



엔티티: 계정

[오픈 라이선스](#)

[문서 자동 생성](#)

글로벌 설명:

특정 목적을 위해 발생한 가치를 추적하기 위한 재무 도구. 의료 분야에서는 환자, 비용 센터 등의 비용을 추적하는 데 사용됩니다.

버전: 0.0.1

속성 목록

[*] 속성에 유형이 없는 것은 여러 유형 또는 다른 형식/패턴을 가질 수 있기 때문입니다.

- `_description[object]`: 설명용 확장 기능

 - `extension[array]`: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

 - `id[string]`: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

 - `_implicitRules[object]`: `implicitRules`의 확장

 - `extension[array]`: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

 - `id[string]`: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

 - `_language[object]`: 언어 확장 기능

 - `extension[array]`: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

 - `id[string]`: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

- `_name[object]`: 이름 확장명

- `extension[array]`: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다.
확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다.
모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

- `id[string]`: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

- `_status[object]`: 상태 확장 기능

- `extension[array]`: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다.
확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다.
모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

- `id[string]`: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

- `address[object]`: 우편 주소 . Model: <https://schema.org/address>

- `addressCountry[string]`: 국가. 예를 들어, 스페인 . Model: <https://schema.org/addressCountry>

- `addressLocality[string]`: 도로명 주소가 있는 지역 및 해당 지역에 속한 지역 . Model: <https://schema.org/addressLocality>

- `addressRegion[string]`: 해당 지역이 위치한 지역과 해당 국가의 지역 . Model: <https://schema.org/addressRegion>

- `district[string]`: 지구는 일부 국가에서는 지방 정부에서 관리하는 행정 구역의 일종입니다.

- `postOfficeBoxNumber[string]`: 사서함 주소의 우체국 사서함 번호입니다. 예: 03578 . Model: <https://schema.org/postOfficeBoxNumber>

- `postalCode[string]`: 우편 번호입니다. 예: 24004 . Model: <https://schema.org/postalCode>

- `streetAddress[string]`: 거리 주소 . Model: <https://schema.org/streetAddress>

- `streetNr[string]`: 공공 도로의 특정 건물을 식별하는 번호

- `alternateName[string]`: 이 항목의 대체 이름

- `areaServed[string]`: 서비스 또는 제공 품목이 제공되는 지리적 영역 . Model: <https://schema.org/Text>

- `contained[array]`: 이러한 리소스는 해당 리소스가 포함된 리소스와 별개로 독립적으로 존재하지 않으며, 독립적으로 식별할 수 없고 독립적인 거래 범위도 가질 수 없습니다.

- `coverage[array]`: 이 계정의 결제 대금을 부담할 책임이 있는 당사자(들) 및 계정에 적용해야 하는 순서

- `dataProvider[string]`: 조화된 데이터 엔티티의 공급자를 식별하는 일련의 문자

- `dateCreated[date-time]`: 엔티티 생성 타임스탬프. 이는 일반적으로 스토리지 플랫폼에서 할당합니다.

- `dateModified[date-time]`: 엔티티의 마지막 수정 타임스탬프입니다. 이는 일반적으로 스토리지 플랫폼에서 할당합니다.

- `description[string]`: 계정이 추적하는 대상과 사용 방법에 대한 추가 정보를 제공합니다.

- `extension[array]`: 리소스의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다.
확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다.
모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

- `guarantor[array]`: 다른 결제 옵션이 부족할 경우 계정 잔액에 대한 책임이 있는 당사자

- `hl7type[object]`: 보고 및 검색 목적으로 계정을 분류합니다.

- `_text[object]`: 텍스트용 확장 기능

- `coding[array]`: 용어 시스템에 의해 정의된 코드에 대한 참조

- `extension[array]`: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다.
확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다.
모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

- `id[string]`: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

- `text[string]`: 데이터를 입력한 사용자가 보거나 선택하거나 발화한 개념의 인간 언어 표현 및/또는 사용자의 의도된 의미를 나타냅니다.

- **id[*]**: 엔티티의 고유 식별자
 - **identifier[array]**: 계정을 참조하는 데 사용되는 고유 식별자입니다. 사람이 사용하기 위한 것일 수도 있고 아닐 수도 있습니다(예: 신용카드 번호).
 - **implicitRules[string]**: 리소스를 만들 때 따랐으며 콘텐츠를 처리할 때 이해해야 하는 일련의 규칙에 대한 참조입니다. 다른 프로필 등과 함께 특수 규칙을 정의하는 구현 가이드에 대한 참조인 경우가 많습니다.
 - **language[string]**: 리소스가 작성되는 기본 언어
 - **location[*]**: 항목에 대한 지오순 참조입니다. 포인트, 라인 문자열, 다각형, 멀티포인트, 멀티라인 문자열 또는 멀티폴리곤일 수 있습니다.
 - **meta[object]**: 리소스에 대한 메타데이터입니다. 인프라에서 유지 관리하는 콘텐츠입니다. 콘텐츠의 변경 사항이 리소스의 버전 변경 사항과 항상 연结되는 것은 아닙니다.
 - **_lastUpdated[object]**: 마지막에 대한 확장자업데이트
 - **_source[object]**: 소스용 확장 프로그램
 - **_versionId[object]**: 버전아이디에 대한 확장
 - **extension[array]**: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.
 - **id[string]**: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.
 - **lastUpdated[string]**: 리소스가 마지막으로 변경된 시점(예: 버전이 변경된 시점)
 - **profile[array]**: 이 리소스가 준수한다고 주장하는 프로파일([[구조 정의]] 리소스에 대한 참조)의 목록입니다. URL은 [[[구조정의]].url]]에 대한 참조입니다.
 - **security[array]**: 이 리소스에 적용된 보안 레이블입니다. 이러한 태그는 특정 리소스를 전체 보안 정책 및 인프라에 연결합니다.
 - **source[string]**: 리소스의 소스 시스템을 식별하는 URI입니다. 이는 리소스의 정보 출처를 추적하거나 구별하는 데 사용할 수 있는 최소한의 [[출처]] 정보를 제공합니다. 출처는 다른 FHIR 서버, 문서, 메시지, 데이터베이스 등을 식별할 수 있습니다.
 - **tag[array]**: 이 리소스에 적용된 태그입니다. 태그는 리소스를 식별하고 프로세스 및 워크플로와 연관시키는데 사용되며, 애플리케이션이 리소스의 의미를 해석할 때 태그를 고려할 필요는 없습니다.
 - **versionId[string]**: URL의 버전 부분에 표시되는 버전별 식별자입니다. 이 값은 리소스가 생성, 업데이트 또는 삭제될 때 변경됩니다.
 - **modifierExtension[array]**: 리소스의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용할 수 있으며, 해당 정보를 포함하는 요소에 대한 이해 및/또는 포함 요소 하위 요소에 대한 이해를 수정합니다. 일반적으로 수정자 요소는 부정 또는 자격을 제공합니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의와 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다. 리소스를 처리하는 애플리케이션은 수정자 확장을 확인해야 합니다.
- 수정자 확장은 Resource 또는 DomainResource의 어떤 요소의 의미도 변경해서는 안 됩니다(수정자 확장 자체의 의미도 변경할 수 없음 포함).
- **name[string]**: 보고서 등에서 사람에게 계정을 표시할 때 계정에 사용되는 이름
 - **owner[object]**: 계정 관리 책임이 있는 서비스 지역, 병원, 부서 등을 나타냅니다.
 - **_display[object]**: 디스플레이용 확장 기능
 - **_reference[object]**: 참조용 확장 프로그램
 - **_type[object]**: 유형에 대한 확장
 - **display[string]**: 리소스 참조와 함께 리소스를 식별하는 일반 텍스트 서술
 - **extension[array]**: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.
 - **id[string]**: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.
 - **identifier[object]**: 대상 리소스의 식별자입니다. 이 식별자는 다른 리소스를 직접 참조할 방법이 없는 경우, 즉 해당 리소스가 나타내는 엔티티가 FHIR 서버를 통해 제공되지 않거나 리소스 작성자가 알려진 식별자를 실제 위치로 변환할 방법이 없는 경우에 사용됩니다. Reference.identifier가 실제로 FHIR 인스턴스로 노출되는 것을 가리킬 필요는 없지만, FHIR 인스턴스로 노출될 것으로 예상되는 비즈니스 개념을 가리켜야 하며, 해당 인스턴스는 참조에서 허용하는 FHIR 리소스 유형이어야 합니다.

