Extensions for documentation
          type: string
        _max:
          description: Extensions for max
          type: string
        _min:
          description: Extensions for min
          type: string
        _name:
          description: Extensions for name

```

```

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

```

```

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

```

```

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

```


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

```
    type: string
  reference:
    description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
    type: string
  type:
    description: |-
      The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
      The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
    type: string
  valueRelatedArtifact:
    type: object
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _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:
    description: '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
                type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[\r\n\t\S]+$'
              type: string
            url:
              description: Source of the definition for the extension code - a
logical name or a URL
              pattern: ^\$*\$
              type: string
          valueAddress:

```

```

    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _city:
        description: Extensions for city
        type: string
      _country:
        description: Extensions for country
        type: string
      _district:
        description: Extensions for district
        type: string
      _line:
        description: Extensions for line
        items:
          type: array
      _postalCode:
        description: Extensions for postalCode
        type: string
      _state:
        description: Extensions for state
        type: string
      _text:
        description: Extensions for text
        type: string
      _type:
        description: Extensions for type
        type: string
      _use:
        description: Extensions for use
        type: string
      city:
        description: 'The name of the city, town, suburb, village or
other community or delivery center'
        type: string
      country:
        description: Country - a nation as commonly understood or
generally accepted
        type: string
      district:
        description: The name of the administrative area (county)
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      line:
        description: 'This component contains the house number,
apartment number, street name, street direction, P.O. Box number, delivery hints,
and similar address information'
        items:
          type: array
      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
        language:
            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])(-[0-9]|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
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
    _status:
    additionalProperties: false
    description: Extensions for status
    properties:
    extension:
    description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
    items:
    additionalProperties: false
    properties:
    _url:
    additionalProperties: false
    description: Extensions for url
    properties:
    extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
    type: array
    id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
    type: object
    _valueBase64Binary:
    additionalProperties: false
    description: Extensions for valueBase64Binary
    properties:
    extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
    type: array
    id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
    type: object
    _valueBoolean:
    additionalProperties: false
    description: Extensions for valueBoolean
    properties:
    extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the

```

```

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

```

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

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

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

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

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

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

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

```

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

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

A coverage may only be responsible for specific types of charges, and the sequence of the coverages in the account could be important when processing billing

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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]|[1-9][0-9]*$
        type: number

```



```

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

```

```

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

```

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

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

```

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

```

```

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

```

```

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

```

whether the actual value is greater or less than the stated value due to measurement issues; e.g. if the comparator is < , then the real value is < stated value'

```

enum:
  - <
  - <=
  - '>='
  - >
extension:
  description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
  items:
    type: string
  type: array
id:
  description: Unique id for the element 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
internal references). This may be any string value that does not contain spaces
    type: string
  system:
    description:
The identification of the system that provides the coded form of the unit
    type: string
  unit:
    description: A human-readable form of the unit
    type: string
  value:
    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
    type: string
    type: object
  maxDosePerLifetime:
    additionalProperties: false
    description: Upper limit on medication per lifetime of the
patient
  properties:
    _code:
      description: Extensions for code
      type: string
    _comparator:
      description: Extensions for comparator
      type: string

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

- official
- temp
- secondary
- old

value:

description: The portion of the identifier typically relevant to the user and which is unique within the context of the system

pattern: '^[\r\n\t\S]+\$'

type: string

type: object

valueInstant:

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

pattern: '^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))\$'

type: string

valueInteger:

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

pattern: '^-?([0]([1-9][0-9]*)\$)'

type: number

valueMarkdown:

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

pattern: '^[\r\n\t\S]+\$'

type: string

valueMoney:

additionalProperties: false

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

properties:

_currency:

additionalProperties: false

description: Extensions for currency

properties:

extension:

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

items:

type: string

type: array

id:

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

type: string

type: object

_value:

additionalProperties: false

description: Extensions for value

properties:

extension:

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

items:

type: string

type: array

id:

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

type: string

type: object

currency:

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```


reference is not to a FHIR RESTful server, then it should be assumed to be version specific. Internal fragment references (start with '#') refer to contained resources"

