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# **Taltioni Web Services API 1.0**

## **Reference**

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# Overview

## Description

This document contains the Web Service description for Taltioni Web Services API 1.0

## Web Services

Name	Description
Taltioni	Taltioni Web Services API 1.0

# Taltioni Web Service

## Description

Taltioni Web Services API 1.0

## Type

SOAP

## Style

Document

## Remarks

Welcome to Taltioni Web Services API 1.0! This document contains descriptions for all operations, elements and attributes of the interface. To make sure you have the correct version of the document, call operation About or see the WSDL file to check the version of the current interface.

Note that all operations and item types are not available for all applications. If you try to access an unauthorized operation or item type, the service will return an access denied response (SOAP fault).

In the content model table column "Occurs" indicates whether the field is required or optional (1..1 = Required, 0..1 = Optional). Column "Nillable?" indicates if the type accepts a null value for the element (null values are not allowed for Boolean, integer and other basic types).

## See Also

Methods | Complex Types | Simple Types | Elements

## Methods: Taltioni

### Description

Descriptions of all Taltioni Web Services operations

### Methods

Name	Description
About	Returns basic information about the service. The operation can be used to test basic connectivity. It can be called without any headers or tokens.
CheckPersonalIdentifier	Checks if the given personal identifier (HETU) is the same as the identifier stored in the Taltioni health record profile. The operation can be used to check that the AccessToken targets the correct person.
CreateHealthRecordProfile	Creates a new health record profile (restricted access, only available for a small number of applications)
DeleteHealthRecordItems	Deletes health record items. Supply the type and id of each item to delete.
GetApplicationInfo	Returns information about your application, including the access rights given to your application.
GetAuthorizationInfo	Returns information about the link between the user and your application.
GetCodes	Gets codes that are used to specify data types, units and other codable values.
GetHealthRecordItem	Gets health record item with the given type and id.
GetHealthRecordItems	Gets health record items according to the given criteria. Note that this operation does not return any binary data.
GetHealthRecordItemsPaged	Gets a specified number of health record items according to the given criteria.
GetHealthRecordItemTypes	Gets detailed metadata on the supported health record item types.
GetHealthRecordProfile	Gets health record profile information. Note that some of the profile fields may not be available for your application.
GetLatestHealthRecordItem	Gets the latest health record item of the given type.
GetUserProfile	Gets the user profile. The user profile can be the same as the health record profile, or the user can be another person that has been authorized to access the health record.
RemoveApplicationAuthorization	Cancels the authorization, i.e. inactivates the link between your application and the user. Note that the user can also cancel the authorization at any time.
StoreHealthRecordItems	Stores health record items. Update will be performed if an item with the given Id is found, otherwise a new item is created.
UpdateHealthRecordProfile	Updates health record profile properties. Important: populate the profile with GetHealthRecordProfile and only update the necessary fields!

### Method: About

**Description**

Returns basic information about the service. The operation can be used to test basic connectivity. It can be called without any headers or tokens.

**Action**

Taltioni.Services/TaltioniAPI/Actions/About

**Style**

Document

**Input (Literal)**

The input of this method is the document element tns:About that is always empty.

**Output (Literal)**

The output of this method is the document element tns:AboutResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:ServiceDescription	xsd:string	0..1	Yes	Service description

**Faults**

Name	Content	Description
ReceiverFault	tns:ReceiverFault	
SenderFault	tns:SenderFault	

**Method: CheckPersonalIdentifier****Description**

Checks if the given personal identifier (HETU) is the same as the identifier stored in the Taltioni health record profile. The operation can be used to check that the AccessToken targets the correct person.

**Action**

Taltioni.Services/TaltioniAPI/Actions/CheckPersonalIdentifier

**Style**

Document

**Input (Literal)**

The input of this method is the document element `tns:CheckPersonalIdentifierRequest` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
<code>tns:PersonalIdentifier</code>	<code>xsd:string</code>	0..1	Yes	Personal identifier (HETU)

**Output (Literal)**

The output of this method is the document element `tns:CheckPersonalIdentifierResponse` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
<code>tns:IsMatch</code>	<code>xsd:boolean</code>	0..1	No	Indicates whether the personal identifiers match; true if the identifier stored in your application is the same as the one stored in Taltioni.

**Faults**

Name	Content	Description
SenderFault	<code>tns:SenderFault</code>	
ReceiverFault	<code>tns:ReceiverFault</code>	

**Method: CreateHealthRecordProfile****Description**

Creates a new health record profile (restricted access, only available for a small number of applications)

**Action**

`Taltioni.Services/TaltioniAPI/Actions/CreateHealthRecordProfile`

**Style**

Document

**Input (Literal)**

The input of this method is the document element `tns:CreateHealthRecordProfileRequest` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Profile	tns4:HealthRecordProfile	0..1	Yes	Health record profile to create

**Output (Literal)**

The output of this method is the document element tns:CreateHealthRecordProfileResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:PersonId	xsd:string	0..1	Yes	Taltioni internal identifier of the health record

**Faults**

Name	Content	Description
ReceiverFault	tns:ReceiverFault	
SenderFault	tns:SenderFault	

**Method: DeleteHealthRecordItems****Description**

Deletes health record items. Supply the type and id of each item to delete.

**Action**

Taltioni.Services/TaltioniAPI/Actions/DeleteHealthRecordItems

**Style**

Document

**Input (Literal)**

The input of this method is the document element tns:DeleteHealthRecordItemsRequest having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecordItems	tns4:ArrayOfItemInfo	0..1	Yes	Health record item list



### Output (Literal)

The output of this method is the document element `tns:DeleteHealthRecordItemsResponse` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
<code>tns:Success</code>	<code>xsd:boolean</code>	0..1	No	Indicates if the items were deleted successfully

### Faults

Name	Content	Description
SenderFault	<code>tns:SenderFault</code>	
ReceiverFault	<code>tns:ReceiverFault</code>	

## Method: GetApplicationInfo

### Description

Returns information about your application, including the access rights given to your application.

### Action

`Taltioni.Services/TaltioniAPI/Actions/GetApplicationInfo`

### Style

Document

### Input (Literal)

The input of this method is the document element `tns:GetApplicationInfoRequest` that is always empty.

### Output (Literal)

The output of this method is the document element `tns:GetApplicationInfoResponse` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
<code>tns:ApplicationInfo</code>	<code>tns4:ApplicationInfo</code>	0..1	Yes	Application information that has been stored in Taltioni

**Faults**

Name	Content	Description
ReceiverFault	tns:ReceiverFault	
SenderFault	tns:SenderFault	

**Method: GetAuthorizationInfo****Description**

Returns information about the link between the user and your application.

**Action**

Taltioni.Services/TaltioniAPI/Actions/GetAuthorizationInfo

**Style**

Document

**Input (Literal)**

The input of this method is the document element tns:GetAuthorizationInfoRequest that is always empty.

**Output (Literal)**

The output of this method is the document element tns:GetAuthorizationInfoResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:AuthorizationInfo	tns4:AuthorizationInfo	0..1	Yes	Information about the connection between your application and the user

**Faults**

Name	Content	Description
ReceiverFault	tns:ReceiverFault	
SenderFault	tns:SenderFault	

**Method: GetCodes****Description**

Gets codes that are used to specify data types, units and other codable values.

**Action**

Taltioni.Services/TaltioniAPI/Actions/GetCodes

**Style**

Document

**Input (Literal)**

The input of this method is the document element tns:GetCodesRequest having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:CodeFilter	tns4:CodeFilter	0..1	Yes	Code filter

**Output (Literal)**

The output of this method is the document element tns:GetCodesResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Codes	tns4:ArrayOfCoded Value	0..1	Yes	Returned codes

**Faults**

Name	Content	Description
ReceiverFault	tns:ReceiverFault	
SenderFault	tns:SenderFault	

**Method: GetHealthRecordItem****Description**

Gets health record item with the given type and id.

**Action**

Taltioni.Services/TaltioniAPI/Actions/GetHealthRecordItem

**Style**

Document

**Input (Literal)**

The input of this method is the document element `tns:GetHealthRecordItemRequest` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
<code>tns:ItemType</code>	<code>xsd:string</code>	0..1	Yes	Health record item type
<code>tns:ItemId</code>	<code>xsd:string</code>	0..1	Yes	Taltioni internal item id (GUID format)
<code>tns:SourceSystem</code>	<code>xsd:string</code>	0..1	Yes	Source system for the data (system of origin)
<code>tns:ItemIdInSourceSystem</code>	<code>xsd:string</code>	0..1	Yes	Identifier of the item in the source system
<code>tns:FilterByApplicationId</code>	<code>xsd:boolean</code>	0..1	No	Request only items created by your application

**Output (Literal)**

The output of this method is the document element `tns:GetHealthRecordItemResponse` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
<code>tns:HealthRecordData</code>	<code>tns4:HealthRecordData</code>	0..1	Yes	Container for health record items

**Faults**

Name	Content	Description
ReceiverFault	<code>tns:ReceiverFault</code>	
SenderFault	<code>tns:SenderFault</code>	

**Remarks**

If the internal Taltioni id of the item is unknown, an alternative way is to supply fields `SourceSystem` and `IdInSourceSystem`. In this case field `Id` can be left empty. This is the only operation that returns binary data, i.e. `HealthRecordFile.Data` binary property is populated. Configure your service to use MTOM for optimal binary data transfer.

**Method: GetHealthRecordItems****Description**

Gets health record items according to the given criteria. Note that this operation does not return any binary data.

**Action**

Taltioni.Services/TaltioniAPI/Actions/GetHealthRecordItems

**Style**

Document

**Input (Literal)**

The input of this method is the document element tns:GetHealthRecordItemsRequest having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:StartDateTime	xsd:dateTime	0..1	Yes	Restricts the results to items created on or after the start date
tns:EndDateTime	xsd:dateTime	0..1	Yes	Indicates the upper limit for the date restriction
tns:ItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types
tns:FilterByApplicationId	xsd:boolean	0..1	No	Request only items created by your application

**Output (Literal)**

The output of this method is the document element tns:GetHealthRecordItemsResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecordData	tns4:HealthRecordData	0..1	Yes	Container for health record items

**Faults**

Name	Content	Description
ReceiverFault	tns:ReceiverFault	
SenderFault	tns:SenderFault	

**Method: GetHealthRecordItemsPaged****Description**

Gets a specified number of health record items according to the given criteria.