- **reference[string]**: 다른 리소스를 찾을 수 있는 위치에 대한 참조입니다. 참조는 상대 참조일 수 있으며, 이 경우 서비스 기본 URL에 상대적인 참조이거나 리소스가 발견된 위치로 확인되는 절대 URL일 수 있습니다. 참조는 버전별일 수도 있고 아닐 수도 있습니다. 참조가 FHIR RESTful 서버에 대한 참조가 아니라면 버전에 따라 다르다고 가정해야 합니다. 내부 조각 참조(#로 시작)는 포함된 리소스를 참조합니다.

- **type[string]**: 참조 대상의 예상 유형입니다. 참조 유형과 참조 참조가 모두 채워져 있고 참조 참조가 FHIR URL인 경우, 둘 다 일관성이 있어야 합니다.

유형은 이 참조가 참조하는 유형인 리소스 정의의 표준 URL입니다. 참조는 <http://hl7.org/fhir/StructureDefinition/>에 상대적인 URL입니다(예: 환자는 <http://hl7.org/fhir/StructureDefinition/Patient>에 대한 참조). 절대 URL은 논리 모델에만 허용됩니다(리소스가 아닌 논리 모델의 참조에만 사용할 수 있음).

- **partOf[object]**: 부모 계정에 대한 참조

- **_display[object]**: 디스플레이용 확장 기능

- **_reference[object]**: 참조용 확장 프로그램

- **_type[object]**: 유형에 대한 확장

- **display[string]**: 리소스 참조와 함께 리소스를 식별하는 일반 텍스트 서술

- **extension[array]**: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

- **id[string]**: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

- **identifier[object]**: 대상 리소스의 식별자입니다. 이 식별자는 다른 리소스를 직접 참조할 방법이 없는 경우, 즉 해당 리소스가 나타내는 엔티티가 FHIR 서버를 통해 제공되지 않거나 리소스 작성자가 알려진 식별자를 실제 위치로 변환할 방법이 없는 경우에 사용됩니다. Reference.identifier가 실제로 FHIR 인스턴스로 노출되는 것을 가리킬 필요는 없지만, FHIR 인스턴스로 노출될 것으로 예상되는 비즈니스 개념을 가리켜야 하며, 해당 인스턴스는 참조에서 허용하는 FHIR 리소스 유형이어야 합니다.

- **reference[string]**: 다른 리소스를 찾을 수 있는 위치에 대한 참조입니다. 참조는 상대 참조일 수 있으며, 이 경우 서비스 기본 URL에 상대적인 참조이거나 리소스가 발견된 위치로 확인되는 절대 URL일 수 있습니다. 참조는 버전별일 수도 있고 아닐 수도 있습니다. 참조가 FHIR RESTful 서버에 대한 참조가 아니라면 버전에 따라 다르다고 가정해야 합니다. 내부 조각 참조(#로 시작)는 포함된 리소스를 참조합니다.

- **type[string]**: 참조 대상의 예상 유형입니다. 참조 유형과 참조 참조가 모두 채워져 있고 참조 참조가 FHIR URL인 경우, 둘 다 일관성이 있어야 합니다.

유형은 이 참조가 참조하는 유형인 리소스 정의의 표준 URL입니다. 참조는 <http://hl7.org/fhir/StructureDefinition/>에 상대적인 URL입니다(예: 환자는 <http://hl7.org/fhir/StructureDefinition/Patient>에 대한 참조). 절대 URL은 논리 모델에만 허용됩니다(리소스가 아닌 논리 모델의 참조에만 사용할 수 있음).

- **resourceType[string]**: 계정 리소스입니다.

- **seeAlso[*]**: 항목에 대한 추가 리소스를 가리키는 URL 목록

- **servicePeriod[object]**: 이 계정과 연결된 서비스의 날짜 범위

- **_end[object]**: 끝을 위한 확장

- **_start[object]**: 시작용 확장 프로그램

- **end[string]**: 기간의 끝입니다. 기간 종료가 누락된 경우 인스턴스가 생성될 당시 종료가 알려지지 않았거나 계획되지 않았음을 의미합니다. 시작 날짜는 과거일 수 있고 종료 날짜는 미래일 수 있으며, 이는 해당 기간이 해당 시점에 종료될 것으로 예상/계획되어 있음을 의미합니다.

- **extension[array]**: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

- **id[string]**: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

- **start[string]**: 기간의 시작입니다. 경계는 포괄적입니다.

- **source[string]**: 엔티티 데이터의 원본 소스를 URL로 제공하는 문자 시퀀스입니다. 소스 공급자의 정규화된 도메인 이름 또는 소스 개체에 대한 URL을 사용하는 것이 좋습니다.

- **status[string]**: 계정이 현재 사용 중인지/사용 가능한지 여부를 나타냅니다.

- **subject[array]**: 비용을 발생시킨 주체를 식별합니다. 서비스 또는 재화의 직접적인 수령인은 대상과 관련된 범인일 수 있지만, 비용은 궁극적으로 계정 주체가 발생시켰습니다.

- **text[object]**: 사람이 읽을 수 있는 내러티브로, 리소스에 대한 요약이 포함되어 있으며 리소스의 내용을 사람에게 표현하는 데 사용할 수 있습니다. 내러티브는 모든 구조화된 데이터를 인코딩할 필요는 없지만, 사람이 내러티브를 읽는 것만으로도 임상적으로 안전할 수 있도록 충분한 세부 정보를 포함해야 합니다. 리소스 정

의는 임상적 안전을 보장하기 위해 내러티브에 어떤 콘텐츠를 표현해야 하는지 정의할 수 있습니다.

- `_status[object]`: 상태 확장 기능

- `div[*]`: 실제 내러티브 콘텐츠, XHTML을 제거한 버전

- `extension[array]`: 요소의 기본 정의에 포함되지 않은 추가 정보를 나타내는 데 사용될 수 있습니다. 확장을 안전하고 관리하기 쉽게 사용하기 위해 확장의 정의 및 사용에 적용되는 엄격한 거버넌스가 있습니다. 모든 구현자는 확장을 정의할 수 있지만, 확장 정의의 일부로 충족해야 하는 일련의 요구 사항이 있습니다.

- `id[string]`: 리소스 내 요소의 고유 ID(내부 참조용)입니다. 공백이 포함되지 않은 문자열 값일 수 있습니다.

- `status[*]`: 내러티브의 상태 - 내러티브가 완전히 생성되었는지(정의된 데이터만 또는 확장 기능도 포함), 아니면 사람이 작성했으며 추가 데이터가 포함될 수 있는지 여부

필수 속성

- `id`

- `type`

HL7 표준의 원래 버전 4.3에서 매핑된 데이터 모델입니다. 원래 속성인 `-type-`은 NGSI의 필수 유형과의 충돌로 인해 `-hl7type-`으로 이름이 변경되었습니다. 그 외에도 다른 사소한 수정이 수행되었습니다. 주제 루트의 <https://github.com/smart-data-models/dataModel.HL7/blob/master/README.md> 참조

속성에 대한 데이터 모델 설명

알파벳순으로 정렬(자세한 내용을 보려면 클릭)

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

```

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

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        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'

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

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        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:

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

```

```

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

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```

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

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        maxDosePerAdministration:
          description: Upper limit on medication per administration
          type: string
        maxDosePerLifetime:
          description: Upper limit on medication per lifetime of the
patient
          type: string
        maxDosePerPeriod:
          description: Upper limit on medication per unit of time
          type: string
        method:
          description: Technique for administering medication
          type: string
        modifierExtension:
          description: |-  

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

```

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

May be used to represent additional information that is not  

part of the basic definition of the element and that modifies the understanding of  

the element in which it is contained and/or the understanding of the containing  

element's descendants. Usually modifier elements provide negation or qualification.  