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

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

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

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

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

```
    description: A bibliographic citation for the related artifact.
This text SHOULD be formatted according to an accepted citation format
```

```
    pattern: '^[\r\n\t\S]+$'
    type: string
  display:
    description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
```

```
    pattern: '^[\r\n\t\S]+$'
    type: string
  document:
    additionalProperties: false
    description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
```

```
  properties:
    _contentType:
      description: Extensions for contentType
      type: string
    _creation:
      description: Extensions for creation
      type: string
    _data:
      description: Extensions for data
      type: string
    _hash:
      description: Extensions for hash
      type: string
    _language:
      description: Extensions for language
      type: string
    _size:
      description: Extensions for size
      type: string
    _title:
      description: Extensions for title
      type: string
    _url:
      description: Extensions for url
      type: string
    contentType:
      description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
      type: string
    creation:
      description: The date that the attachment was first created
      type: string
    data:
```

```
      description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
      type: string
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

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

```

    items:
      type: string
    type: array
  hash:
    description: The calculated hash of the data using SHA-1.
    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  
sigFormat:  
description: 'A mime type that indicates the technical format of the signature. Important mime types are application/signature+xml for X ML DigSig, application/jose for JWS, and image/* for a graphical image of a signature, etc'  
pattern: ^[^\s]+(\\s[^\s+]*)$  
type: string  
targetFormat:  
description:  
A mime type that indicates the technical format of the target resources signed by the signature  
pattern: ^[^\s]+(\\s[^\s+]*)$  
type: string  
type:  
description: An indication of the reason that the entity signed this document. This may be explicitly included as part of the signature information and can be used when determining accountability for various actions concerning the document  
items:  
type: string  
type: array  
when:  
description: When the digital signature was signed  
pattern: ^([0-9]([0-9])([0-9][1-9]|[1-9]0)|[1-9]00|[1-9]000)-([0-9]|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  
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: string

```

```

    type: array
  id:
    description: Unique id 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]))(-([0-9]|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]))(-([0-9]|1-2)[0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][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
    guarantor:
      description: The parties responsible for balancing the account if other
payment options fall short
    items:
      additionalProperties: false
      properties:
        _onHold:
          additionalProperties: false
          description: Extensions for onHold
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\S]+$'
              type: string
            type: object
          extension:
            description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
          items:
            additionalProperties: false
            properties:
              _url:
                description: Extensions for url
                type: string
              _valueBase64Binary:
                description: Extensions for valueBase64Binary
                type: string
              _valueBoolean:
                description: Extensions for valueBoolean
                type: string
              _valueCanonical:
                description: Extensions for valueCanonical
                type: string
              _valueCode:
                description: Extensions for valueCode
                type: string
              _valueDate:
                description: Extensions for valueDate
                type: string
              _valueDateTime:
                description: Extensions for valueDateTime
                type: string
              _valueDecimal:
                description: Extensions for valueDecimal
                type: string
              _valueId:
                description: Extensions for valueId
                type: string
              _valueInstant:
                description: Extensions for valueInstant
                type: string
              _valueInteger:
```

```

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

```

```

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

```

```

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

```

```

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

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

```



```

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

```

```

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

```

```

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

```

```

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

```

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

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

```
  properties:
    _system:
      description: Extensions for system
      type: string
    _use:
      description: Extensions for use
      type: string
    _value:
      description: Extensions for value
      type: string
    assigner:
      description: Organization that issued/manages the
```

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

```
    items:
      type: string
    type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  period:
    description: Time period during which identifier is/was valid
```

```
for use
      type: string
  system:
    description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
    type: string
  type:
```

```
    description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
    type: string
  use:
```

```
    description: The purpose of this identifier
    enum:
      - usual
      - official
      - temp
      - secondary
      - old
  value:
```

```
    description: The portion of the identifier typically relevant
to the user and which is unique within the context of the system
    type: string
  type: object
```

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

```
    pattern: '^[ \r\n\t\S]+$'
    type: string
```

```
  type:
    description: |-
      The expected type of the target of the reference. If both
```

Reference.type and Reference.reference are populated and Reference.reference is a FHIR URL, both SHALL be consistent.

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

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

```

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

```

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

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



```

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

```

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