**Action**

Taltioni.Services/TaltioniAPI/Actions/GetHealthRecordItemsPaged

**Style**

Document

**Input (Literal)**

The input of this method is the document element tns:GetHealthRecordItemsPagedRequest having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:StartDateTime	xsd:dateTime	0..1	Yes	Restricts the results to items created on or after the start date
tns:EndDateTime	xsd:dateTime	0..1	Yes	Indicates the upper limit for the date restriction
tns:PageSize	xsd:int	0..1	No	Indicates the page size, i.e. number of items to fetch
tns:Page	xsd:int	0..1	No	Indicates the page to fetch, must be a positive number
tns:ItemType	xsd:string	0..1	Yes	Health record item type
tns:FilterByApplicationId	xsd:boolean	0..1	No	Request only items created by your application

**Output (Literal)**

The output of this method is the document element tns:GetHealthRecordItemsPagedResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecordData	tns4:HealthRecordData	0..1	Yes	Container for health record items
tns:ExpectedCount	xsd:int	0..1	No	Expected total number of items for the given criteria

**Faults**

Name	Content	Description
SenderFault	tns:SenderFault	
ReceiverFault	tns:ReceiverFault	

**Remarks**

Can be used for paging item lists. Note that this operation does not return any binary data.

**Method: GetHealthRecordItemTypes****Description**

Gets detailed metadata on the supported health record item types.

**Action**

Taltioni.Services/TaltioniAPI/Actions/GetHealthRecordItemTypes

**Style**

Document

**Input (Literal)**

The input of this method is the document element `tns:GetHealthRecordItemTypesRequest` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:ExcludeObservationTypes	xsd:boolean	0..1	No	Exclude dynamic observation types
tns:ExcludeStaticHealthRecordTypes	xsd:boolean	0..1	No	Exclude static types, like Allergy and Medication

**Output (Literal)**

The output of this method is the document element `tns:GetHealthRecordItemTypesResponse` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:ItemTypes	tns:ArrayOfHealthRecordItemType	0..1	Yes	Item types

**Faults**

Name	Content	Description
SenderFault	tns:SenderFault	
ReceiverFault	tns:ReceiverFault	

## Method: GetHealthRecordProfile

### Description

Gets health record profile information. Note that some of the profile fields may not be available for your application.

### Action

Taltioni.Services/TaltioniAPI/Actions/GetHealthRecordProfile

### Style

Document

### Input (Literal)

The input of this method is the document element tns:GetHealthRecordProfileRequest that is always empty.

### Output (Literal)

The output of this method is the document element tns:GetHealthRecordProfileResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Profile	tns4:HealthRecord Profile	0..1	Yes	Requested health record profile

### Faults

Name	Content	Description
SenderFault	tns:SenderFault	
ReceiverFault	tns:ReceiverFault	

## Method: GetLatestHealthRecordItem

### Description

Gets the latest health record item of the given type.

### Action

Taltioni.Services/TaltioniAPI/Actions/GetLatestHealthRecordItem

### Style

Document



**Input (Literal)**

The input of this method is the document element `tns:GetLatestHealthRecordItemRequest` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
<code>tns:ItemType</code>	<code>xsd:string</code>	0..1	Yes	Health record item type

**Output (Literal)**

The output of this method is the document element `tns:GetHealthRecordItemResponse` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
<code>tns:HealthRecord Data</code>	<code>tns4:HealthRecord Data</code>	0..1	Yes	Container for health record items

**Faults**

Name	Content	Description
ReceiverFault	<code>tns:ReceiverFault</code>	
SenderFault	<code>tns:SenderFault</code>	

**Method: GetUserProfile****Description**

Gets the user profile. The user profile can be the same as the health record profile, or the user can be another person that has been authorized to access the health record.

**Action**

`Taltioni.Services/TaltioniAPI/Actions/GetUserProfile`

**Style**

Document

**Input (Literal)**

The input of this method is the document element `tns:GetUserProfileRequest` that is always empty.

**Output (Literal)**

The output of this method is the document element `tns:GetUserProfileResponse` having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:UserProfile	tns4:Person	0..1	Yes	Requested user profile

## Faults

Name	Content	Description
SenderFault	tns:SenderFault	
ReceiverFault	tns:ReceiverFault	

## Method: RemoveApplicationAuthorization

### Description

Cancels the authorization, i.e. inactivates the link between your application and the user. Note that the user can also cancel the authorization at any time.

### Action

Taltioni.Services/TaltioniAPI/Actions/RemoveUserAuthorization

### Style

Document

### Input (Literal)

The input of this method is the document element tns:RemoveApplicationAuthorizationRequest that is always empty.

### Output (Literal)

The output of this method is the document element tns:RemoveApplicationAuthorizationResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Success	xsd:boolean	0..1	No	Indicates if the authorization was removed successfully

## Faults

Name	Content	Description
SenderFault	tns:SenderFault	
ReceiverFault	tns:ReceiverFault	

## Method: StoreHealthRecordItems

### Description

Stores health record items. Update will be performed if an item with the given Id is found, otherwise a new item is created.

### Action

Taltioni.Services/TaltioniAPI/Actions/StoreHealthRecordItems

### Style

Document

### Input (Literal)

The input of this method is the document element tns:StoreHealthRecordItemsRequest having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecord Data	tns4:HealthRecord Data	0..1	Yes	Container for health record items
tns:AbortOnError	xsd:boolean	0..1	No	Indicates whether to abort the operation if an error occurs

### Output (Literal)

The output of this method is the document element tns:StoreHealthRecordItemsResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:StoreItemsResult	tns4:StoreItemsResult	0..1	Yes	Results of the operation

### Faults

Name	Content	Description
SenderFault	tns:SenderFault	
ReceiverFault	tns:ReceiverFault	

### Remarks

Basic instructions:

- \* All datetimes must be UTC
- \* Leave Id empty for new items, assign correct Id for update operations
- \* Important: when updating, populate the item with one of the GetHealthRecordItem-methods and only update

the necessary fields!

\* The response contains a status (success/failed) for each item included in the request

## Method: UpdateHealthRecordProfile

### Description

Updates health record profile properties. Important: populate the profile with GetHealthRecordProfile and only update the necessary fields!

### Action

Taltioni.Services/TaltioniAPI/Actions/UpdateHealthRecordProfile

### Style

Document

### Input (Literal)

The input of this method is the document element tns:UpdateHealthRecordProfileRequest having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Profile	tns4:HealthRecord Profile	0..1	Yes	Health record profile to update, field Id is mandatory

### Output (Literal)

The output of this method is the document element tns:UpdateHealthRecordProfileResponse having the structure defined by the following table.

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Success	xsd:boolean	0..1	No	Indicates if the health record profile was updates successfully

### Faults

Name	Content	Description
SenderFault	tns:SenderFault	
ReceiverFault	tns:ReceiverFault	

## Complex Types: Taltioni

### Description

Descriptions of all complex types used in the service interface

### Complex Types

Name	Description
tns4:Allergy	Allergy health record item type
tns4:ApplicationInfo	Application information that has been stored in Taltioni
tns4:ArrayOfAllergy	Type array
tns4:ArrayOfCodedValue	Type array
tns4:ArrayOfCondition	Type array
tns4:ArrayOfCustomPropertyValue	Type array
tns4:ArrayOfHealthRecordFile	Type array
tns4:ArrayOfHealthRecordItemType	Type array
tns4:ArrayOfImmunization	Type array
tns4:ArrayOfItemInfo	Type array
tns4:ArrayOfLabTestResult	Type array
tns4:ArrayOfLabTestResultValue	Type array
tns4:ArrayOfMedication	Type array
tns5:ArrayOfMultiLanguageValueItem	Type array
tns4:ArrayOfObservation	Type array
tns4:ArrayOfObservationItem	Type array
tns4:ArrayOfObservationItemType	Type array
tns4:ArrayOfProcedure	Type array
tns4:ArrayOfStoreItemResult	Type array
tns6:ArrayOfstring	Type array
tns4:AuditInfo	Audit information about the item
tns4:AuthorizationInfo	Information about the connection between your application and the user
tns4:CodedValue	Code linked to a value
tns4:CodeFilter	Restrict the search for codes by supplying filters
tns4:Condition	Condition health record item type
tns4:CustomPropertyValue	For future reference
tns4:DeviceInformation	Information about the device used for performing the measurement
tns4:DynamicPropertyInfo	Detailed information of a dynamic property of an observation item or other dynamic type
tns4:HealthRecordData	Container for the health record items

Name	Description
tns4:HealthRecordFile	File health record item type. File content is stored in property Data, which is only populated when the HealthRecordFile item is requested via the GetHealthRecordItem operation.
tns4:HealthRecordItem	Base type for health record items
tns4:HealthRecordItemType	Metadata about a health record item type
tns4:HealthRecordProfile	Health record profile information, including name, gender, contact information and basic health-related information. Some fields may be hidden from your application depending on the access rights of your application.
tns4:Immunization	Immunization health record item type (used to store vaccinations)
tns4:ItemInfo	Indicates the item type and id
tns4:LabTestResult	Lab test result health record item type
tns4:LabTestResultValue	Represents a single value within a lab test result
tns4:Medication	Medication health record item type
tns4:MultiLanguageValue	Contains text translated to multiple languages
tns5:MultiLanguageValueItem	Represents a single translation within a multi-language value
tns4:Observation	Represents an observation about a person, dynamic type used for storing measurements and other observations (e.g. blood pressure observation)
tns4:ObservationItem	Represents a single value within an observation (e.g. systolic in a blood pressure observation)
tns4:ObservationItemType	Metadata about an observation type
tns4:Person	Basic information (name, contact info, etc.) about a person
tns4:Prescription	Prescription related to a medication. Can only exist as a child of a medication.
tns4:Procedure	Procedure health record item type (used to store information about surgeries and other medical procedures)
tns3:ReceiverFault	Provides information about an error that seems like a service-related error. It is possible that a receiver fault cannot be resolved by your application, but invalid data, such as null values, can sometimes cause a receiver fault. Please check your message syntax and content carefully data before contacting the service provider.
tns3:SenderFault	Provides information about an error that seems like an error related to incoming data. Please check your message syntax and content carefully data before contacting the service provider.
tns4:StoreItemResult	Result for a single item in a store operation
tns4:StoreItemsResult	Results for the whole store operation. Contains detailed information of all items included in the store operation.