To make the use of extensions safe and manageable, there is a strict set of  

governance applied to the definition and use of extensions. Though any implementer  

can define an extension, there is a set of requirements that SHALL be met as part  

of the definition of the extension. Applications processing a resource are required  

to check for modifier extensions.  

Modifier extensions SHALL NOT change the meaning of any  

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

modifierExtension itself)
        items:
        type: array
        repeat:
        description: A set of rules that describe when the event is
scheduled
        type: string
        type: object

```

```

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

```



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

```
        id:
          description: Unique id 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
```



```

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

```

```

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

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```

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

```

```

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

```

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

```

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

```

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

```

```

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

```

```

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

```

referenced by the knowledge module and must be supported by the consumer in order to obtain an effective evaluation. This does not mean that a value is required for this element, only that the consuming system must understand the element and be able to provide values for it if they are available. \n\nThe value of `mustSupport` SHALL be a FHIRPath resolvable on the type of the `DataRequirement`. The path SHALL consist only of identifiers, constant indexers, and `.resolve()` (see the [Simple FHIRPath Profile](fhirpath.html#simple) for full details)"

```

    items:
      type: array
    profile:
      description: 'The profile of the required data, specified as the uri of the profile definition'
      items:
        type: array
      sort:
        description: Specifies the order of the results to be returned
        items:
          type: array
        subjectCodeableConcept:
          description: 'The intended subjects of the data requirement. If this element is not provided, a Patient subject is assumed'
          type: string
        subjectReference:
          description: 'The intended subjects of the data requirement. If this element is not provided, a Patient subject is assumed'
          type: string
        type:
          description: 'The type of the required data, specified as the type name of a resource. For profiles, this value is set to the type of the base resource of the profile'
          type: string
          type: object
        valueDate:
          description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
          pattern: ^([0-9]([0-9]([0-9][1-9]|[-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]|[-9]0)|[1-9]00)|[1-9]000)(-[0[1-9]|1[0-2])(-(0[1-9]|1[2][0-9]|3[0-1])(T|[01][0-9]|2[0-3]):[0-5][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

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        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

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internal references). This may be any string value that does not contain spaces
    type: string
    system:
        description:
The identification of the system that provides the coded form of the unit
    type: string
    unit:
        description: A human-readable form of the unit
        type: string
    value:
        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
    type: string
    type: object
    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:

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

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```

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

```

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        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

```

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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

```

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        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

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

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

```

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        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

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

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

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

```

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

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

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

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

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

```

```

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

```

```

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

```

```

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

```

```

        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
        system:
        description:
The identification of the system that provides the coded form of the unit
        type: string
        unit:
        description: A human-readable form of the unit
        type: string
        value:
        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
        type: string
        type: object
valueDosage:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
properties:
        _asNeededBoolean:
            description: Extensions for asNeededBoolean
            type: string
        _patientInstruction:
            description: Extensions for patientInstruction
            type: string
        _sequence:
            description: Extensions for sequence
            type: string
        _text:
            description: Extensions for text
            type: string
        additionalInstruction:
            description:
Supplemental instructions to the patient on how to take the medication (e.g. with
meals or take half to one hour before food) or warnings for the patient about the
medication (e.g. may cause drowsiness or avoid exposure of skin to direct sunlight
or sunlamps)
            items:
            type: array
        asNeededBoolean:
            description: 'Indicates whether the Medication is only taken
when needed within a specific dosing schedule (Boolean option), or it indicates
the precondition for taking the Medication (CodeableConcept)'
            pattern: ^true|false$  

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

```

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

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

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

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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:

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

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

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

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

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

```

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

```

```

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

```

```

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

```

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

```

    items:
      type: array
    hash:
      description: The calculated hash of the data using SHA-1.
    Represented using base64
      type: string
    id:
      description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
      type: string
    language:
      description: The human language of the content. The value can be any valid value according to BCP 47
      type: string
    size:
      description: 'The number of bytes of data that make up this attachment (before base64 encoding, if that is done)'
      type: string
    title:
      description: A label or set of text to display in place of the data
      type: string
    url:
      description: A location where the data can be accessed
      type: string
    type: object
  valueBase64Binary:
    description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^(\s*([0-9a-zA-Z\+/-])\{4\}\s*)+$
    type: string
  valueBoolean:
    description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^true|false$  

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

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

    type: string
  valueCodeableConcept:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      text:
        description: Extensions for text
        type: string
      coding:
        description: A reference to a code defined by a terminology system
        items:
          type: array
        extension:
          description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
            items:
              type: array
            id:
              description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
              type: string
            text:
              description: A human language representation of the concept as seen/selected/uttered by the user who entered the data and/or which represents the intended meaning of the user
              type: string
            type: object
  valueCodeableReference:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
```

```

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

```

```

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

```

```

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

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

```

```

        type: array
subjectCodeableConcept:
    description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
        type: string
subjectReference:
    description: 'The intended subjects of the data requirement.
If this element is not provided, a Patient subject is assumed'
        type: string
type:
    description: 'The type of the required data, specified as the
type name of a resource. For profiles, this value is set to the type of the base
resource of the profile'
        type: string
type: object
valueDate:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|1[2-9]|0[0-9]|3[0-1]))?)?$
        type: string
valueDateTime:
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]|1[2-9]|0[0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][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

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

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        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)'

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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'

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

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

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        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:

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                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:

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

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

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        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'

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

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

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

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

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

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        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
        valueCodeableConcept:
        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
        type: string
        valueQuantity:
        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
        type: string
        valueRange:
        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
        type: string
        valueReference:
        description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
        type: string
        required:
        - code
        type: object
        valueUuid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$

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

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

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

```

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

```

```

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

```

```

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

```

```

Represented using base64
    type: string
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
        language:
            description: The human language of the content. The value can
be any valid value according to BCP 47
            type: string
            size:
                description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
                type: string
            title:
                description: A label or set of text to display in place of the
data
                type: string
            url:
                description: A location where the data can be accessed
                type: string
            type: object
            valueBase64Binary:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^(\s*([0-9a-zA-Z+/=])\{4}\s*)+$
                type: string
            valueBoolean:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^true|false$*
                type: boolean
            valueCanonical:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^S*$
                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]|1-90)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-([0-9]|1[2-0-9]|3[0-1]))?)?$$
            type: string
            valueDateTime:
              description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
              pattern: '^([0-9]([0-9]([0-9][1-9]|1-90)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-([0-9]|1[2-0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|([+|-])([0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?$$
              type: string
              valueDecimal:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: '^-(0|[1-9][0-9]*)(\.[0-9]+)?([eE][+]?[0-9]+)?$'
                type: number
                valueDistance:
                  additionalProperties: false
                  description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                  properties:
                    _code:
                      description: Extensions for code
                      type: string
                    _comparator:
                      description: Extensions for comparator
                      type: string
                    _system:
                      description: Extensions for system
                      type: string
                    _unit:
                      description: Extensions for unit
                      type: string
                    _value:
                      description: Extensions for value
                      type: string
                    code:
                      description: A computer processable form of the unit in some
unit representation system
                      type: string
                    comparator:
                      description: 'How the value should be understood and
represented - whether the actual value is greater or less than the stated value
due to measurement issues; e.g. if the comparator is <, then the real value is <
stated value'
                      enum:
                        - <
                        - <=
                        - '>='
                        - >
                    extension:
                      description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                      items:
                        type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      type: string
                    system:
                      description:
                        The identification of the system that provides the coded form of the unit
                      type: string
                    unit:
                      description: A human-readable form of the unit
                      type: string
                    value:
                      description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
                      type: string
                    type:
                      type: object
                    valueDosage:
                      additionalProperties: false
                      description: 'Value of extension - must be one of a constrained

```

```

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

```

```

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

```

```

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

```

The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the family name of a son is the first name of his father

```

                type: string

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

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