```

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

```

    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
    type: string
    type: object
    type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      pattern: '^[ \r\n\t\S]+$'
      type: string
    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
          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
      pattern: ^true|false$
      type: boolean
    version:
      description: 'The version of the code system which was used when
      choosing this code. Note that a well-maintained code system does not need the
      version reported, because the meaning of codes is consistent across versions.
      However this cannot consistently be assured, and when the meaning is not
      guaranteed to be consistent, the version SHOULD be exchanged'
      pattern: '^[ \r\n\t\S]+$'
      type: string
    type: object
    type: array
  extension:
    description: 'May be used to represent additional information that is
    not part of the basic definition of the element. To make the use of extensions
    safe and manageable, there is a strict set of governance applied to the
    definition and use of extensions. Though any implementer can define an extension,
    there is a set of requirements that SHALL be met as part of the definition of the
    extension'
  items:
    additionalProperties: false
    properties:
      _url:
        additionalProperties: false
        description: Extensions for url
        properties:
          extension:
            description: 'May be used to represent additional information
            that is not part of the basic definition of the element. To make the use of
            extensions safe and manageable, there is a strict set of governance applied to
            the definition and use of extensions. Though any implementer can define an
            extension, there is a set of requirements that SHALL be met as part of the
            definition of the extension'
            items:
              type: array
            id:
              description: Unique id for the element within a resource (for
              internal references). This may be any string value that does not contain spaces
              type: string
            type: object
          _valueBase64Binary:
            additionalProperties: false
            description: Extensions for valueBase64Binary
            properties:
              extension:
                description: 'May be used to represent additional information
                that is not part of the basic definition of the element. To make the use of
                extensions safe and manageable, there is a strict set of governance applied to
                the definition and use of extensions. Though any implementer can define an
                extension, there is a set of requirements that SHALL be met as part of the
                definition of the extension'
                items:
                  type: array
                id:
                  description: Unique id for the element within a resource (for
                  internal references). This may be any string value that does not contain spaces
                  type: string
                type: object
              _valueBoolean:
                additionalProperties: false
                description: Extensions for valueBoolean
                properties:
                  extension:
                    description: 'May be used to represent additional information
                    that is not part of the basic definition of the element. To make the use of
                    extensions safe and manageable, there is a strict set of governance applied to
                    the definition and use of extensions. Though any implementer can define an
                    extension, there is a set of requirements that SHALL be met as part of the
                    definition of the extension'
                    items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
                      internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                  _valueCanonical:
                    additionalProperties: false
                    description: Extensions for valueCanonical
                    properties:
                      extension:
                        description: 'May be used to represent additional information
                        that is not part of the basic definition of the element. To make the use of

```

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

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

made

```
    type: string
  type: object
  valueAttachment:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _contentType:
        description: Extensions for contentType
        type: string
      _creation:
        description: Extensions for creation
        type: string
      _data:
        description: Extensions for data
        type: string
      _hash:
        description: Extensions for hash
        type: string
      _language:
        description: Extensions for language
        type: string
      _size:
        description: Extensions for size
        type: string
      _title:
        description: Extensions for title
        type: string
      _url:
        description: Extensions for url
        type: string
      contentType:
        description: Identifies the type of the data in the attachment
and allows a method to be chosen to interpret or render the data. Includes mime
type parameters such as charset where appropriate
        type: string
      creation:
        description: The date that the attachment was first created
        type: string
      data:
        description: 'The actual data of the attachment - a sequence
of bytes, base64 encoded'
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
        hash:
          description: The calculated hash of the data using SHA-1.
          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]+\)*$
          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[0-9]|1[1-9]00)|1[1-9]000)(-
(0[1-9]|1[0-2])(- (0[1-9]|1[1-2][0-9]|3[0-1])))?)?$
          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[0-9]|1[1-9]00)|1[1-9]000)(-
(0[1-9]|1[0-2])(- (0[1-9]|1[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))))?)?$
          type: string
        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: 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
  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|[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
    period:
        additionalProperties: false
        description: Time period during which identifier is/was valid for
use
    properties:
        _end:
            additionalProperties: false
            description: Extensions for end
        properties:
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
                type: string

```

```

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

```

```

    description: A reference to a code defined by a terminology
system
    items:
      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:
        items:
          type: number
        minItems: 2
        type: array
        minItems: 4
        type: array
      type: array
    type: array
  type:
    enum:
      - MultiPolygon
    type: string
  required:
    - type
    - coordinates
  title: GeoJSON MultiPolygon
  type: object
  x-ngsi:
    type: GeoProperty
x-ngsi:
  type: GeoProperty
meta:
  additionalProperties: false
  description: The metadata about the resource. This is content that is
maintained by the infrastructure. Changes to the content might not always be
associated with version changes to the resource
  properties:
    _lastUpdated:
      additionalProperties: false
      description: Extensions for lastUpdated
    properties:
      extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
      items:
        additionalProperties: false
        properties:
          _url:
            description: Extensions for url
            type: string
          _valueBase64Binary:
            description: Extensions for valueBase64Binary
            type: string
          _valueBoolean:
            description: Extensions for valueBoolean
            type: string
          _valueCanonical:
            description: Extensions for valueCanonical
            type: string
          _valueCode:

```

```

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

```

```

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

```

```

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

```

```

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

```

```

{4}-[0-9a-f]{12}$
    type: string
  type: object
  type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
  type: object
  _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
          _value0id:
            description: Extensions for value0id
            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
        _versionId:
        additionalProperties: false
        description: Extensions for versionId
        properties:
        extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
        additionalProperties: false
        properties:
        _url:
        description: Extensions for url
        type: string
        _valueBase64Binary:
        description: Extensions for valueBase64Binary
        type: string
        _valueBoolean:
        description: Extensions for valueBoolean
        type: string
        _valueCanonical:
        description: Extensions for valueCanonical
        type: string
        _valueCode:
        description: Extensions for valueCode
        type: string
        _valueDate:
        description: Extensions for valueDate
        type: string
        _valueDateTime:
        description: Extensions for valueDateTime
        type: string
        _valueDecimal:
        description: Extensions for valueDecimal
        type: string
        _valueId:

```

```

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

```

not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any 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: ^\$*\$
      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[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
    type: object
    valueRelatedArtifact:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
        _citation:
            description: Extensions for citation
            type: string
        _display:
            description: Extensions for display
            type: string
        _label:
            description: Extensions for label
            type: string
        _type:
            description: Extensions for type
            type: string
        _url:
            description: Extensions for url
            type: string
        citation:

```

```

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

```

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

```

    items:
      type: array
    factor:
      description:

```

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

```

      type: string
    id:

```

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

```

      type: string
    lowerLimit:

```

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

```

      type: string
    origin:

```

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

```

      type: string
    period:

```

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

```

      type: string
    upperLimit:

```

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

```

      type: string
    required:

```

```

      - origin
    type: object

```

```

  valueSignature:

```

```

    additionalProperties: false

```

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

```

  properties:

```

```

    _data:

```

```

      description: Extensions for data

```

```

      type: string
    _sigFormat:

```

```

      description: Extensions for sigFormat

```

```

      type: string
    _targetFormat:

```

```

      description: Extensions for targetFormat

```

```

      type: string
    _when:

```

```

      description: Extensions for when

```

```

      type: string
    data:

```

```

      description:

```

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

```

      type: string
    extension:

```

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

```

    items:
      type: array
    id:

```

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

```

      type: string
    onBehalfOf:

```

description: A reference to an application-usable description of the identity that is represented by the signature

```

      type: string
    sigFormat:

```

description: 'A mime type that indicates the technical format of the signature. Important mime types are application/signature+xml for X ML DigSig, application/jose for JWS, and image/* for a graphical image of a signature, etc'

```

      type: string
    targetFormat:

```

```

      description:

```

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

the signature

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



```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

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

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

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

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

```

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

```

```

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

```

```

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

```



```

        type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    type: object
    city:
        description: 'The name of the city, town, suburb, village or other
community or delivery center'
        pattern: '^[\r\n\t\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]+$'
                type: string
            system:
                description: The identification of the system that provides the
coded form of the unit
                pattern: ^\$*
                type: string
            unit:
                description: A human-readable form of the unit
                pattern: '^[ \r\n\t\S]+$'
                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]+$'
    type: string
  time:
    description: Indicates when this particular annotation was made
    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(- (0[1-9]|1[1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?))?)?$
    type: string
  type: object
  valueAttachment:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _contentType:
      additionalProperties: false
      description: Extensions for contentType
    properties:
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:

```

```

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

```

```

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

```

```

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

```



```

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

```

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

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

```

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

```

```

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

```

```

        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    type: object
    _system:
        additionalProperties: false
        description: Extensions for system
        properties:
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type: object
        _use:
            additionalProperties: false
            description: Extensions for use
            properties:
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                        type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
            type: object
        _value:
            additionalProperties: false
            description: Extensions for value
            properties:
                extension:
                    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                    items:
                        type: string
                    type: array
                id:
                    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                    type: string
            type: object
        extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
                type: string
            type: array
        id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\S]+$'
            type: string
        period:
            additionalProperties: false
            description: Time period when the contact point was/is in use
            properties:
                _end:
                    description: Extensions for end
                    type: string
                _start:
                    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:
    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|1-90)|1-900)|1-9000)(-([0-9]1-9|
10-2))(-([0-9]1-2|0-9|30-1)))?*$
    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|1-90)|1-900)|1-9000)(-([0-9]1-9|
10-2))(-([0-9]1-2|0-9|30-1))(T([01]0-9|20-3)):([0-5]0-9):([0-5]0-9|60)
(\.0-9+)?(Z|(\+|-)(([0-9]10-3):[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
internal references). This may be any string value that does not contain spaces
        type: string
    system:
        description: The identification of the system that provides the coded form of the unit
        type: string
    unit:
        description: A human-readable form of the unit
        type: string
    value:
        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value