## Complex Type: tns4:Allergy

### Description

Allergy health record item type

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:FirstObserved	xsd:dateTime	0..1	Yes	Date when the allergy was first observed
tns4:Name	xsd:string	1..1	Yes	Allergy name (required)
tns4:Reaction	xsd:string	0..1	Yes	Description of the allergic reaction
tns4:LastObserved	xsd:dateTime	0..1	Yes	Last observed date
tns4:AllergenType	xsd:string	0..1	Yes	Allergen type value
tns4:AllergenCode	xsd:string	0..1	Yes	Allergen code value
tns4:TreatmentProviderName	xsd:string	0..1	Yes	Treatment provider name
tns4:Treatment	xsd:string	0..1	Yes	Allergy treatment information
tns4:IsNegated	xsd:boolean	0..1	Yes	Indicates if the allergy is negated with treatment

Component	Type	Occurs	Nilable?	Description
tns4:AllergenCodeCode	tns4:CodedValue	0..1	Yes	Allergen code coded value
tns4:AllergenTypeCode	tns4:CodedValue	0..1	Yes	Allergen type code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Allergy code
tns4:ReactionCode	tns4:CodedValue	0..1	Yes	Code for the allergic reaction
tns4:TreatmentCode	tns4:CodedValue	0..1	Yes	Code for the treatment value

**Referenced By**

- Element tns4:Allergy [type ArrayOfAllergy]
- Element tns4:Allergy

**Complex Type: tns4:ApplicationInfo****Description**

Application information that has been stored in Taltioni

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:CreateDate	xsd:dateTime	0..1	No	Date when your application was added to the application registry
tns4:Name	xsd:string	0..1	Yes	Application name
tns4:Description	xsd:string	0..1	Yes	Application description
tns4:VendorId	xsd:string	0..1	Yes	Vendor id
tns4:VendorDescription	xsd:string	0..1	Yes	Vendor description
tns4:Category	xsd:string	0..1	Yes	Application category
tns4:State	xsd:string	0..1	Yes	Application state
tns4:AccessRights	tns6:ArrayOfstring	0..1	Yes	List of all access rights granted for the application
tns4:ReadAccessItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types that your application can read



Component	Type	Occurs	Nilable?	Description
tns4:WriteAccessItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types that your application can create and update

**Referenced By**

- Element tns:ApplicationInfo [element GetApplicationInfoResponse]
- Element tns4:ApplicationInfo

**Complex Type: tns4:ArrayOfAllergy****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Allergy	tns4:Allergy	0..*	Yes	Allergy health record item type

**Referenced By**

- Element tns4:Allergies [type HealthRecordData]
- Element tns4:ArrayOfAllergy

**Complex Type: tns4:ArrayOfCodedValue****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		

Component	Type	Occurs	Nilable?	Description
tns4:CodedValue	tns4:CodedValue	0..*	Yes	Represents a code known to the service

**Referenced By**

- Element tns4:ArrayOfCodedValue
- Element tns:Codes [element GetCodesResponse]

**Complex Type: tns4:ArrayOfCondition****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Condition	tns4:Condition	0..*	Yes	Condition health record item type

**Referenced By**

- Element tns4:ArrayOfCondition
- Element tns4:Conditions [type HealthRecordData]

**Complex Type: tns4:ArrayOfCustomPropertyValue****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		

Component	Type	Occurs	Nilable?	Description
tns4:CustomPropertyValue	tns4:CustomPropertyValue	0..*	Yes	For future reference

**Referenced By**

- Element tns4:ArrayOfCustomPropertyValue
- Element tns4:CustomProperties [type HealthRecordProfile]

**Complex Type: tns4:ArrayOfHealthRecordFile****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:HealthRecordFile	tns4:HealthRecordFile	0..*	Yes	Health record file

**Referenced By**

- Element tns4:ArrayOfHealthRecordFile
- Element tns4:HealthRecordFiles [type HealthRecordData]

**Complex Type: tns4:ArrayOfHealthRecordItemType****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:HealthRecordItemType	tns4:HealthRecordItemType	0..*	Yes	Health record item type

**Referenced By**

- Element tns4:ArrayOfHealthRecordItemType
- Element tns:ItemTypes [element GetHealthRecordItemTypesResponse]

**Complex Type: tns4:ArrayOfImmunization****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Immunization	tns4:Immunization	0..*	Yes	Immunization health record item type

**Referenced By**

- Element tns4:ArrayOfImmunization
- Element tns4:Immunizations [type HealthRecordData]

**Complex Type: tns4:ArrayOfItemInfo****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ItemInfo	tns4:ItemInfo	0..*	Yes	Item type and id

**Referenced By**

- Element tns4:ArrayOfItemInfo
- Element tns:HealthRecordItems [element DeleteHealthRecordItemsRequest]

**Complex Type: tns4:ArrayOfLabTestResult****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:LabTestResult	tns4:LabTestResult	0..*	Yes	Lab test result health record item

**Referenced By**

- Element tns4:ArrayOfLabTestResult
- Element tns4:LabTestResults [type HealthRecordData]

**Complex Type: tns4:ArrayOfLabTestResultValue****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:LabTestResultValue	tns4:LabTestResultValue	0..*	Yes	Represents a single value within a lab test result

**Referenced By**

- Element tns4:ArrayOfLabTestResultValue
- Element tns4:LabTestResultValues [type LabTestResult]

**Complex Type: tns4:ArrayOfMedication****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Medication	tns4:Medication	0..*	Yes	Medication

**Referenced By**

- Element tns4:ArrayOfMedication
- Element tns4:Medications [type HealthRecordData]

**Complex Type: tns5:ArrayOfMultiLanguageValueItem****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns5:MultiLanguageValueItem	tns5:MultiLanguageValueItem	0..*	Yes	Single translation of a multi-language text

**Referenced By**

- Element tns5:ArrayOfMultiLanguageValueItem
- Element tns4:Items [type MultiLanguageValue]

**Complex Type: tns4:ArrayOfObservation****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observation	tns4:Observation	0..*	Yes	Observation

**Referenced By**

- Element tns4:ArrayOfObservation
- Element tns4:Observations [type HealthRecordData]

**Complex Type: tns4:ArrayOfObservationItem****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ObservationItem	tns4:ObservationItem	0..*	Yes	Observations consist of observation items that contain the actual observation values. Each observation has at least one observation item.

**Referenced By**

- Element tns4:ArrayOfObservationItem
- Element tns4:ObservationItems [type Observation]

**Complex Type: tns4:ArrayOfObservationItemType****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ObservationItemType	tns4:ObservationItemType	0..*	Yes	Observation item type

**Referenced By**

- Element tns4:ArrayOfObservationItemType
- Element tns4:ObservationItemTypes [type HealthRecordItemType]

**Complex Type: tns4:ArrayOfProcedure****Description**

Type array

**Derived By**

Restricting xsd:anyType



**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Procedure	tns4:Procedure	0..*	Yes	Procedure

**Referenced By**

- Element tns4:ArrayOfProcedure
- Element tns4:Procedures [type HealthRecordData]

**Complex Type: tns4:ArrayOfStoreItemResult****Description**

Type array

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:StoreItemResult	tns4:StoreItemResult	0..*	Yes	Store result for one specific item

**Referenced By**

- Element tns4:ArrayOfStoreItemResult
- Element tns4:DetailedResults [type StoreItemsResult]

**Complex Type: tns6:ArrayOfstring****Description**

Type array

**Derived By**

Restricting xsd:anyType

## Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

## Referenced By

- Element tns4:AccessRights [type ApplicationInfo]
- Element tns4:AccessRights [type AuthorizationInfo]
- Element tns6:ArrayOfstring
- Element tns4:ErrorMessages [type StoreItemsResult]
- Element tns:itemTypes [element GetHealthRecordItemsRequest]
- Element tns4:ReadAccessItemTypes [type ApplicationInfo]
- Element tns4:ReadAccessItemTypes [type AuthorizationInfo]
- Element tns4:WriteAccessItemTypes [type ApplicationInfo]
- Element tns4:WriteAccessItemTypes [type AuthorizationInfo]

## Complex Type: tns4:AuditInfo

### Description

Audit information about the item

### Derived By

Restricting xsd:anyType

## Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Created	xsd:dateTime	0..1	Yes	Date when the item was created
tns4:LastUpdated	xsd:dateTime	0..1	Yes	Date when the item was last updated
tns4:CreatedBy	xsd:string	0..1	Yes	Creator of the item (not always available)
tns4:LastUpdated By	xsd:string	0..1	Yes	Id of the party who performed the update (not available to most applications)
tns4:PerformerType	xsd:string	0..1	Yes	Performer type (health record owner, laboratory, health care professional, etc.)

Component	Type	Occurs	Nilable?	Description
tns4:PerformerId	xsd:string	0..1	Yes	Identifier of the party that performed (or recorded) the measurement or created the item
tns4:PerformerTypeCode	tns4:CodedValue	0..1	Yes	Code for the performer type
tns4:SourceSystem	xsd:string	0..1	Yes	Source system for the data (system of origin)
tns4:IdInSourceSystem	xsd:string	0..1	Yes	Id of the item in the source system
tns4:ExternalId	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:ExternalId2	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:DeviceInformation	tns4:DeviceInformation	0..1	Yes	Device information

**Referenced By**

- Element tns4:AuditInfo [type HealthRecordItem]
- Element tns4:AuditInfo [type HealthRecordProfile]
- Element tns4:AuditInfo [type Person]
- Element tns4:AuditInfo

**Complex Type: tns4:AuthorizationInfo****Description**

Information about the connection between your application and the user

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:AuthorizationDateTime	xsd:dateTime	0..1	No	Date and time of the authorization (link between your application and the user)
tns4:IsUserHealthRecordOwner	xsd:boolean	0..1	No	Indicates if the user is the owner of the health record

Component	Type	Occurs	Nilable?	Description
tns4:WriteAccessEnabled	xsd:boolean	0..1	No	Indicates if write access is enabled for the authorization. Write access is enabled for your application only if the user is the owner of the health record or has write access to it.
tns4:PrivateDataAccessEnabled	xsd:boolean	0..1	No	Indicates if access to private items is allowed for your application
tns4:AccessRights	tns6:ArrayOfstring	0..1	Yes	List of all access rights granted for the application for the current authorization (user)
tns4:ReadAccessItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types that your application can read
tns4:WriteAccessItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types that your application can create and update
tns4:GetItemsCount	xsd:int	0..1	No	Number of get items operations performed for the authorization (user) in total
tns4:StoreItemsCount	xsd:int	0..1	No	Number of store items operations performed
tns4:DeleteItemsCount	xsd:int	0..1	No	Indicates how many delete items operations have been performed for the current authorization in total
tns4:GetProfileCount	xsd:int	0..1	No	Number of get profile operations performed for the authorization (user) in total
tns4:UpdateProfileCount	xsd:int	0..1	No	Number of update profile operations performed