```

```

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

```

```

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

```

```

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

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

```

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

```

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

```

```

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

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```

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

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

    type: string
  valueCode:

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

```

```

        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-  

        (0[1-9]|1[0-2])-([01-9]|1[1-2][0-9]|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: ^-?([0-9]|([1-9][0-9]*))$  

                type: number  

            valueMarkdown:  

                description: 'Value of extension - must be one of a constrained  

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

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

                type: string  

            valueMoney:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueObjectId:  

                description: 'Value of extension - must be one of a constrained  

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

                pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$  

                type: string  

            valueParameterDefinition:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valuePeriod:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valuePositiveInt:  

                description: 'Value of extension - must be one of a constrained  

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

                pattern: ^[1-9][0-9]*$  

                type: number  

            valueQuantity:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueRange:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueRatio:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueRatioRange:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueReference:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueRelatedArtifact:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueSampledData:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueSignature:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueString:  

                description: 'Value of extension - must be one of a constrained  

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

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

                type: string  

            valueTime:  

                description: 'Value of extension - must be one of a constrained  

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

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

                type: string  

            valueTiming:  

                description: 'Value of extension - must be one of a constrained  

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

                type: string  

            valueTriggerDefinition:  

                description: 'Value of extension - must be one of a constrained  

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

```

```

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

```

```

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

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

```

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

```

```

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

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

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

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

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

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

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

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

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

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

```

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

```

```

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

```

```

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

```

```

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

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

```

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

          The expected type of the target of the reference. If both Reference.type and Reference.reference are populated and Reference.reference is a FHIR URL, both SHALL be consistent.
        type: string
        type: object
        authorString:
          description: The individual responsible for making the annotation
        pattern: '^[ \r\n\t\$]+$'
        type: string
        extension:
          description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
          items:
            type: string
            type: array
          id:
            description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\$]+$'
            type: string
          text:
            description: The text of the annotation in markdown format
            pattern: '^[ \r\n\t\$]+$'
            type: string
          time:
            description: Indicates when this particular annotation was made
            pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)(-[0[1-9]|1[0-2])(-0[1-9]|1[2-9][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)?$
            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'

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

```

```

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

```

Represented using base64

```

        type: string
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\$]+$'
        type: string
    language:
        description: The human language of the content. The value can be
any valid value according to BCP 47
        pattern: '^[\s]+(\s[\^s]+)*$'
        type: string
    size:
        description: 'The number of bytes of data that make up this
attachment (before base64 encoding, if that is done)'
        pattern: '^[0]|([1-9][0-9]*)$'
        type: number
    title:
        description: A label or set of text to display in place of the
data
        pattern: '^[ \r\n\t\$]+$'
        type: string
    url:
        description: A location where the data can be accessed
        pattern: '^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\$]+$'
      type: string
    text:
      description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
      pattern: '^[ \r\n\t\$]+$'
      type: string
    type:
      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:
        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:
          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
          pattern: '^[ \r\n\t\$]+$'
          type: string
        reference:
          additionalProperties: false
          description: A reference to a resource the provides exact details
about the information being referenced
          properties:
            _display:
              description: Extensions for display
              type: string
            _reference:
              description: Extensions for reference
              type: string
            _type:
              description: Extensions for type
              type: string
            display:
              description: Plain text narrative that identifies the resource
in addition to the resource reference
              type: string
            extension:

```

```

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

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

```

```

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

```

```

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

```

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

```

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

```

```

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

```

```

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

```

```

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

```

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

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

```

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

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

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

```

FHIR URL, both SHALL be consistent.

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

```

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

```

```

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

```

```

    currency:
      description: ISO 4217 Currency Code
      pattern: ^[\s]+(\s[\s]+)*$  

      type: string
    extension:
      description: 'May be used to represent additional information that  

is not part of the basic definition of the element. To make the use of extensions  

safe and manageable, there is a strict set of governance applied to the  

definition and use of extensions. Though any implementer can define an extension,  

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

extension'
      items:
        type: string
        type: array
      id:
        description: Unique id for the element within a resource (for  

internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\$]+'
        type: string
      value:
        description: Numerical value (with implicit precision)
        pattern: ^-?(0|[1-9][0-9]*)((.[0-9]+)?([eE][+-]?[0-9]+)?$)
        type: number
        type: object
      valueOid:
        description: 'Value of extension - must be one of a constrained set of  

the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$  

        type: string
      valueParameterDefinition:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained set of  

the data types (see [Extensibility](extensibility.html) for a list)'
      properties:
        _documentation:
          additionalProperties: false
          description: Extensions for documentation
        properties:
          extension:
            description: 'May be used to represent additional information  

that is not part of the basic definition of the element. To make the use of  

extensions safe and manageable, there is a strict set of governance applied to  

the definition and use of extensions. Though any implementer can define an  

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

definition of the extension'
            items:
              type: string
              type: array
            id:
              description: Unique id for the element within a resource (for  

internal references). This may be any string value that does not contain spaces
              type: string
            type: object
          _max:
            additionalProperties: false
            description: Extensions for max
            properties:
              extension:
                description: 'May be used to represent additional information  

that is not part of the basic definition of the element. To make the use of  

extensions safe and manageable, there is a strict set of governance applied to  

the definition and use of extensions. Though any implementer can define an  

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

definition of the extension'
                items:
                  type: string
                  type: array
                id:
                  description: Unique id for the element within a resource (for  

internal references). This may be any string value that does not contain spaces
                  type: string
                type: object
              _min:
                additionalProperties: false
                description: Extensions for min
                properties:
                  extension:
                    description: 'May be used to represent additional information  

that is not part of the basic definition of the element. To make the use of  

extensions safe and manageable, there is a strict set of governance applied to  

the definition and use of extensions. Though any implementer can define an  

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

definition of the extension'
                    items:
                      type: string
                      type: array

```

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

```

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

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

```

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

```

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```



```

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

```

```

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

```



```

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

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

        type: string
      targetFormat:
        description:  

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

        type: string
      type:
        description: An indication of the reason that the entity signed
        this document. This may be explicitly included as part of the signature information
        and can be used when determining accountability for various actions concerning the
        document
      items:
        type: string
        type: array
      when:
        description: When the digital signature was signed
        pattern: ^([0-9]([0-9]([0-9][1-9])[1-9]0|[1-9]00)|[1-9]000)-  

        ([0-9]([1-9]([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-usuable description of
        the identity that signed (e.g. the signature used their private key)

```

```

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

```

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

```

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

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        - 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

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

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

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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

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        - 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

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

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        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
        system:
          description:
            The identification of the system that provides the coded form of the unit
          type: string
        unit:
          description: A human-readable form of the unit
          type: string
        value:
          description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
          type: string
          type: object
        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 a
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'

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        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-nsg1:
            type: Property
          guarantor:
            description: The parties responsible for balancing the account if other
payment options fall short
          items:
            additionalProperties: false
            properties:
              _onHold:
                additionalProperties: false
                description: Extensions for onHold
                properties:
                  extension:
                    description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                    items:
                      type: string
                      type: array
                    id:
                      description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                      pattern: '^[ \r\n\t\$]+$'
                      type: string
                      type: object
                    extension:
                      description: 'May be used to represent additional information that is
not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                      items:
                        additionalProperties: false
                        properties:
                          _url:
                            description: Extensions for url
                            type: string
                          _valueBase64Binary:
                            description: Extensions for valueBase64Binary
                            type: string
                          _valueBoolean:
                            description: Extensions for valueBoolean
                            type: string
                          _valueCanonical:
                            description: Extensions for valueCanonical
                            type: string
                          _valueCode:
                            description: Extensions for valueCode
                            type: string

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

```

```

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

```

```

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

        type: string  

        valueIdentifier:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueInstant:  

            description: 'Value of extension - must be one of a constrained  

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

            pattern: ^([0-9]([0-9]([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)-  

(0[1-9]|1[0-2])-([01-9])|([1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]  

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

            type: string  

        valueInteger:  

            description: 'Value of extension - must be one of a constrained  

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

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

            type: number  

        valueMarkdown:  

            description: 'Value of extension - must be one of a constrained  

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

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

            type: string  

        valueMoney:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueOid:  

            description: 'Value of extension - must be one of a constrained  

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

            pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+\$  

            type: string  

        valueParameterDefinition:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valuePeriod:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valuePositiveInt:  

            description: 'Value of extension - must be one of a constrained  

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

            pattern: ^[1-9][0-9]*\$  

            type: number  

        valueQuantity:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueRange:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueRatio:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueRatioRange:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueReference:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueRelatedArtifact:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueSampledData:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueSignature:  

            description: 'Value of extension - must be one of a constrained  

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

            type: string  

        valueString:  

            description: 'Value of extension - must be one of a constrained  

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

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

            type: string  

        valueTime:  

            description: 'Value of extension - must be one of a constrained  

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

            pattern: ^([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\..