```

```

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

```



```

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

```

```

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

```

part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

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

```


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

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

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

```
  assigner:
    additionalProperties: false
    description: Organization that issued/manages the identifier
    properties:
      _display:
        description: Extensions for display
        type: string
      _reference:
        description: Extensions for reference
        type: string
      _type:
        description: Extensions for type
        type: string
      display:
        description: Plain text narrative that identifies the resource
in addition to the resource reference
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
```

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

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

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

```
    type: string
  type:
    description: |-
      The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
      The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
```

hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to <http://hl7.org/fhir/StructureDefinition/Patient>. Absolute URLs are only allowed for logical models (and can only be used in references in logical models, not resources)

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

represented - whether the actual value is greater or less than the stated value due to measurement issues; e.g. if the comparator is < , then the real value is < stated value'

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

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

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

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

```
    properties:
      _system:
        description: Extensions for system
        type: string
      _use:
        description: Extensions for use
        type: string
      _value:
        description: Extensions for value
        type: string
    assigner:
      description: Organization that issued/manages the
identifier
      type: string
```

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

```
      items:
        type: string
      type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    period:
      description: Time period during which identifier is/was valid
for use
      type: string
```

```
    system:
      description: 'Establishes the namespace for the value - that
is, a URL that describes a set values that are unique'
      type: string
```

```
    type:
      description: A coded type for the identifier that can be used
to determine which identifier to use for a specific purpose
      type: string
    use:
      description: The purpose of this identifier
      enum:
        - usual
        - official
```

```

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

```



```

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

```

and allows a method to be chosen to interpret or render the data. Includes mime type parameters such as charset where appropriate

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

```

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

```

```

    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: string
      type: array
    id:
      description: Unique id 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: object
    sigFormat:
      description: 'A mime type that indicates the technical format of
the signature. Important mime types are application/signature+xml for X ML DigSig,
application/jose for JWS, and image/* for a graphical image of a signature,
etc'
      pattern: ^[^\s]+(\s[^\s]+)*$
      type: string
    targetFormat:
      description:
A mime type that indicates the technical format of the target resources signed by
the signature
      pattern: ^[^\s]+(\s[^\s]+)*$
      type: string
    type:
      description: An indication of the reason that the entity signed
this document. This may be explicitly included as part of the signature information
and can be used when determining accountability for various actions concerning the
document
      items:
        type: string
      type: array
    when:
      description: When the digital signature was signed
      pattern: ^([0-9]([0-9]([0-9]([1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
([0-9]([1-9]|1[0-2])-(0[1-9]|1[2]([0-9]|3[0-1]))T([01]([0-9]|2[0-3]):[0-5][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:
    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[0-9]|2[0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
    type: string
    valueInteger:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^-?([0]|([1-9][0-9]*))$
    type: number
    valueMarkdown:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^[ \r\n\t\S]+$'
    type: string
    valueMoney:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueOid:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+
    type: string
    valueParameterDefinition:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valuePeriod:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valuePositiveInt:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^[1-9][0-9]*$
    type: number
    valueQuantity:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueRange:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueRatio:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueRatioRange:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string

```

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

```

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

```

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

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

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

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

```

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

```

```

list)'
    type: string
    valueContributor:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueCount:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueDataRequirement:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueDate:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1])))??$
    type: string
    valueDateTime:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
    type: string
    valueDecimal:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^-?(0|[1-9][0-9]*)\.([0-9]+)?([eE][+-]?[0-9]+)?$
    type: number
    valueDistance:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueDosage:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueDuration:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueExpression:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueHumanName:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueId:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^[A-Za-z0-9\-\.\.]{1,64}$
    type: string
    valueIdentifier:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueInstant:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])-(0[1-9]|[1-2][0-9]|3[0-1]))T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[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: ^\$*$
    type: string
    valueUrl:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^\$*$
    type: string
    valueUsageContext:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    type: string
    valueUuid:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}$
    type: string
    type: object
    type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    pattern: '^[ \r\n\t\S]+$'
    type: string
    period:
      additionalProperties: false
      description: Time period during which identifier is/was valid for
use
    properties:
      _end:
        description: Extensions for end
        type: string
      _start:
        description: Extensions for start
        type: string
      end:
        description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: string
        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      start:
        description: The start of the period. The boundary is
inclusive
        type: string
    type: object
    system:

```