**Referenced By**

- Element tns:AuthorizationInfo [element GetAuthorizationInfoResponse]
- Element tns4:AuthorizationInfo

**Complex Type: tns4:CodedValue****Description**

Code linked to a value

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

### Referenced By

- Element tns4:AllergenCodeCode [type Allergy]
- Element tns4:AllergenTypeCode [type Allergy]
- Element tns4:AmountPrescribedUnitsCode [type Prescription]
- Element tns4:AnatomicLocationCode [type Procedure]
- Element tns4:AnatomicSurfaceCode [type Immunization]
- Element tns4:ATCCCode [type Medication]
- Element tns4:BloodTypeCode [type HealthRecordProfile]
- Element tns4:CodedValue [type ArrayOfCodedValue]
- Element tns4:CodedValue
- Element tns4:DocumentTypeCode [type HealthRecordFile]
- Element tns4:DoseFormCode [type Medication]
- Element tns4:EmploymentStatusCode [type HealthRecordProfile]
- Element tns4:EthnicityCode [type HealthRecordProfile]
- Element tns4:FileTypeCode [type HealthRecordFile]
- Element tns4:FrequencyUnitsCode [type Medication]
- Element tns4:HighestEducationLevelCode [type HealthRecordProfile]
- Element tns4:InstructionsCode [type Prescription]
- Element tns4:ManufacturerCode [type Immunization]
- Element tns4:MaritalStatusCode [type HealthRecordProfile]
- Element tns4:MeasurementUnitsCode [type LabTestResultValue]
- Element tns4:MedicationNameCode [type Immunization]
- Element tns4:NameCode [type Allergy]

- Element tns4:NameCode [type Condition]
- Element tns4:NameCode [type DynamicPropertyInfo]
- Element tns4:NameCode [type HealthRecordFile]
- Element tns4:NameCode [type Immunization]
- Element tns4:NameCode [type LabTestResult]
- Element tns4:NameCode [type LabTestResultValue]
- Element tns4:NameCode [type Medication]
- Element tns4:NameCode [type Procedure]
- Element tns4:NationalityCode [type HealthRecordProfile]
- Element tns4:NationalityCode [type Person]
- Element tns4:PerformerTypeCode [type AuditInfo]
- Element tns4:PersonTypeCode [type HealthRecordProfile]
- Element tns4:PersonTypeCode [type Person]
- Element tns4:PrescribedCode [type Medication]
- Element tns4:ReactionCode [type Allergy]
- Element tns4:ReligionCode [type HealthRecordProfile]
- Element tns4:RouteCode [type Immunization]
- Element tns4:StatusCode [type Condition]
- Element tns4:SubstitutionCode [type Prescription]
- Element tns4:TextValueCode [type CustomPropertyValue]
- Element tns4:TextValueCode [type ObservationItem]
- Element tns4:TreatmentCode [type Allergy]
- Element tns4:TypeCode [type HealthRecordItemType]
- Element tns4:TypeCode [type ObservationItemType]
- Element tns4:UnitCode [type CustomPropertyValue]
- Element tns4:UnitCode [type DynamicPropertyInfo]
- Element tns4:UnitCode [type ObservationItem]

## Complex Type: tns4:CodeFilter

### Description

Restrict the search for codes by supplying filters

### Derived By

Restricting xsd:anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets - sub group information for coded properties is available via the GetHealthRecordItemTypes operation
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	0..1	Yes	Code value
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code

**Referenced By**

- Element tns:CodeFilter [element GetCodesRequest]
- Element tns4:CodeFilter

**Complex Type: tns4:Condition****Description**

Condition health record item type

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDateTime	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)

Component	Type	Occurs	Nilable?	Description
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Condition name (required)
tns4:OnsetDate	xsd:dateTime	0..1	Yes	Date of onset of the condition (first observed)
tns4:Status	xsd:string	0..1	Yes	Condition status
tns4:StopDate	xsd:dateTime	0..1	Yes	Date when the condition was resolved
tns4:StopReason	xsd:string	0..1	Yes	Indicates how the condition was resolved
tns4:NameCode	tns4:CodedValue	0..1	Yes	Condition code
tns4:StatusCode	tns4:CodedValue	0..1	Yes	Code for the condition status

**Referenced By**

- Element tns4:Condition [type ArrayOfCondition]
- Element tns4:Condition

**Complex Type: tns4:CustomPropertyValue****Description**

For future reference

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Id	xsd:string	0..1	Yes	For future reference



Component	Type	Occurs	Nilable?	Description
tns4:PropertyDefinition	tns4:DynamicPropertyInfo	0..1	Yes	For future reference
tns4:PropertyDefinitionId	xsd:string	0..1	Yes	For future reference
tns4:ValueType	tns4:ItemValueType	1..1	No	For future reference
tns4:ChoiceValue	xsd:string	0..1	Yes	Choice value
tns4:TextValue	xsd:string	0..1	Yes	For future reference
tns4:TextValueCode	tns4:CodedValue	0..1	Yes	Code for the text value
tns4:NumberValue	xsd:double	0..1	Yes	For future reference
tns4:DateValue	xsd:dateTime	0..1	Yes	For future reference
tns4:BooleanValue	xsd:boolean	0..1	Yes	Boolean value
tns4:ValueAsString	xsd:string	0..1	Yes	For future reference
tns4:Unit	xsd:string	0..1	Yes	For future reference
tns4:UnitCode	tns4:CodedValue	0..1	Yes	For future reference
tns4:EffectiveDate	xsd:dateTime	0..1	Yes	For future reference

**Referenced By**

- Element tns4:CustomPropertyValue [type ArrayOfCustomPropertyValue]
- Element tns4:CustomPropertyValue

**Complex Type: tns4:DeviceInformation****Description**

Information about the device used for performing the measurement

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:SerialNumber	xsd:string	0..1	Yes	Serial number of the device

Component	Type	Occurs	Nilable?	Description
tns4:Manufacturer	xsd:string	0..1	Yes	Device manufacturer
tns4:Model	xsd:string	0..1	Yes	Device model
tns4:DeviceType	xsd:string	0..1	Yes	Identifies the type of the device
tns4:AssignedDeviceId	xsd:string	0..1	Yes	Id of the assigned device
tns4:DeviceInfo	xsd:string	0..1	Yes	Device information

**Referenced By**

- Element tns4:DeviceInformation [type AuditInfo]
- Element tns4:DeviceInformation

**Complex Type: tns4:DynamicPropertyInfo****Description**

Detailed information of a dynamic property of an observation item or other dynamic type

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:IsRequired	xsd:boolean	1..1	No	Indicates if a value is required for this item
tns4:Name	xsd:string	1..1	Yes	Detailed info
tns4:NameCode	tns4:CodedValue	0..1	Yes	Value type code
tns4:Title	tns4:MultiLanguage Value	0..1	Yes	Localized title for the value type
tns4:Description	tns4:MultiLanguage Value	0..1	Yes	Free text additional information about the type
tns4:ExampleText	tns4:MultiLanguage Value	0..1	Yes	Example value for the type
tns4:ValueType	tns4:ItemValueType	1..1	No	Value type (see ItemValueType in Simple Types for more information)
tns4:Unit	xsd:string	0..1	Yes	Unit for the dynamic value
tns4:UnitCode	tns4:CodedValue	0..1	Yes	Code for the unit

Component	Type	Occurs	Nilable?	Description
tns4:DefaultChoiceValue	xsd:string	0..1	Yes	Default choice value
tns4:DefaultTextValue	xsd:string	0..1	Yes	Default text value
tns4:DefaultNumberValue	xsd:double	0..1	Yes	Default number value
tns4:DefaultDateValue	xsd:string	0..1	Yes	Default date value
tns4:DefaultBooleanValue	xsd:boolean	0..1	Yes	Default boolean value
tns4:MinInclusive	xsd:double	0..1	Yes	Minimum value allowed for the item (applies to numeric values only)
tns4:MaxInclusive	xsd:double	0..1	Yes	Maximum value allowed for the item (applies to numeric values only)
tns4:MinSelect	xsd:int	0..1	Yes	Minimum number of values that can be selected (applies to multiselect values only)
tns4:MaxSelect	xsd:int	0..1	Yes	Maximum number of values that can be selected (applies to multiselect values only)
tns4:Step	xsd:double	0..1	Yes	Indicates the numeric step between values of this type (can be used to populate a select list of available values)
tns4:FormatString	xsd:string	0..1	Yes	Format string used when presenting the value as string (e.g. "{0:0}" for integer)
tns4:MinLength	xsd:int	0..1	Yes	Minimum number of values that can be selected (applies to multiselect values only)
tns4:MaxLength	xsd:int	0..1	Yes	Maximum length (applies to text values only)
tns4:AdditionalInfo	xsd:string	0..1	Yes	Free text field for additional info about the value type
tns4:TextValueCodeSubGroup	xsd:string	0..1	Yes	Indicates the code sub group that must be used for the codable value. Use a code that belongs to this sub group.
tns4:UnitCodeSubGroup	xsd:string	0..1	Yes	Indicates the code sub group that must be used for the unit code. Use a code that belongs to this sub group.

### Referenced By

- Element tns4:DynamicPropertyInfo
- Element tns4:PropertyDefinition [type CustomPropertyValue]
- Element tns4:ValueTypeInformation [type ObservationItemType]

## Complex Type: tns4:HealthRecordData

### Description

Container for the health record items

### Derived By

Restricting xsd:anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observations	tns4:ArrayOfObservation	0..1	Yes	Observations
tns4:Allergies	tns4:ArrayOfAllergy	0..1	Yes	List of allergies
tns4:Conditions	tns4:ArrayOfCondition	0..1	Yes	Condition array
tns4:Immunizations	tns4:ArrayOfImmunization	0..1	Yes	Immunization list
tns4:LabTestResults	tns4:ArrayOfLabTestResult	0..1	Yes	Lab test results
tns4:Medications	tns4:ArrayOfMedication	0..1	Yes	Medication list
tns4:Procedures	tns4:ArrayOfProcedure	0..1	Yes	Procedure list
tns4:HealthRecordFiles	tns4:ArrayOfHealthRecordFile	0..1	Yes	Health record file list

### Referenced By

- Element tns:HealthRecordData [element GetHealthRecordItemResponse]
- Element tns:HealthRecordData [element GetHealthRecordItemsPagedResponse]
- Element tns:HealthRecordData [element GetHealthRecordItemsResponse]
- Element tns:HealthRecordData [element StoreHealthRecordItemsRequest]
- Element tns4:HealthRecordData

## Complex Type: tns4:HealthRecordFile

### Description

File health record item type. File content is stored in property Data, which is only populated when the HealthRecordFile item is requested via the GetHealthRecordItem operation.