```

```

[0-9]+)?$  

    type: string  

    valueTiming:  

        description: 'Value of extension - must be one of a constrained  

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

        type: string  

    valueTriggerDefinition:  

        description: 'Value of extension - must be one of a constrained  

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

        type: string  

    valueUnsignedInt:  

        description: 'Value of extension - must be one of a constrained  

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

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

        type: number  

    valueUri:  

        description: 'Value of extension - must be one of a constrained  

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

        pattern: ^\$*$  

        type: string  

    valueUrl:  

        description: 'Value of extension - must be one of a constrained  

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

        pattern: ^\$*$  

        type: string  

    valueUsageContext:  

        description: 'Value of extension - must be one of a constrained  

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

        type: string  

    valueUuid:  

        description: 'Value of extension - must be one of a constrained  

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

        pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]  

{4}-[0-9a-f]{12}$  

        type: string  

        type: object  

        type: array  

    id:  

        description: Unique id for the element within a resource (for internal  

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

        pattern: ^[\r\n\t\$]+$  

        type: string  

    modifierExtension:  

        description: |-  

            May be used to represent additional information that is not part of  

the basic definition of the element and that modifies the understanding of the  

element in which it is contained and/or the understanding of the containing  

element's descendants. Usually modifier elements provide negation or qualification.  

To make the use of extensions safe and manageable, there is a strict set of  

governance applied to the definition and use of extensions. Though any implementer  

can define an extension, there is a set of requirements that SHALL be met as part  

of the definition of the extension. Applications processing a resource are required  

to check for modifier extensions.  

            Modifier extensions SHALL NOT change the meaning of any elements on  

Resource or DomainResource (including cannot change the meaning of  

modifierExtension itself)
        items:  

        additionalProperties: false  

        properties:  

        _url:  

            description: Extensions for url  

            type: string  

        _valueBase64Binary:  

            description: Extensions for valueBase64Binary  

            type: string  

        _valueBoolean:  

            description: Extensions for valueBoolean  

            type: string  

        _valueCanonical:  

            description: Extensions for valueCanonical  

            type: string  

        _valueCode:  

            description: Extensions for valueCode  

            type: string  

        _valueDate:  

            description: Extensions for valueDate  

            type: string  

        _valueDateTime:  

            description: Extensions for valueDateTime  

            type: string  

        _valueDecimal:  

            description: Extensions for valueDecimal  

            type: string  

        _valueId:  

            description: Extensions for valueId  

            type: string

```

```

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

```

```

        type: string
    valueCodeableConcept:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueCodeableReference:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueCoding:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueContactDetail:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueContactPoint:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueContributor:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueCount:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueDataRequirement:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        type: string
    valueDate:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]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

```

```

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

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```

set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^[0]|([1-9][0-9]*$)
    type: number
    valueUri:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\$*
    type: string
    valueUrl:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\$*
    type: string
    valueUsageContext:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    type: string
    valueUuid:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]
{4}-[0-9a-f]{12}\$*
        type: string
        type: object
        type: array
    onHold:
        description:
A guarantor may be placed on credit hold or otherwise have their role temporarily
suspended
        pattern: ^true|false\$
        type: boolean
    party:
        additionalProperties: false
        description: The entity who is responsible
    properties:
        _display:
            additionalProperties: false
            description: Extensions for display
        properties:
            extension:
                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                items:
                    type: string
                    type: array
            id:
                description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                type: string
            type:
                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:
                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

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

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

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

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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:

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

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

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

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

```

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

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

```
        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
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        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

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

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

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

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        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

```

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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)'

```

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

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        pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-[0[1-9]|1[0-2])-(0[1-9]|1[2-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][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

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

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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

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

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

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```

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

```

```

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

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

```

```

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

```

```

        - code
        type: object
        valueUuid:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$

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

```

```

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

```

```

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

```

```

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

```

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

```

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

```

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

```

```

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

```

```

        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
            type: object
          coding:
            description: A reference to a code defined by a terminology
system
          items:
            type: string
            type: array
          extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
            items:
              type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              pattern: '^[ \r\n\t\$]+$'
              type: string
            text:
              description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
              pattern: '^[ \r\n\t\$]+$'
              type: string
            type: object
          use:
            description: The purpose of this identifier
          enum:
            - usual
            - official
            - temp
            - secondary
            - old
          value:
            description: The portion of the identifier typically relevant to the
user and which is unique within the context of the system
            pattern: '^[ \r\n\t\$]+$'
            type: string
            type: object
          type: array
          x-nsgsi:
            type: Property
          implicitRules:
            description: 'A reference to a set of rules that were followed when the
resource was constructed, and which must be understood when processing the
content. Often, this is a reference to an implementation guide that defines the
special rules along with other profiles etc'
            pattern: '^S*$'
            type: string
          x-nsgsi:
            type: Property
          language:
            description: The base language in which the resource is written
            pattern: '^[^\s]+(\s[^\s]+)*$'
            type: string
          x-nsgsi:
            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: 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: 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:
            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:
        enum:
            - MultiPolygon
    type: string
required:
- type
- coordinates
title: GeoJSON MultiPolygon
type: object
x-ngsi:
    type: GeoProperty
x-ngsi:
    type: GeoProperty
meta:
    additionalProperties: false
    description: The metadata about the resource. This is content that is
maintained by the infrastructure. Changes to the content might not always be
associated with version changes to the resource
properties:
    _lastUpdated:
        additionalProperties: false
        description: Extensions for lastUpdated
    properties:
        extension:
            description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'

```

```

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

```

```

        valueAge:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueAnnotation:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueAttachment:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueBase64Binary:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^(\s*([0-9a-zA-Z\+/-])\{4\}\s*)+$
                type: string
        valueBoolean:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^true|false$*
                type: boolean
        valueCanonical:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^\$S*$
                type: string
        valueCode:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^[\^s]+(\s[\^s]+)*$*
                type: string
        valueCodeableConcept:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueCodeableReference:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueCoding:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueContactDetail:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueContactPoint:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueContributor:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueCount:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueDataRequirement:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueDate:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
([0[1-9]|1[0-2]))(-([0[1-9]|1[2][0-9]|3[0-1])))?$
                type: string

```

```

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

```

```

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

```

```

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

```

```

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

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

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    - 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

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

        type: number  

        valueDistance:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valueDosage:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valueDuration:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valueExpression:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valueHumanName:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valueId:  

          description: 'Value of extension - must be one of a  

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

list)'  

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

        type: string  

        valueIdentifier:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valueInstant:  

          description: 'Value of extension - must be one of a  

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

list)'  

        pattern: ^([0-9)([0-9)([0-9][1-9]|([1-9]0)|[1-9]00)|[1-9]000)-  

(0[1-9]|1[0-2])-([01-9]|1[2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]  

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

        type: string  

        valueInteger:  

          description: 'Value of extension - must be one of a  

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

list)'  

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

        type: number  

        valueMarkdown:  

          description: 'Value of extension - must be one of a  

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

list)'  