```

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

```

is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, 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[2-9]|3[0-1]))?)?$
            type: string
        valueDateTime:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2]))(- (0[1-9]|1[2-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
            type: string
        valueDecimal:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^-?(0|[1-9][0-9]*) (\.[0-9]+)? ([eE][+-]?[0-9]+)?$
            type: number
        valueDistance:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueDosage:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueDuration:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueExpression:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueHumanName:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueId:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^[A-Za-z0-9\-\.\_]{1,64}$

```

```

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

```

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

```

        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-
(0[1-9]|1[0-2])-(0[1-9]|1[2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][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)'
```

```

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

```

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

          pattern: ^[A-Za-z0-9\\-\\.]{1,64}$
          type: string
        valueIdentifier:
          description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
```

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

          type: string
        valuePositiveInt:
          description: 'Value of extension - must be one of a
```

```

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

```

```

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

```



```

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

```

```

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

```

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

```

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

```

```

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

```

```

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

```

```

    _code:
      description: Extensions for code
      type: string
    _comparator:
      description: Extensions for comparator
      type: string
    _system:
      description: Extensions for system
      type: string
    _unit:
      description: Extensions for unit
      type: string
    _value:
      description: Extensions for value
      type: string
  code:
    description: A computer processable form of the unit in some
unit representation system
    type: string
  comparator:
    description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
    enum:
      - <
      - <=
      - '>='
      - >
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: array
  id:
    description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
    type: string
  system:
    description:
The identification of the system that provides the coded form of the unit
    type: string
  unit:
    description: A human-readable form of the unit
    type: string
  value:
    description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
    type: string
  type: object
  valueAnnotation:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _authorString:
      description: Extensions for authorString
      type: string
    _text:
      description: Extensions for text
      type: string
    _time:
      description: Extensions for time
      type: string
  authorReference:
    description: The individual responsible for making the
annotation
    type: string
  authorString:
    description: The individual responsible for making the
annotation
    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]+$'
  type: string
valueMoney:
  additionalProperties: false
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _currency:
      description: Extensions for currency
      type: string
    _value:
      description: Extensions for value
      type: string
    currency:
      description: ISO 4217 Currency Code
      type: string
    extension:
      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
      items:
        type: array
    id:
      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
    value:
      description: Numerical value (with implicit precision)
      type: string
  type: object
valueOid:
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  pattern: ^urn:oid:[0-2](\\.([0-9][0-9]*))+$
  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:
                        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[0-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00))$
    type: string
    valueInteger:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: ^-?([0]|([1-9][0-9]*))$
    type: number
    valueMarkdown:
      description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
    pattern: '^[ \r\n\t\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
  x-ngsi:
    type: Property
  resourceType:
    description: This is a Account resource
    enum:
      - Account
    type: string
  x-ngsi:
    type: Property
  seeAlso:
    description: list of uri pointing to additional resources about the item
    oneOf:
      - items:
          format: uri
          type: string
          minItems: 1
          type: array
      - format: uri
          type: string
  x-ngsi:
    type: Property
  servicePeriod:
    additionalProperties: false
    description: The date range of services associated with this account
    properties:
      _end:
        additionalProperties: false
        description: Extensions for end
        properties:
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              additionalProperties: false
              properties:
                _url:
                  description: Extensions for url
                  type: string
                _valueBase64Binary:
                  description: Extensions for valueBase64Binary
                  type: string
                _valueBoolean:
                  description: Extensions for valueBoolean
                  type: string
                _valueCanonical:
                  description: Extensions for valueCanonical
                  type: string
                _valueCode:
                  description: Extensions for valueCode
                  type: string
                _valueDate:
                  description: Extensions for valueDate
                  type: string
                _valueDateTime:
                  description: Extensions for valueDateTime
                  type: string
                _valueDecimal:
                  description: Extensions for valueDecimal