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	File name (required)
tns4:ContentType	xsd:string	1..1	Yes	Consent type
tns4:Data	xsd:base64Binary	0..1	Yes	File content (binary data)
tns4:IsXml	xsd:boolean	0..1	Yes	Indicates if the file content is Xml
tns4:IsText	xsd:boolean	0..1	Yes	Indicates if the file content is text
tns4:DocumentType	xsd:string	0..1	Yes	Document type, valid for document files only
tns4:FileType	xsd:string	0..1	Yes	File type
tns4:DocumentTypeCode	tns4:CodedValue	0..1	Yes	Document type code
tns4:FileTypeCode	tns4:CodedValue	0..1	Yes	File type code

Component	Type	Occurs	Nilable?	Description
tns4:AdditionalInfo	xsd:string	0..1	Yes	Free text field for additional info about the file
tns4:NameCode	tns4:CodedValue	0..1	Yes	Health record file code

**Referenced By**

- Element tns4:HealthRecordFile [type ArrayOfHealthRecordFile]
- Element tns4:HealthRecordFile

**Complex Type: tns4:HealthRecordItem****Description**

Base type for health record items

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDateTime	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item

Component	Type	Occurs	Nilable?	Description
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item

**Referenced By**

- Element tns4:HealthRecordItem
- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Complex Type: tns4:HealthRecordItemType****Description**

Metadata about a health record item type

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name
tns4:TypeCode	tns4:CodedValue	0..1	Yes	Code for the item type
tns4:Title	tns4:MultiLanguage Value	1..1	Yes	Localized name of the item type
tns4:Description	tns4:MultiLanguage Value	0..1	Yes	Item type description
tns4:IsObservation	xsd:boolean	1..1	No	Indicates if the type is a dynamic observation type
tns4:ObservationItemTypes	tns4:ArrayOfObservationItemType	0..1	Yes	Observation item types

**Referenced By**

- Element tns4:HealthRecordItemType [type ArrayOfHealthRecordItemType]
- Element tns4:HealthRecordItemType

**Complex Type: tns4:HealthRecordProfile****Description**

Health record profile information, including name, gender, contact information and basic health-related information. Some fields may be hidden from your application depending on the access rights of your application.

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created to health record profile
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the profile, not available for most applications
tns4:OrganizationId	xsd:string	0..1	Yes	Organization id (always empty for Taltioni users)
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record profile
tns4:PersonalId	xsd:string	0..1	Yes	Personal identifier (HETU, not available to most applications)
tns4:State	xsd:string	0..1	Yes	Health record state
tns4:EffectiveDateTime	xsd:dateTime	1..1	Yes	Creation date (required)
tns4:FirstName	xsd:string	1..1	Yes	First name (required)
tns4:LastName	xsd:string	1..1	Yes	Last name
tns4:FullName	xsd:string	0..1	Yes	Full name of the person (read-only, user first and last name to set the name)
tns4:MiddleName	xsd:string	0..1	Yes	Middle name
tns4:Suffix	xsd:string	0..1	Yes	Person name suffix, such as educational degree
tns4:Title	xsd:string	0..1	Yes	Localized name of the item type
tns4:EmailAddresses	xsd:string	0..1	Yes	Primary email address



Component	Type	Occurs	Nilable?	Description
tns4:EmailAddress2	xsd:string	0..1	Yes	Secondary email address
tns4:EmailAddress3	xsd:string	0..1	Yes	Third email address
tns4:EmailInfo	xsd:string	0..1	Yes	Additional information about the email addresses
tns4:MobilePhone	xsd:string	0..1	Yes	Mobile phone (primary)
tns4:MobilePhone2	xsd:string	0..1	Yes	Secondary mobile phone
tns4:MobilePhone3	xsd:string	0..1	Yes	Third mobile phone
tns4:VoiceCallPhone	xsd:string	0..1	Yes	Not applicable in Taltioni
tns4:HomePhone	xsd:string	0..1	Yes	Home phone (syntax: +358501234567)
tns4:WorkPhone	xsd:string	0..1	Yes	Work phone number
tns4:PhoneInfo	xsd:string	0..1	Yes	Additional information about phone contact
tns4:Description	xsd:string	0..1	Yes	Free text additional information about the profile
tns4:OrganizationInfo	xsd:string	0..1	Yes	Organization information (always empty for Taltioni users)
tns4:ProfessionalTraining	xsd:string	0..1	Yes	Not applicable for a health record owner
tns4:PersonType	xsd:string	0..1	Yes	Not applicable for health record owner
tns4:PersonTypeCode	tns4:CodedValue	0..1	Yes	Code for the person type
tns4:TimeZone	xsd:string	0..1	Yes	Time zone of the person
tns4:Language	xsd:string	0..1	Yes	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Culture	xsd:string	0..1	Yes	Culture in ISO culture code format (e.g. fi-FI)
tns4:DateOfDeath	xsd:dateTime	0..1	Yes	Date of death
tns4:Gender	tns4:Gender	0..1	No	Gender of the person
tns4:DateOfBirth	xsd:dateTime	0..1	Yes	Date of birth
tns4:BloodType	xsd:string	0..1	Yes	Blood type of the person
tns4:BloodTypeCode	tns4:CodedValue	0..1	Yes	Blood type code
tns4:EmploymentStatus	xsd:string	0..1	Yes	Employment status free text
tns4:EmploymentStatusCode	tns4:CodedValue	0..1	Yes	Employment status code

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:Ethnicity	xsd:string	0..1	Yes	Ethnicity free text
tns4:EthnicityCode	tns4:CodedValue	0..1	Yes	Ethnicity code
tns4:HighestEducationLevel	xsd:string	0..1	Yes	Highest education level (free text)
tns4:HighestEducationLevelCode	tns4:CodedValue	0..1	Yes	Code for education level
tns4:IsDeceased	xsd:boolean	0..1	Yes	Indicates if the person is deceased (dead)
tns4:IsDisabled	xsd:boolean	0..1	Yes	Indicates if the person is disabled (handicapped)
tns4:MaritalStatus	xsd:string	0..1	Yes	Marital status (single, married, divorces, etc.)
tns4:MaritalStatusCode	tns4:CodedValue	0..1	Yes	Code for the marital status
tns4:Religion	xsd:string	0..1	Yes	Religion information
tns4:ReligionCode	tns4:CodedValue	0..1	Yes	Code for the religion
tns4:SocialSecurityNumber	xsd:string	0..1	Yes	Social security number (not applicable in region Finland, PersonalId field is used to store HETU)
tns4:Street	xsd:string	0..1	Yes	Street
tns4:PostalCode	xsd:string	0..1	Yes	Postal code
tns4:City	xsd:string	0..1	Yes	City of residence
tns4:County	xsd:string	0..1	Yes	Country of residence
tns4:Country	xsd:string	0..1	Yes	Country of residence
tns4:Nationality	xsd:string	0..1	Yes	Nationality of the person (e.g. Finnish)
tns4:NationalityCode	tns4:CodedValue	0..1	Yes	Code for nationality
tns4:CustomProperties	tns4:ArrayOfCustomPropertyValue	0..1	Yes	For future reference

**Referenced By**

- Element tns4:HealthRecordProfile
- Element tns:Profile [element CreateHealthRecordProfileRequest]
- Element tns:Profile [element GetHealthRecordProfileResponse]
- Element tns:Profile [element UpdateHealthRecordProfileRequest]

**Complex Type: tns4:Immunization**

**Description**

Immunization health record item type (used to store vaccinations)

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfo AsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Immunization name (required)
tns4:Manufacturer	xsd:string	0..1	Yes	Immunization medication manufacturer
tns4:Lot	xsd:string	0..1	Yes	Manufacturing lot
tns4:Route	xsd:string	0..1	Yes	Immunization medical route
tns4:ExpirationDate	xsd:dateTime	0..1	Yes	Expiration date for the immunization
tns4:Sequence	xsd:string	0..1	Yes	Sequence information
tns4:AnatomicSurface	xsd:string	0..1	Yes	Anatomic surface

Component	Type	Occurs	Nilable?	Description
tns4:AdverseEvent	xsd:string	0..1	Yes	Adverse events related to the immunization
tns4:AdverseEffectTime	xsd:dateTime	0..1	Yes	The date when the adverse effect was observed
tns4:MedicationName	xsd:string	0..1	Yes	Name of the immunization medication
tns4:AnatomicSurfaceCode	tns4:CodedValue	0..1	Yes	Anatomic surface code
tns4:ManufacturerCode	tns4:CodedValue	0..1	Yes	Code for the manufacturer
tns4:MedicationNameCode	tns4:CodedValue	0..1	Yes	Link to medication code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Immunization code
tns4:RouteCode	tns4:CodedValue	0..1	Yes	Code for the immunization route

**Referenced By**

- Element tns4:Immunization [type ArrayOfImmunization]
- Element tns4:Immunization

**Complex Type: tns4:ItemInfo****Description**


Indicates the item type and id

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
 SEQUENCE		1..1		
tns4:ItemType	xsd:string	1..1	Yes	Health record item type
tns4:ItemId	xsd:string	1..1	Yes	Taltioni internal item id (GUID format)

**Referenced By**

- Element tns4:ItemInfo [type ArrayOfItemInfo]
- Element tns4:ItemInfo

**Complex Type: tns4:LabTestResult**

**Description**

Lab test result health record item type

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfo AsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Lab test result name (required)
tns4:LaboratoryName	xsd:string	0..1	Yes	Laboratory name
tns4:OrderedByName	xsd:string	0..1	Yes	Name of the party that ordered the lab test
tns4:LabTestResultValues	tns4:ArrayOfLabTestResultValue	1..1	Yes	Lab test values
tns4:NameCode	tns4:CodedValue	0..1	Yes	Lab test result code

**Referenced By**

- Element tns4:LabTestResult [type ArrayOfLabTestResult]
- Element tns4:LabTestResult