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

        type: string  

        valueMoney:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valueOID:  

          description: 'Value of extension - must be one of a  

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

list)'  

        pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$  

        type: string  

        valueParameterDefinition:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valuePeriod:  

          description: 'Value of extension - must be one of a  

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

list)'  

        type: string  

        valuePositiveInt:  

          description: 'Value of extension - must be one of a  

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

list)'  

        pattern: ^[1-9][0-9]*$  

        type: number  

        valueQuantity:

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

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

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

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

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

```

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

              The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
            type: string
            description: 'The 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
        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:

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

```

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

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

```

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

```

```

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

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changed
  pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)-(0[1-9]|1[0-2])-(0[1-9]|1[1-2][0-9]|3[0-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|60)(\.[0-9]+)?(Z|(\+|-))((0[0-9]|1[0-3]):[0-5][0-9]|14:00)$
    type: string
  profile:
    description: 'A list of profiles (references to [[[StructureDefinition]]] resources) that this resource claims to conform to. The URL is a reference to [[[StructureDefinition.url]]]'
      items:
        pattern: ^\S*$
        type: string
        type: array
      security:
        description:
          Security labels applied to this resource. These tags connect specific resources to the overall security policy and infrastructure
        items:
          additionalProperties: false
          properties:
            _code:
              additionalProperties: false
              description: Extensions for code
              properties:
                extension:
                  description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
                    items:
                      type: array
                    id:
                      description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
                      type: string
                    type: object
                  _display:
                    additionalProperties: false
                    description: Extensions for display
                    properties:
                      extension:
                        description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
                          items:
                            type: array
                          id:
                            description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
                            type: string
                          type: object
                        _system:
                          additionalProperties: false
                          description: Extensions for system
                          properties:
                            extension:
                              description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
                                items:
                                  type: array
                                id:
                                  description: Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces
                                  type: string
                                type: object
                              _userSelected:
                                additionalProperties: false
                                description: Extensions for userSelected
                                properties:
                                  extension:
                                    description: 'May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension'
                                      items:

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

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

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

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

```

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

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

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

```

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

```

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

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

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

```

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

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

```

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

```

```

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

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

```

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

```

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

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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

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```

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

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

```

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

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        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

```



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        description: 'Code filters specify additional constraints on the
data, specifying the value set of interest for a particular element of the data.
Each code filter defines an additional constraint on the data, i.e. code filters
are AND''ed, not OR''ed'
        items:
          type: string
          type: array
        dateFilter:
          description: 'Date filters specify additional constraints on the
data in terms of the applicable date range for specific elements. Each date filter
specifies an additional constraint on the data, i.e. date filters are AND''ed, not
OR''ed'
        items:
          type: string
          type: array
        extension:
          description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
          type: string
          type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          pattern: '^[ \r\n\t\$]+$'
          type: string
        limit:
          description: Specifies a maximum number of results that are
required (uses the _count search parameter)
          pattern: ^[1-9][0-9]*$*
          type: number
        mustSupport:
          description: "Indicates that specific elements of the type are
referenced by the knowledge module and must be supported by the consumer in order
to obtain an effective evaluation. This does not mean that a value is required for
this element, only that the consuming system must understand the element and be
able to provide values for it if they are available. \n\nThe value of mustSupport
SHALL be a FHIRPath 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

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        text:
          description: A human language representation of the concept as
seen/selected/uttered by the user who entered the data and/or which represents the
intended meaning of the user
            type: string
            type: object
            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]+)*$
```

```

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:
            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

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

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

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        type: string
        type: array
        id:
          description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
          type: string
          system:
            description:
              The identification of the system that provides the coded form of the unit
              type: string
              unit:
                description: A human-readable form of the unit
                type: string
                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:

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

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

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

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

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        description: A human-readable form of the unit
        pattern: '^[\r\n\t\$]+'
        type: string
      value:
        description: The value of the measured amount. The value includes
an implicit precision in the presentation of the value
        pattern: ^-?(0|[1-9][0-9]*)((.[0-9]+)?([eE][+-]?[0-9]+)?$)
        type: number
      type: object
    valueExpression:
      additionalProperties: false
      description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
      _description:
        additionalProperties: false
        description: Extensions for description
      properties:
        extension:
          description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
          items:
            type: string
            type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          type: object
        _expression:
          additionalProperties: false
          description: Extensions for expression
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
              type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          type: object
        _language:
          additionalProperties: false
          description: Extensions for language
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
              type: array
          id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
          type: object
        _name:
          additionalProperties: false
          description: Extensions for name
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
              type: array
          id:
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        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        type: string
        type: object
      _reference:
        additionalProperties: false
        description: Extensions for reference
        properties:
          extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
              type: string
              type: array
            id:
              description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
              type: string
              type: object
              description:
                description: 'A brief, natural language description of the
condition that effectively communicates the intended semantics'
                pattern: '^[ \r\n\t\$]+$'
                type: string
                expression:
                  description:
                    An expression in the specified language that returns a value
                    pattern: '^[ \r\n\t\$]+$'
                    type: string
                    extension:
                      description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
                      items:
                        type: string
                        type: array
                      id:
                        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
                        pattern: '^[ \r\n\t\$]+$'
                        type: string
                        language:
                          description: The media type of the language for the expression
                        enum:
                          - text/cql
                          - text/fhirpath
                          - application/x-fhir-query
                          - text/cql-identifier
                          - text/cql-expression
                        name:
                          description: A short name assigned to the expression to allow for
multiple reuse of the expression in the context where it is defined
                          pattern: ^[A-Za-z0-9\-\.]{1,64}$
                          type: string
                        reference:
                          description: A URI that defines where the expression is found
                          pattern: ^\$*
                          type: string
                        type: object
                      valueHumanName:
                        additionalProperties: false
                        description: 'Value of extension - must be one of a constrained set of
the data types (see [Extensibility](extensibility.html) for a list)'
                        properties:
                          _family:
                            additionalProperties: false
                            description: Extensions for family
                            properties:
                              extension:
                                description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
                                items:
                                  type: string
                                  type: array
                                id:

```

```

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

```

```

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

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

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

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

```

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

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

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

```

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

```

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

```

```

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

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```

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

```

```

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

```

```

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

```

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

```

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

```

```

description: The type of relationship to the related artifact
enum:
  - documentation
  - justification
  - citation
  - predecessor
  - successor
  - derived-from
  - depends-on
  - composed-of
url:
  description: A url for the artifact that can be followed to access
the actual content
  pattern: ^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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

        - text/cql-expression
    name:
        description: A short name assigned to the expression to allow
for multiple reuse of the expression in the context where it is defined
        type: string
    reference:
        description: A URI that defines where the expression is
found
        type: string
    type: object
    data:
        description: 'The triggering data of the event (if this is a data
trigger). If more than one data requirement is specified, then all the data
requirements must be true'
        items:
            type: string
            type: array
    extension:
        description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
        items:
            type: string
            type: array
    id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
        pattern: '^[ \r\n\t\$]+'
        type: string
    name:
        description: 'A formal name for the event. This may be an absolute
URI that identifies the event formally (e.g. from a trigger registry), or a simple
relative URI that identifies the event in a local context'
        pattern: '^[ \r\n\t\$]+'
        type: string
    timingDate:
        description: The timing of the event (if this is a periodic
trigger)
        pattern: ^([0-9]([0-9]([0-9][1-9]| [1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]| [1-2][0-9]|3[0-1]))?)?$
        type: string
    timingDateTime:
        description: The timing of the event (if this is a periodic
trigger)
        pattern: ^([0-9]([0-9]([0-9][1-9]| [1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2])(-(0[1-9]| [1-2][0-9]|3[0-1])(T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?Z|(\+|-)((0[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\$]+$'
            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:
            type: object
          required:
            - code
          type:
            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:
            type: object
          type:
            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\$]+'
            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[2-9]|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-|[30-1])T([01][0-9]|2[0-3]):[0-5][0-9]:([0-5]
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00))$
                                    type: string
                                    valueInteger:
                                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                        pattern: ^-?([0]|([1-9][0-9]*))$
                                        type: number
                                        valueMarkdown:
                                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                            pattern: '^[\r\n\t\$]+'
                                            type: string
                                            valueMoney:
                                                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                type: string
                                                valueOid:
                                                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                    pattern: ^urn:oid:[0-2](\.(0|[1-9][0-9]*))+$
                                                    type: string
                                                    valueParameterDefinition:
                                                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                        type: string
                                                        valuePeriod:
                                                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                            type: string
                                                            valuePositiveInt:
                                                                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                                pattern: ^[1-9][0-9]*$*
                                                                type: number
                                                                valueQuantity:
                                                                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'