```

```

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

```

```

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

```

```

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

```

```

_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]+$'
        type: string
    type: object
end:
    description: 'The end of the period. If the end of the period is
missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
    pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-([0-9]([0-9]
1[0-2])|([0-9]([1-2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)
(\.[0-9]+)?Z|(\+|-)(([0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
    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
                _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: ^\$*\$
    type: string
  valueAddress:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _city:
        description: Extensions for city
        type: string
      _country:
        description: Extensions for country
        type: string
      _district:
        description: Extensions for district
        type: string
      _line:
        description: Extensions for line
        items:
          type: array
      _postalCode:
        description: Extensions for postalCode
        type: string
      _state:
        description: Extensions for state
        type: string
      _text:
        description: Extensions for text
        type: string
      _type:
        description: Extensions for type
        type: string
      _use:
        description: Extensions for use
        type: string
      city:
        description: 'The name of the city, town, suburb, village or
other community or delivery center'
        type: string
      country:
        description: Country - a nation as commonly understood or
generally accepted
        type: string
      district:
        description: The name of the administrative area (county)
        type: string
      extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
          type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
      line:
        description: 'This component contains the house number,
apartment number, street name, street direction, P.O. Box number, delivery hints,
and similar address information'
        items:
          type: array
      period:
        description: Time period when address was/is in use
        type: string
      postalCode:
        description: A postal code designating a region defined by the
postal service
        type: string
      state:
        description: Sub-unit of a country with limited sovereignty in
a federally organized country. A code may be used if codes are in common use (e.g.
US 2 letter state codes)
        type: string
      text:
        description: Specifies the entire address as it should be
displayed e.g. on a postal label. This may be provided instead of or as well as the
specific parts
        type: string

```



```

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

```

```

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

```

```

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

```

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

```

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

```

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

```

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

```

```

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

```

```

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

```

```

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

```


set of the data types (see [Extensibility](extensibility.html) for a list)'

```
properties:
  _asNeededBoolean:
    description: Extensions for asNeededBoolean
    type: string
  _patientInstruction:
    description: Extensions for patientInstruction
    type: string
  _sequence:
    description: Extensions for sequence
    type: string
  _text:
    description: Extensions for text
    type: string
  additionalInstruction:
    description:
```

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

```
    items:
      type: array
    asNeededBoolean:
      description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
```

```
      pattern: ^true|false$
      type: boolean
    asNeededCodeableConcept:
      description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
```

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

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

```
      type: string
    maxDosePerAdministration:
      description: Upper limit on medication per administration
      type: string
```

```
    maxDosePerLifetime:
      description: Upper limit on medication per lifetime of the
```

```
patient
      type: string
    maxDosePerPeriod:
      description: Upper limit on medication per unit of time
      type: string
```

```
    method:
      description: Technique for administering medication
      type: string
```

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

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

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

```
patient or consumer
      type: string
    route:
      description: How drug should enter body
      type: string
```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```


is no way for the author of the resource to convert a known identifier to an actual location. There is no requirement that a Reference.identifier point to something that is actually exposed as a FHIR instance, but it SHALL point to a business concept that would be expected to be exposed as a FHIR instance, and that instance would need to be of a FHIR resource type allowed by the reference'

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

type: string
type:
  description: |-
    The expected type of the target of the reference. If both
    Reference.type and Reference.reference are populated and Reference.reference is a
    FHIR URL, both SHALL be consistent.
    The type is the Canonical URL of Resource Definition that is
    the type this reference refers to. References are URLs that are relative to http://
    hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
    fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
    (and can only be used in references in logical models, not resources)
type: string
type: object
valueRelatedArtifact:
  additionalProperties: false
  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
properties:
  _citation:
    description: Extensions for citation
    type: string
  _display:
    description: Extensions for display
    type: string
  _label:
    description: Extensions for label
    type: string
  _type:
    description: Extensions for type
    type: string
  _url:
    description: Extensions for url
    type: string
  citation:
    description:
A bibliographic citation for the related artifact. This text SHOULD be formatted
according to an accepted citation format
    type: string
  display:
    description: 'A brief description of the document or knowledge
resource being referenced, suitable for display to a consumer'
    type: string
  document:
    description: 'The document being referenced, represented as an
attachment. This is exclusive with the resource element'
    type: string
  extension:
    description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
    items:
      type: array
  id:
    description: Unique id for the element within a resource (for
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
        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)(-([0-9]
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)))?)?)?$'
        type: string
        type: object
        x-ngsi:
        type: Property
        source:
        description: 'A sequence of characters giving the original source of the
entity data as a URL. Recommended to be the fully qualified domain name of the
source provider, or the URL to the source object'
        type: string
        x-ngsi:
        type: Property
        status:
        description: Indicates whether the account is presently used/usable or
not
        pattern: '^[^s]+(s[^s]+)*$'
        type: string
        x-ngsi:
        type: Property
        subject:
        description: 'Identifies the entity which incurs the expenses. While the
immediate recipients of services or goods might be entities related to the
subject, the expenses were ultimately incurred by the subject of the Account'
        items:
        additionalProperties: false
        properties:
        _display:
        additionalProperties: false
        description: Extensions for display
        properties:
        extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
        type: string
        type: array
        id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\S]+$'
        type: string
        type: object
        _reference:
        additionalProperties: false
        description: Extensions for reference
        properties:
        extension:
        description: 'May be used to represent additional information that

```

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

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

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