**Complex Type: tns4:LabTestResultValue****Description**

Represents a single value within a lab test result

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	0..1	Yes	Lab test value name (required)
tns4:Measurement	xsd:double	0..1	Yes	Lab test measurement value

Component	Type	Occurs	Nilable?	Description
tns4:MeasurementUnits	xsd:string	0..1	Yes	Measurement unit
tns4:MeasurementText	xsd:string	0..1	Yes	Textual description of the measurement
tns4:MeasurementUnitsCode	tns4:CodedValue	0..1	Yes	Measurement unit code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Lab test value code

**Referenced By**

- Element tns4:LabTestResultValue [type ArrayOfLabTestResultValue]
- Element tns4:LabTestResultValue

**Complex Type: tns4:Medication****Description**

Medication health record item type

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format

Component	Type	Occurs	Nilable?	Description
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Medication name (required)
tns4:Reason	xsd:string	0..1	Yes	Reason for taking the medication
tns4:FrequencyUnits	xsd:string	0..1	Yes	Frequency unit
tns4:FrequencyText	xsd:string	0..1	Yes	Free text frequency description
tns4:Frequency	xsd:double	0..1	Yes	Frequency for taking the medication
tns4:Manufacturer	xsd:string	0..1	Yes	Medication manufacturer
tns4:DateStarted	xsd:dateTime	0..1	Yes	Date when medication usage was started
tns4:DoseForm	xsd:string	0..1	Yes	Dose form (free text)
tns4:DateDiscontinued	xsd:dateTime	0..1	Yes	Date when the medication was discontinued
tns4:SubstanceAdministration	xsd:string	0..1	Yes	Substance administration information
tns4:ActiveIngredients	xsd:string	0..1	Yes	Active ingredients of a medication
tns4:Prescribed	xsd:string	0..1	Yes	Indicates whether the medication was prescribed or over-the counter
tns4:Strength	xsd:string	0..1	Yes	Medication strength
tns4:ATC	xsd:string	0..1	Yes	Anatomical Therapeutic Chemical classification system code
tns4:ATCCode	tns4:CodedValue	0..1	Yes	Link to ATC code
tns4:Prescription	tns4:Prescription	0..1	Yes	Prescription information about the medication
tns4:DoseFormCode	tns4:CodedValue	0..1	Yes	Dose form code
tns4:FrequencyUnitsCode	tns4:CodedValue	0..1	Yes	Frequency unit code
tns4:IsTrafficRisk	xsd:boolean	0..1	Yes	Indicates if the medication causes a traffic risk and driving should be avoided
tns4:NameCode	tns4:CodedValue	0..1	Yes	Medication code
tns4:PrescribedCode	tns4:CodedValue	0..1	Yes	Code for the prescribed status

### Referenced By

- Element tns4:Medication [type ArrayOfMedication]



- Element tns4:Medication

## Complex Type: tns4:MultiLanguageValue

### Description

Contains text translated to multiple languages

### Derived By

Restricting xsd:anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

### Referenced By

- Element tns4:AbbreviationText [type CodedValue]
- Element tns4:Description [type DynamicPropertyInfo]
- Element tns4:Description [type HealthRecordItemType]
- Element tns4:DisplayText [type CodedValue]
- Element tns4:ExampleText [type DynamicPropertyInfo]
- Element tns4:MultiLanguageValue
- Element tns4:Title [type DynamicPropertyInfo]
- Element tns4:Title [type HealthRecordItemType]

## Complex Type: tns5:MultiLanguageValueItem

### Description

Represents a single translation within a multi-language value

### Derived By

Restricting xsd:anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns5:LangCode	xsd:string	1..1	Yes	ISO two-letter language code (e.g. fi for Finnish)
tns5:Value	xsd:string	1..1	Yes	Localized text

**Referenced By**

- Element tns5:MultiLanguageValueItem [type ArrayOfMultiLanguageValueItem]
- Element tns5:MultiLanguageValueItem

**Complex Type: tns4:Observation****Description**

Represents an observation about a person, dynamic type used for storing measurements and other observations (e.g. blood pressure observation)

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items

Component	Type	Occurs	Nilable?	Description
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:ObservationItems	tns4:ArrayOfObservationItem	0..1	Yes	Observation items

**Referenced By**

- Element tns4:Observation [type ArrayOfObservation]
- Element tns4:Observation

**Complex Type: tns4:ObservationItem****Description**

Represents a single value within an observation (e.g. systolic in a blood pressure observation)

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items

Component	Type	Occurs	Nilable?	Description
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:ValueType	tns4:ItemValueType	0..1	No	Value type (read-only field, indicates the type of value accepted for this item, see Simple Types for more information)
tns4:ChoiceValue	xsd:string	0..1	Yes	Choice value
tns4:TextValue	xsd:string	0..1	Yes	Text value for the observation (applicable if value type is text)
tns4:TextValueCode	tns4:CodedValue	0..1	Yes	Code for the text value
tns4:NumberValue	xsd:double	0..1	Yes	Numeric value for the observation (required when value type is Number)
tns4:DateValue	xsd:dateTime	0..1	Yes	Date value
tns4:BooleanValue	xsd:boolean	0..1	Yes	Boolean value
tns4:ValueAsString	xsd:string	0..1	Yes	String representation of the value (read-only field, use TextValue in store operations)
tns4:Unit	xsd:string	0..1	Yes	Unit for the observation item (required for measurements)
tns4:UnitCode	tns4:CodedValue	0..1	Yes	Code for the unit

**Referenced By**

- Element tns4:ObservationItem [type ArrayOfObservationItem]
- Element tns4:ObservationItem

**Complex Type: tns4:ObservationItemType****Description**

Metadata about an observation type

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name

Component	Type	Occurs	Nilable?	Description
tns4:TypeCode	tns4:CodedValue	0..1	Yes	Code for the observation item type
tns4:ValueTypeInformation	tns4:DynamicPropertyInfo	1..1	Yes	Detailed information on the type of value required for this observation item

**Referenced By**

- Element tns4:ObservationItemType [type ArrayOfObservationItemType]
- Element tns4:ObservationItemType

**Complex Type: tns4:Person****Description**

Basic information (name, contact info, etc.) about a person

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the Person
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the person, not available for most applications
tns4:OrganizationId	xsd:string	0..1	Yes	Organization id (always empty for Taltioni users)
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the person
tns4:PersonalId	xsd:string	0..1	Yes	Personal identifier (HETU, not available to most applications)
tns4:State	xsd:string	0..1	Yes	Person state
tns4:EffectiveDateTime	xsd:dateTime	1..1	Yes	Creation date (required)
tns4:FirstName	xsd:string	1..1	Yes	First name (required)
tns4:LastName	xsd:string	1..1	Yes	Last name
tns4:FullName	xsd:string	0..1	Yes	Full name of the person (read-only, user first and last name to set the name)
tns4:MiddleName	xsd:string	0..1	Yes	Middle name
tns4:Suffix	xsd:string	0..1	Yes	Person name suffix, such as educational degree
tns4:Title	xsd:string	0..1	Yes	Title of the person, e.g. Dr.

Component	Type	Occurs	Nilable?	Description
tns4:EmailAddresses	xsd:string	0..1	Yes	Primary email address
tns4:EmailAddresses2	xsd:string	0..1	Yes	Secondary email address
tns4:EmailAddresses3	xsd:string	0..1	Yes	Third email address
tns4:EmailInfo	xsd:string	0..1	Yes	Additional information about the email addresses
tns4:MobilePhone	xsd:string	0..1	Yes	Mobile phone (primary)
tns4:MobilePhone2	xsd:string	0..1	Yes	Secondary mobile phone
tns4:MobilePhone3	xsd:string	0..1	Yes	Third mobile phone
tns4:VoiceCallPhone	xsd:string	0..1	Yes	Not applicable in Taltioni
tns4:HomePhone	xsd:string	0..1	Yes	Home phone (syntax: +358501234567)
tns4:WorkPhone	xsd:string	0..1	Yes	Work phone number
tns4:PhoneInfo	xsd:string	0..1	Yes	Additional information about phone contact
tns4:Description	xsd:string	0..1	Yes	Free text additional information about the person
tns4:OrganizationInfo	xsd:string	0..1	Yes	Organization information (always empty for Taltioni users)
tns4:ProfessionalTraining	xsd:string	0..1	Yes	Indicates the type of professional medical training the person has received
tns4:PersonType	xsd:string	0..1	Yes	Indicates the relationship between the health record owner and the user
tns4:PersonTypeCode	tns4:CodedValue	0..1	Yes	Code for the person type
tns4:TimeZone	xsd:string	0..1	Yes	Time zone of the person
tns4:Language	xsd:string	0..1	Yes	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Culture	xsd:string	0..1	Yes	Culture in ISO culture code format (e.g. fi-FI)
tns4:Street	xsd:string	0..1	Yes	Street
tns4:PostalCode	xsd:string	0..1	Yes	Postal code
tns4:City	xsd:string	0..1	Yes	City of residence
tns4:County	xsd:string	0..1	Yes	Country of residence
tns4:Country	xsd:string	0..1	Yes	Country of residence
tns4:Nationality	xsd:string	0..1	Yes	Nationality of the person (e.g. Finnish)

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:NationalityCode	tns4:CodedValue	0..1	Yes	Code for nationality

**Referenced By**

- Element tns4:Person
- Element tns:UserProfile [element GetUserProfileResponse]

**Complex Type: tns4:Prescription****Description**

Prescription related to a medication. Can only exist as a child of a medication.

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items

Component	Type	Occurs	Nilable?	Description
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:DatePrescribed	xsd:dateTime	0..1	Yes	Date when the medication was prescribed to the person
tns4:AmountPrescribed	xsd:double	0..1	Yes	Amount prescribed (number)
tns4:AmountPrescribedUnits	xsd:string	0..1	Yes	Unit information for amount prescribed
tns4:AmountPrescribedText	xsd:string	0..1	Yes	Textual description of the amount (used if numeric value not available)
tns4:Substitution	xsd:string	0..1	Yes	Substitution information
tns4:Refills	xsd:int	0..1	Yes	Number of refills available
tns4:DaysSupply	xsd:int	0..1	Yes	How many days supply was prescribed
tns4:PrescriptionExpiration	xsd:dateTime	0..1	Yes	Expiration date of the prescription
tns4:Instructions	xsd:string	0..1	Yes	Instructions included in the prescription
tns4:AmountPrescribedUnitsCode	tns4:CodedValue	0..1	Yes	Unit code
tns4:InstructionsCode	tns4:CodedValue	0..1	Yes	Code for prescription instructions
tns4:SubstitutionCode	tns4:CodedValue	0..1	Yes	Code for the substitution value

**Referenced By**

- Element tns4:Prescription [type Medication]
- Element tns4:Prescription

**Complex Type: tns4:Procedure****Description**

Procedure health record item type (used to store information about surgeries and other medical procedures)

**Derived By**

Extending tns4:HealthRecordItem

**Content Model**

Contains elements as defined in the following table.



Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Procedure name (required)
tns4:PrimaryProviderName	xsd:string	0..1	Yes	Primary provider of the medical procedure
tns4:AnatomicLocation	xsd:string	0..1	Yes	Anatomic location for the procedure
tns4:SecondaryProviderName	xsd:string	0..1	Yes	Secondary provider for the medical operation
tns4:AnatomicLocationCode	tns4:CodedValue	0..1	Yes	Anatomic location code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Procedure code

**Referenced By**

- Element tns4:Procedure [type ArrayOfProcedure]
- Element tns4:Procedure

**Complex Type: tns3:ReceiverFault****Description**

Provides information about an error that seems like a service-related error. It is possible that a receiver fault cannot be resolved by your application, but invalid data, such as null values, can sometimes cause a receiver

faul. Please check your message syntax and content carefully data before contacting the service provider.

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns3:Code	tns3:ReceiverFault Code	0..1	No	Fault code

**Referenced By**

- Element tns3:ReceiverFault
- Element tns:ReceiverFault

**Complex Type: tns3:SenderFault****Description**

Provides information about an error that seems like an error related to incoming data. Please check your message syntax and content carefully data before contacting the service provider.

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns3:Code	tns3:SenderFaultCo de	0..1	No	Fault code

**Referenced By**

- Element tns3:SenderFault
- Element tns:SenderFault

**Complex Type: tns4:StoreItemResult**

**Description**

Result for a single item in a store operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ItemType	xsd:string	1..1	Yes	Health record item type
tns4:ItemId	xsd:string	1..1	Yes	Taltioni internal item id (GUID format)
tns4:IdInSourceSystem	xsd:string	0..1	Yes	Id of the item in the source system
tns4:Success	xsd:boolean	1..1	No	Indicates if the item was stored successfully
tns4:ErrorMessage	xsd:string	0..1	Yes	Error message related to the item

**Referenced By**

- Element tns4:StoreItemResult [type ArrayOfStoreItemResult]
- Element tns4:StoreItemResult

**Complex Type: tns4:StoreItemsResult****Description**

Results for the whole store operation. Contains detailed information of all items included in the store operation.

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:IsErrors	xsd:boolean	0..1	No	Indicates if errors occurred during the store request

Component	Type	Occurs	Nilable?	Description
tns4:ErrorMessage	tns6:ArrayOfstring	0..1	Yes	List of errors that occurred while processing the store request
tns4:OperationAborted	xsd:boolean	0..1	No	Indicates that the store operation was aborted due to errors
tns4:DetailedResults	tns4:ArrayOfStoreItemResult	0..1	Yes	Detailed results for each item

**Referenced By**

- Element tns:StoreItemsResult [element StoreHealthRecordItemsResponse]
- Element tns4:StoreItemsResult

## Simple Types: Taltioni

### Description

Basic core types used in Taltioni

### Simple Types

Name	Description
tns2:char	Standard XML type
tns2:duration	Standard XML type
tns4:Gender	Available values for the Gender property
tns2:guid	Standard XML type
tns4:ItemValueType	Available value types for dynamic properties
tns3:ReceiverFaultCode	Fault codes for faults related to the service provider
tns3:SenderFaultCode	Fault codes for faults related to the service consumer

## Simple Type: tns2:char

### Description

Standard XML type

### Derived By

Restricting xsd:int

### Referenced By

- Element tns2:char

## Simple Type: tns2:duration

### Description

Standard XML type

### Derived By

Restricting xsd:duration

### Restrictions

- Value must match the following pattern: \-?P(\d\*D)?(T(\d\*H)?(\d\*M)?(\d\*(\.\d\*)?S)?)?
- The value must be greater than or equal to -P10675199DT2H48M5.4775808S.
- The value must be less than or equal to P10675199DT2H48M5.4775807S.

**Referenced By**

- Element tns2:duration

**Simple Type: tns4:Gender****Description**

Available values for the Gender property

**Derived By**

Restricting xsd:string

**Enumeration**

Value	Description
Female	Female
Male	Male
Undefined	Gender cannot be defined
Unknown	Gender is unknown at this time

**Referenced By**

- Element tns4:Gender [type HealthRecordProfile]
- Element tns4:Gender

**Simple Type: tns2:guid****Description**

Standard XML type

**Derived By**

Restricting xsd:string

**Restrictions**

- Value must match the following pattern: `[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}`

**Referenced By**

- Element tns2:guid
- Element tns:RequestId

**Simple Type: tns4:ItemValueType**

**Description**

Available value types for dynamic properties

**Derived By**

Restricting xsd:string

**Enumeration**

Value	Description
Number	Number value without unit information (use NumberValue field)
Text	"Ad-hoc" text value that cannot be coded (use TextValue field)
Choice	Value has to be one of the predefined choices (use ChoiceValue field). Call GetHealthRecordItemTypes to get the list of choices for the type.
YesNo	Boolean yes/no value (use BooleanValue field)
CodableValue	Value that should be linked to a code in one of the code sets. Supply values in fields TextValue and/or TextValueCode. If you only supply TextValue, code linkage is not performed. If you only supply TextValueCode, the display text of the code is written in field TextValue.
StructuredMeasurement	Number value with unit information. Fields NumberValue and Unit must both be populated or a fault is returned. Call GetHealthRecordItemTypes to check the correct unit for the type.
DateTime	Date and time value

**Referenced By**

- Element tns4:ItemValueType
- Element tns4:ValueType [type CustomPropertyValue]
- Element tns4:ValueType [type DynamicPropertyInfo]
- Element tns4:ValueType [type ObservationItem]

**Remarks**

For more information on dynamic properties, see the documentation for type DynamicPropertyInfo or call operation GetHealthRecordItemTypes

**Simple Type: tns3:ReceiverFaultCode****Description**

Fault codes for faults related to the service provider

**Derived By**

Restricting xsd:string

**Enumeration**

Value	Description
InternalServerError	An unknown error has occurred on the server. The problem may be on the server or in your code. Null values for parameters can sometimes cause InternalServerError faults.

**Referenced By**

- Element tns3:Code [type ReceiverFault]
- Element tns3:ReceiverFaultCode

**Simple Type: tns3:SenderFaultCode****Description**

Fault codes for faults related to the service consumer

**Derived By**

Restricting xsd:string

**Enumeration**

Value	Description
AccessDenied	Access was denied. Check your credentials.
ValidationError	Validation of the posted data returned an error. Check the detailed error message and correct the error.
MalformedRequest	The request was not in the correct format. Check the format of the request.

**Referenced By**

- Element tns3:Code [type SenderFault]
- Element tns3:SenderFaultCode



## Elements: Taltioni

### Description

List of all properties used in the Taltioni service interface

### Elements

Name	Description
tns4:AbbreviationText [type CodedValue]	Abbreviation for the coded value
tns:AbortOnError [element StoreHealthRecordItemsRequest]	Indicates whether to abort the operation if an error occurs
tns:About	About action
tns:AboutResponse	About response action
tns4:AccessRights [type ApplicationInfo]	List of all access rights granted for the application
tns4:AccessRights [type AuthorizationInfo]	List of all access rights granted for the application for the current authorization (user)
tns:AccessToken	AccessToken received during the OAuth authorization procedure (required)
tns4:ActiveIngredients [type Medication]	Active ingredients of a medication
tns4:AdditionalInfo [type DynamicPropertyInfo]	Free text field for additional info about the value type
tns4:AdditionalInfo [type HealthRecordFile]	Free text field for additional info about the file
tns4:AdditionalInfoAsXml [type HealthRecordItem]	Field for proprietary "ad-hoc" information in XML format
tns4:AdverseEffectTime [type Immunization]	The date when the adverse effect was observed
tns4:AdverseEvent [type Immunization]	Adverse events related to the immunization
tns4:AllergenCode [type Allergy]	Allergen code value
tns4:AllergenCodeCode [type Allergy]	Allergen code coded value
tns4:AllergenType [type Allergy]	Allergen type value
tns4:AllergenTypeCode [type Allergy]	Allergen type code
tns4:Allergies [type HealthRecordData]	List of allergies
tns4:Allergy [type ArrayOfAllergy]	Allergy health record item type
tns4:Allergy	Allergy health record item type
tns4:AmountPrescribed [type Prescription]	Amount prescribed (number)

Name	Description
tns4:AmountPrescribedText [type Prescription]	Textual description of the amount (used if numeric value not available)
tns4:AmountPrescribedUnits [type Prescription]	Unit information for amount prescribed
tns4:AmountPrescribedUnitsCode [type Prescription]	Unit code
tns4:AnatomicLocation [type Procedure]	Anatomic location for the procedure
tns4:AnatomicLocationCode [type Procedure]	Anatomic location code
tns4:AnatomicSurface [type Immunization]	Anatomic surface
tns4:AnatomicSurfaceCode [type Immunization]	Anatomic surface code
tns2:anyType	Standard XML type
tns2:anyURI	Standard XML type
tns4:ApplicationId [type HealthRecordItem]	Application that created the item
tns4:ApplicationId [type HealthRecordProfile]	Application that created to health record profile
tns4:ApplicationId [type Person]	Application that created the Person
tns:ApplicationId	Unique Id of an application (required)
tns:ApplicationInfo [element GetApplicationInfoResponse]	Application information that has been stored in Taltioni
tns4:ApplicationInfo	Application information that has been stored in Taltioni
tns4:ArrayOfAllergy	Element array
tns4:ArrayOfCodedValue	Element array
tns4:ArrayOfCondition	Element array
tns4:ArrayOfCustomPropertyValue	Element array
tns4:ArrayOfHealthRecordFile	Element array
tns4:ArrayOfHealthRecordItemType	Element array
tns4:ArrayOfImmunization	Element array
tns4:ArrayOfItemInfo	Element array
tns4:ArrayOfLabTestResult	Element array
tns4:ArrayOfLabTestResultValue	Element array
tns4:ArrayOfMedication	Element array
tns5:ArrayOfMultiLanguageValueItem	Element array
tns4:ArrayOfObservation	Element array
tns4:ArrayOfObservationItem	Element array