```

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

```
pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}
```

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

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

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

```

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

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

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

```

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

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

```

```

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

```

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

```

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        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:

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        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

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

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

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

```

```

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

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

```

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

```

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        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

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

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        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:

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        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:

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        type: array
      id:
        description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
      type: string
      system:
        description:
      The identification of the system that provides the coded form of the unit
      type: string
      unit:
        description: A human-readable form of the unit
      type: string
      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

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        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
        artifact:
          enum:
            - documentation
            - justification
            - citation
            - predecessor
            - successor
            - derived-from
            - depends-on
            - composed-of
          url:
            description: A url for the artifact that can be followed to access the actual content
            type: string
          type: object
        valueSampledData:
          additionalProperties: false
          description: 'Value of extension - must be one of a constrained set of the data types (see [Extensibility](extensibility.html) for a list)'
          properties:
            _data:
              description: Extensions for data
              type: string
            _dimensions:
              description: Extensions for dimensions
              type: string
            _factor:
              description: Extensions for factor
              type: string
            _lowerLimit:
              description: Extensions for lowerLimit
              type: string
            _period:
              description: Extensions for period
              type: string
            _upperLimit:
              description: Extensions for upperLimit
              type: string
            data:
              description: 'A series of data points which are decimal values separated by a single space (character u20). The special values E (error), L (below detection limit) and U (above detection limit) can also be used in place of a decimal value'
              type: string
            dimensions:

```

```

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

```

```

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

```

```

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

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```

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

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```

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

```

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
                        type: object

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```

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:

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

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

```

```

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

```

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

```

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

```

```

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

```

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

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



```

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

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        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        type: string
        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\$]+'
          type: string
          type: object
        _reference:
          additionalProperties: false
          description: Extensions for reference
          properties:
            extension:
              description: 'May be used to represent additional information that
is not part of the basic definition of the element. To make the use of extensions
safe and manageable, there is a strict set of governance applied to the
definition and use of extensions. Though any implementer can define an extension,
there is a set of requirements that SHALL be met as part of the definition of the
extension'
              items:
                additionalProperties: false
                properties:
                  _url:
                    description: Extensions for url
                    type: string
                  _valueBase64Binary:
                    description: Extensions for valueBase64Binary
                    type: string
                  _valueBoolean:
                    description: Extensions for valueBoolean
                    type: string
                  _valueCanonical:
                    description: Extensions for valueCanonical
                    type: string
                  _valueCode:
                    description: Extensions for valueCode
                    type: string
                  _valueDate:
                    description: Extensions for valueDate
                    type: string
                  _valueDateTime:
                    description: Extensions for valueDateTime
                    type: string
                  _valueDecimal:
                    description: Extensions for valueDecimal
                    type: string
                  _valueId:

```

```

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

            type: boolean
        valueCanonical:

```

```

        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^\$*
        type: string
        valueCode:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
            pattern: ^[\s]+(\s[\^\s]+)*$
            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]:([0-5]-
[0-9]|60)(\.[0-9]+)?(Z|(\+|-)((0[0-9]|1[0-3]):[0-5][0-9]|14:00)))?)??
                                                    type: string
                                                    valueDecimal:
                                                        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                        pattern: ^-?(0|[1-9][0-9]*)(\.[0-9]+)?(([eE][+-]?[0-9]+)?$|
                                                        type: number
                                                        valueDistance:
                                                            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                            type: string
                                                            valueDosage:
                                                                description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                                                                type: string
                                                                valueDuration:
                                                                    description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'

```

```

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

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

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        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

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        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

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

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

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

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

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

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

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        - 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

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

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

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

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

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```

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

```

```

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

```

```

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

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```

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

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        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

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        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

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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

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

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        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:

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

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

```

```

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

```

```

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

```

```

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

```

complete statement of whatever is specified in the structured timing data, and either the code or the data may be used to interpret the Timing, with the exception that .repeat.bounds still applies over the code (and is not contained in the code)'

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


A value that defines the context specified in this context of use. The interpretation of the value is defined by the code

```

        type: string
        valueReference:
            description:

```

A value that defines the context specified in this context of use. The interpretation of the value is defined by the code

```

        type: string
        required:
            - code
        type: object
        valueUuid:
            description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
            pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}$

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

```

```

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

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

```



```

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

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

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seen/selected/uttered by the user who entered the data and/or which represents the intended meaning of the user

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        type: string
      type: object
    use:
      description: The purpose of this identifier
    enum:
      - usual
      - official
      - temp
      - secondary
      - old
    value:
      description: The portion of the identifier typically relevant to the user and which is unique within the context of the system
      pattern: '^[ \r\n\t\$]+$'
      type: string
    type: object
    reference:
      description: "A reference to a location at which the other resource is found. The reference may be a relative reference, in which case it is relative to the service base URL, or an absolute URL that resolves to the location where the resource is found. The reference may be version specific or not. If the reference is not to a FHIR RESTful server, then it should be assumed to be version specific. Internal fragment references (start with '#') refer to contained resources"
      pattern: '^[ \r\n\t\$]+$'
      type: string
    type:
      description: |-
        The expected type of the target of the reference. If both Reference.type and Reference.reference are populated and Reference.reference is a FHIR URL, both SHALL be consistent.
        The type is the Canonical URL of Resource Definition that is the type this reference refers to. References are URLs that are relative to http://hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models (and can only be used in references in logical models, not resources)
      pattern: '^S*$'
      type: string
    type: object
    x-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:

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

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        valueAttachment:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueBase64Binary:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^(\s*([0-9a-zA-Z\+/-])\{4\}\s*)+$
                type: string
        valueBoolean:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^true|false$*
                type: boolean
        valueCanonical:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^\S*$
                type: string
        valueCode:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^[\^s]+(\s[\^s]+)*$
                type: string
        valueCodeableConcept:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueCodeableReference:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueCoding:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueContactDetail:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueContactPoint:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueContributor:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueCount:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueDataRequirement:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                type: string
        valueDate:
            description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
                pattern: ^([0-9]([0-9]([0-9][1-9]|[1-9]0)|[1-9]00)|[1-9]000)(-
(0[1-9]|1[0-2]))(-(0[1-9]|1[2-9]|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

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

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

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

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

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



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

```

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

```

```

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

```

```

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

```

```

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

```

seen/selected/uttered by the user who entered the data and/or which represents the intended meaning of the user

```

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

```

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

```

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

```

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

```

                                                        type: string
                                                        userSelected:
                                                            description: Indicates that this coding was chosen by a user
directly - e.g. off a pick list of available items (codes or displays)
                                                            type: string
                                                            version:
                                                                description: 'The version of the code system which was used
when choosing this code. Note that a well-maintained code system does not need the

```

version reported, because the meaning of codes is consistent across versions. However this cannot consistently be assured, and when the meaning is not guaranteed to be consistent, the version SHOULD be exchanged'

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

```

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

```

```

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

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```

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

```

```

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

```

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

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

```

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

```

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

```

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

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

```

```

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

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

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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:

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

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

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

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

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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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

The expected type of the target of the reference. If both Reference.type and Reference.reference are populated and Reference.reference is a FHIR URL, both SHALL be consistent.

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

```

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

```

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

```

```

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

The expected type of the target of the reference. If both  

Reference.type and Reference.reference are populated and Reference.reference is a  

FHIR URL, both SHALL be consistent.