```
  display:
    description: Plain text narrative that identifies the resource in
addition to the resource reference
```

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

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

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

        type: string
    _start:
        description: Extensions for start
        type: string
    end:
        description: 'The end of the period. If the end of the period
is missing, it means no end was known or planned at the time the instance was
created. The start may be in the past, and the end date in the future, which means
that period is expected/planned to end at that time'
        type: string
    extension:
        description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
        items:
            type: string
        type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
    start:
        description: The start of the period. The boundary is
inclusive
        type: string
    type: object
    system:
        description: 'Establishes the namespace for the value - that is, a
URL that describes a set values that are unique'
        pattern: ^S*$
        type: string
    type:
        additionalProperties: false
        description: A coded type for the identifier that can be used to
determine which identifier to use for a specific purpose
        properties:
            _text:
                description: Extensions for text
                type: string
            coding:
                description: A reference to a code defined by a terminology
system
                items:
                    type: string
                type: array
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            text:
                description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
                type: string
            type: object
        use:
            description: The purpose of this identifier
            enum:
                - usual
                - official
                - temp
                - secondary
                - old
            value:
                description: The portion of the identifier typically relevant to
the user and which is unique within the context of the system
                pattern: '^[ \r\n\t\S]+$'
                type: string
        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[2-9]|3[0-1]))?)?$
            type: string
        valueDateTime:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2]))(- (0[1-9]|1[2-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?)?$
            type: string
        valueDecimal:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^-?(0|[1-9][0-9]*) (\.[0-9]+)? ([eE][+-]?[0-9]+)?$
            type: number
        valueDistance:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueDosage:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueDuration:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueExpression:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueHumanName:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            type: string
        valueId:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^[A-Za-z0-9\-\.\.]{1,64}$

```



```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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
          _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]))(-([0-9]|1[2][0-9]|3[0-1]))?)?$
        type: string
      valueDateTime:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2]))(-([0-9]|1[2][0-9]|3[0-1]))(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))))?)?$
        type: string
      valueDecimal:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^-?(0|[1-9][0-9]*)\.([0-9]+)?([eE][+-]?[0-9]+)?$
        type: number
      valueDistance:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        properties:
          _code:
            description: Extensions for code
            type: string
          _comparator:
            description: Extensions for comparator
            type: string
          _system:
            description: Extensions for system
            type: string
          _unit:
            description: Extensions for unit
            type: string
          _value:
            description: Extensions for value
            type: string
        code:
          description: A computer processable form of the unit in some
unit representation system
          type: string
        comparator:
          description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is < , then the real value is <
stated value'
          enum:
            - <
            - <=
            - '>='
            - >
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
```

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

```

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

```



```

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

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

```

```

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

```

ペイロードの例

アカウント NGSI-v2 キー値の例

以下は、JSON-LD形式のAccountをkey-valuesとして返す例である。これは NGSI-v2 と互換性があり、options=keyValues を使用すると個々のエンティティのコンテキストデータを返す。

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"
    }
  ]
}

```

アカウント NGSI-v2 正規化例

以下は、正規化された JSON-LD 形式の Account の例である。これは、オプションを使用しない場合、NGSI-v2と互換性があり、個々のエンティティのコンテキストデータを返します。

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"
          }
        ]
      }
    }
  }
}

```

アカウント NGSI-LD キー値の例

以下は、JSON-LD形式のAccountをkey-valuesとして返す例である。options=keyValues`を使うとNGSI-LDと互換性があり、個々のエンティティのコンテキストデータを返す。

show/hide example

```

{
  "resourceType": "Account",
  "id": "example",
  "type": "Account",
  "text": {
    "status": "generated",
    "div": "\u003cdiv xmlns\u003d\u003d\u003dhttp://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"
]
}

```

アカウント NGSI-LD 正規化例

以下は、正規化された JSON-LD 形式の Account の例である。これは、オプションを使用しない場合の NGSI-LD と互換性があり、個々のエンティティのコンテキストデータを返します。

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"
  ]
}

```

マグニチュード単位の扱い方については、[FAQ 10](#)を参照のこと。