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

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

            type: boolean
        valueCanonical:

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        description: 'Value of extension - must be one of a
constrained set of the data types (see [Extensibility](extensibility.html) for a
list)'
        pattern: ^\$*
        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]:([0-5]-
[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)'

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

```

```

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

```



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

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

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

```

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

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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 <

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

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

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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

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

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

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internal references). This may be any string value that does not contain spaces
    type: string
    system:
        description:
The identification of the system that provides the coded form of the unit
    type: string
    unit:
        description: A human-readable form of the unit
        type: string
    value:
        description: The value of the measured amount. The value
includes an implicit precision in the presentation of the value
    type: string
    type: object
    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 a
something that is actually exposed as a FHIR instance, but it SHALL point to a
business concept that would be expected to be exposed as a FHIR instance, and that
instance would need to be of a FHIR resource type allowed by the reference'
      type: string
    reference:
      description: "A reference to a location at which the other
resource is found. The reference may be a relative reference, in which case it is
relative to the service base URL, or an absolute URL that resolves to the location
where the resource is found. The reference may be version specific or not. If the
reference is not to a FHIR RESTful server, then it should be assumed to be version
specific. Internal fragment references (start with '#') refer to contained
resources"
      type: string
    type:
      description: |-
        The expected type of the target of the reference. If both
Reference.type and Reference.reference are populated and Reference.reference is a
FHIR URL, both SHALL be consistent.
        The type is the Canonical URL of Resource Definition that is
the type this reference refers to. References are URLs that are relative to http://
hl7.org/fhir/StructureDefinition/ e.g. Patient is a reference to http://hl7.org/
fhir/StructureDefinition/Patient. Absolute URLs are only allowed for logical models
(and can only be used in references in logical models, not resources)
      type: string
    type: object
  valueRelatedArtifact:
    additionalProperties: false
    description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
  properties:
    _citation:
      description: Extensions for citation
      type: string
    _display:
      description: Extensions for display
      type: string
    _label:
      description: Extensions for label
      type: string
    _type:
      description: Extensions for type
      type: string
    url:

```

```

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

```

```

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

```

```

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

May be used to represent additional information that is not  

part of the basic definition of the element and that modifies the understanding of  

the element in which it is contained and/or the understanding of the containing  

element's descendants. Usually modifier elements provide negation or qualification.  

To make the use of extensions safe and manageable, there is a strict set of  

governance applied to the definition and use of extensions. Though any implementer  

can define an extension, there is a set of requirements that SHALL be met as part  

of the definition of the extension. Applications processing a resource are required  

to check for modifier extensions.  

Modifier extensions SHALL NOT change the meaning of any  

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

modifierExtension itself)
        items:
        type: array

```

```

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

```

```

set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^[0]|([1-9][0-9]*)$'
    type: number
    valueUri:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\$*
    type: string
    valueUrl:
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    pattern: ^\$*
    type: string
    valueUsageContext:
        additionalProperties: false
        description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
    properties:
        code:
            description: A code that identifies the type of context being
specified by this usage context
            type: string
        extension:
            description: 'May be used to represent additional information
that is not part of the basic definition of the element. To make the use of
extensions safe and manageable, there is a strict set of governance applied to
the definition and use of extensions. Though any implementer can define an
extension, there is a set of requirements that SHALL be met as part of the
definition of the extension'
            items:
            type: array
        id:
            description: Unique id for the element within a resource (for
internal references). This may be any string value that does not contain spaces
            type: string
        valueCodeableConcept:
            description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
            type: string
            valueQuantity:
            description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
            type: string
            valueRange:
            description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
            type: string
            valueReference:
            description:
A value that defines the context specified in this context of use. The
interpretation of the value is defined by the code
            type: string
            required:
            - code
            type: object
            valueUuid:
                description: 'Value of extension - must be one of a constrained
set of the data types (see [Extensibility](extensibility.html) for a list)'
                pattern: ^urn:uuid:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-
[0-9a-f]{12}\$'
            type: string
            type: object
            type: array
        id:
            description: Unique id for the element within a resource (for internal
references). This may be any string value that does not contain spaces
            pattern: '^[ \r\n\t\$]+\$'
            type: string
        status:
            description: 'The status of the narrative - whether it''s entirely
generated (from just the defined data or the extensions too), or whether a human
authored it and it may contain additional data'
        enum:
            - generated
            - extensions
            - additional
            - empty
        required:
            - div
        type: object
        x-ngsi:
            type: Property
    required:

```

```

    - id
    - type
  type: object
  x-derived-from: http://hl7.org/fhir/R4B/
  x-disclaimer: 'Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the license conditions are met.
Copyleft (c) 2022 Contributors to Smart Data Models Program'
  x-license-url: https://github.com/smart-data-models/dataModel.HL7/blob/master/
Account/LICENSE.md
  x-model-schema: https://smart-data-models.github.io/dataModel.HL7/Account/
schema.json
  x-model-tags: HL7
  x-version: 0.0.1

```

페이지 예시

계정 NGSI-v2 키 값 예시

다음은 키=값으로 JSON-LD 형식의 계정 예제입니다. 이는 옵션=키값을 사용할 때 NGSI-v2와 호환되며 개별 엔티티의 컨텍스트 데이터를 반환합니다.

[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"
  },
  "x-model-schema": "https://smart-data-models.github.io/dataModel.HL7/Account/
schema.json"
}
```

```

"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"
    }
  ]
}
}

```

계정 NGSI-v2 정규화 예제

다음은 정규화된 JSON-LD 형식의 계정 예시입니다. 이는 옵션을 사용하지 않을 때 NGSI-v2와 호환되며 개별 엔티티의 컨텍스트 데이터를 반환합니다.

[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": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
        "code": "PBILLACCT",
        "display": "patient billing account"
      }
    ]
  }
}

```

```

        "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"
            }
        ]
    }
}
}

```

계정 NGSI-LD 키 값 예시

다음은 키 값으로 JSON-LD 형식의 계정 예시입니다. 이는 옵션=키값을 사용할 때 NGSI-LD와 호환되며 개별 엔티티의 컨텍스트 데이터를 반환합니다.

[show/hide example](#)

```
{
  "resourceType": "Account",
  "id": "example",
  "type": "Account",
  "text": {
    "status": "generated",
    "div": "\u003cdiv xmlns\u003d\"http://www.w3.org/1999/xhtml\"\u003eHACC Funded Billing for Peter James Chalmers\u003c/div\u003e"
  },
  "identifier": [
    {
      "system": "urn:oid:0.1.2.3.4.5.6.7",
      "value": "654321"
    }
  ],
  "status": "active",
  "hl7type": {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
        "code": "PBILLACCT",
        "display": "patient billing account"
      }
    ]
  }
}
```

```

        ],
        "text": "patient"
    },
    "name": "HACC Funded Billing for Peter James Chalmers",
    "subject": [
        {
            "reference": "Patient/example",
            "display": "Peter James Chalmers"
        }
    ],
    "servicePeriod": {
        "start": "2016-01-01",
        "end": "2016-06-30"
    },
    "coverage": [
        {
            "coverage": {
                "reference": "Coverage/7546D"
            },
            "priority": 1
        }
    ],
    "owner": {
        "reference": "Organization/hl7"
    },
    "description": "Hospital charges",
    "meta": {
        "tag": [
            {
                "system": "http://terminology.hl7.org/CodeSystem/v3-ActReason",
                "code": "HTEST",
                "display": "test health data"
            }
        ]
    },
    "@context": [
        "https://raw.githubusercontent.com/smart-data-models/dataModel.HL7/master/context.jsonld"
    ]
}

```

계정 NGSI-LD 정규화 예제

다음은 정규화된 JSON-LD 형식의 계정 예시입니다. 이는 옵션을 사용하지 않을 때 NGSI-LD와 호환되며 개별 엔티티의 컨텍스트 데이터를 반환합니다.

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",
        "value": "Account"
    }
}

```

```

    "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"
  ]
}

```

[FAQ 10](#)을 참조하여 규모 단위를 다루는 방법에 대한 답변을 확인하세요.