**Elements**

Name	Description
tns4:ArrayOfObservationItemType	Element array
tns4:ArrayOfProcedure	Element array
tns4:ArrayOfStoreItemResult	Element array
tns6:ArrayOfString	Element array
tns4:AssignedDeviceId [type DeviceInformation]	Id of the assigned device
tns4:ATC [type Medication]	Anatomical Therapeutic Chemical classification system code
tns4:ATCCode [type Medication]	Link to ATC code
tns4:AuditInfo [type HealthRecordItem]	Audit information related to the health record item
tns4:AuditInfo [type HealthRecordProfile]	Audit information related to the health record profile
tns4:AuditInfo [type Person]	Audit information related to the person
tns4:AuditInfo	Audit information about a health record item
tns:AuthCode	Message authentication code. See Taltioni Developer Guide for generating the correct code.
tns4:AuthorizationDateTime [type AuthorizationInfo]	Date and time of the authorization (link between your application and the user)
tns:AuthorizationInfo [element GetAuthorizationInfoResponse]	Information about the connection between your application and the user
tns4:AuthorizationInfo	Information about the connection between your application and the user
tns2:base64Binary	Standard XML type
tns4:BloodType [type HealthRecordProfile]	Blood type of the person
tns4:BloodTypeCode [type HealthRecordProfile]	Blood type code
tns2:boolean	Standard XML type
tns4:BooleanValue [type CustomPropertyValue]	Boolean value
tns4:BooleanValue [type ObservationItem]	Boolean value
tns2:byte	Standard XML type
tns4:Category [type ApplicationInfo]	Application category
tns2:char	Standard XML type
tns:CheckPersonalIdentifierRequest	Request element for the operation
tns:CheckPersonalIdentifierResponse	Response element for the operation

Name	Description
tns4:ChoiceValue [type CustomPropertyValue]	Choice value
tns4:ChoiceValue [type ObservationItem]	Choice value
tns4:City [type HealthRecordProfile]	City of residence
tns4:City [type Person]	City of residence
tns3:Code [type ReceiverFault]	Fault code
tns3:Code [type SenderFault]	Fault code
tns4:CodedValue [type ArrayOfCodedValue]	Represents a code known to the service
tns4:CodedValue	Represents a code known to the service
tns:CodeFilter [element GetCodesRequest]	Code filter
tns4:CodeFilter	Code filter
tns:Codes [element GetCodesResponse]	Returned codes
tns4:Condition [type ArrayOfCondition]	Condition health record item type
tns4:Condition	Condition health record item type
tns4:Conditions [type HealthRecordData]	Condition array
tns4:ContentType [type HealthRecordFile]	Consent type
tns4:Country [type HealthRecordProfile]	Country of residence
tns4:Country [type Person]	Country of residence
tns4:County [type HealthRecordProfile]	Country of residence
tns4:County [type Person]	Country of residence
tns4:Created [type AuditInfo]	Date when the item was created
tns4:CreateDate [type ApplicationInfo]	Date when your application was added to the application registry
tns4:CreatedBy [type AuditInfo]	Creator of the item (not always available)
tns>CreateHealthRecordProfileRequest	Request element for the operation
tns>CreateHealthRecordProfileResponse	Response element for the operation
tns4:Culture [type HealthRecordProfile]	Culture in ISO culture code format (e.g. fi-FI)
tns4:Culture [type Person]	Culture in ISO culture code format (e.g. fi-FI)

**Elements**

<b>Name</b>	<b>Description</b>
tns4:CustomProperties [type HealthRecordProfile]	For future reference
tns4:CustomPropertyValue [type ArrayOfCustomPropertyValue]	For future reference
tns4:CustomPropertyValue	For future reference
tns4:Data [type HealthRecordFile]	File content (binary data)
tns4:DateDiscontinued [type Medication]	Date when the medication was discontinued
tns4:DateOfBirth [type HealthRecordProfile]	Date of birth
tns4:DateOfDeath [type HealthRecordProfile]	Date of death
tns4:DatePrescribed [type Prescription]	Date when the medication was prescribed to the person
tns4:DateStarted [type Medication]	Date when medication usage was started
tns2:dateTime	Standard XML type
tns4:DateValue [type CustomPropertyValue]	For future reference
tns4:DateValue [type ObservationItem]	Date value
tns4:DaysSupply [type Prescription]	How many days supply was prescribed
tns2:decimal	Standard XML type
tns4:DefaultBooleanValue [type DynamicPropertyInfo]	Default boolean value
tns4:DefaultChoiceValue [type DynamicPropertyInfo]	Default choice value
tns4:DefaultDateValue [type DynamicPropertyInfo]	Default date value
tns4:DefaultNumberValue [type DynamicPropertyInfo]	Default number value
tns4:DefaultTextValue [type DynamicPropertyInfo]	Default text value
tns:DeleteHealthRecordItemsRequest	Request element for the operation
tns:DeleteHealthRecordItemsResponse	Response element for the operation
tns4:DeleteItemsCount [type AuthorizationInfo]	Indicates how many delete items operations have been performed for the current authorization in total
tns4:Description [type ApplicationInfo]	Application description

Name	Description
tns4:Description [type DynamicPropertyInfo]	Free text additional information about the type
tns4:Description [type HealthRecordItemType]	Item type description
tns4:Description [type HealthRecordProfile]	Free text additional information about the profile
tns4:Description [type Person]	Free text additional information about the person
tns4:DetailedResults [type StoreItemsResult]	Detailed results for each item
tns4:DeviceInfo [type DeviceInformation]	Device information
tns4:DeviceInformation [type AuditInfo]	Device information
tns4:DeviceInformation	Device information
tns4:DeviceTypeId [type DeviceInformation]	Identifies the type of the device
tns4:DisplayText [type CodedValue]	Localized display text for the code
tns4:DocumentType [type HealthRecordFile]	Document type, valid for document files only
tns4:DocumentTypeCode [type HealthRecordFile]	Document type code
tns4:DoseForm [type Medication]	Dose form (free text)
tns4:DoseFormCode [type Medication]	Dose form code
tns2:double	Standard XML type
tns2:duration	Standard XML type
tns4:DynamicPropertyInfo	Detailed information of a dynamic property of an observation item or other dynamic type
tns4:EffectiveDateTime [type CustomPropertyValue]	For future reference
tns4:EffectiveDateTime [type HealthRecordItem]	Creation/measurement date of the item (required field, except for observation items)
tns4:EffectiveDateTime [type HealthRecordProfile]	Creation date (required)
tns4:EffectiveDateTime [type Person]	Creation date (required)
tns4:EmailAddress [type HealthRecordProfile]	Primary email address
tns4:EmailAddress [type Person]	Primary email address
tns4:EmailAddress2 [type HealthRecordProfile]	Secondary email address
tns4:EmailAddress2 [type Person]	Secondary email address

**Elements**

<b>Name</b>	<b>Description</b>
tns4:EmailAddress3 [type HealthRecordProfile]	Third email address
tns4:EmailAddress3 [type Person]	Third email address
tns4:EmailInfo [type HealthRecordProfile]	Additional information about the email addresses
tns4:EmailInfo [type Person]	Additional information about the email addresses
tns4:EmploymentStatus [type HealthRecordProfile]	Employment status free text
tns4:EmploymentStatusCode [type HealthRecordProfile]	Employment status code
tns:EndDateTime [element GetHealthRecordItemsPagedRequest]	Indicates the upper limit for the date restriction
tns:EndDateTime [element GetHealthRecordItemsRequest]	Indicates the upper limit for the date restriction
tns4:ErrorMessage [type StoreItemResult]	Error message related to the item
tns4:ErrorMessages [type StoreItemsResult]	List of errors that occurred while processing the store request
tns4:Ethnicity [type HealthRecordProfile]	Ethnicity free text
tns4:EthnicityCode [type HealthRecordProfile]	Ethnicity code
tns4:ExampleText [type DynamicPropertyInfo]	Example value for the type
tns:ExcludeObservationTypes [element GetHealthRecordItemTypesRequest]	Exclude dynamic observation types
tns:ExcludeStaticHealthRecordTypes [element GetHealthRecordItemTypesRequest]	Exclude static types, like Allergy and Medication
tns:ExpectedCount [element GetHealthRecordItemsPagedResponse]	Expected total number of items for the given criteria
tns4:ExpirationDate [type Immunization]	Expiration date for the immunization
tns4:ExternalId [type AuditInfo]	External identifier, applications can use the field to supply additional categorization for the item
tns4:ExternalId2 [type AuditInfo]	External identifier, applications can use the field to supply additional categorization for the item
tns4:Family [type CodedValue]	Code family (e.g. "RxNorm" or "ICD")
tns4:Family [type CodeFilter]	Code family (e.g. "RxNorm" or "ICD")
tns4:FileType [type HealthRecordFile]	File type

Name	Description
tns4:FileTypeCode [type HealthRecordFile]	File type code
tns:FilterByApplicationId [element GetHealthRecordItemRequest]	Request only items created by your application
tns:FilterByApplicationId [element GetHealthRecordItemsPagedRequest]	Request only items created by your application
tns:FilterByApplicationId [element GetHealthRecordItemsRequest]	Request only items created by your application
tns4:FirstName [type HealthRecordProfile]	First name (required)
tns4:FirstName [type Person]	First name (required)
tns4:FirstObserved [type Allergy]	Date when the allergy was first observed
tns2:float	Standard XML type
tns4:FormatString [type DynamicPropertyInfo]	Format string used when presenting the value as string (e.g. "{0:0}" for integer)
tns4:Frequency [type Medication]	Frequency for taking the medication
tns4:FrequencyText [type Medication]	Free text frequency description
tns4:FrequencyUnits [type Medication]	Frequency unit
tns4:FrequencyUnitsCode [type Medication]	Frequency unit code
tns4:FullName [type HealthRecordProfile]	Full name of the person (read-only, user first and last name to set the name)
tns4:FullName [type Person]	Full name of the person (read-only, user first and last name to set the name)
tns4:Gender [type HealthRecordProfile]	Gender of the person
tns4:Gender	Gender of the person
tns:GetApplicationInfoRequest	Request element for the operation
tns:GetApplicationInfoResponse	Response element for the operation
tns:GetAuthorizationInfoRequest	Request element for the operation
tns:GetAuthorizationInfoResponse	Response element for the operation
tns:GetCodesRequest	Request element for the operation
tns:GetCodesResponse	Response element for the operation
tns:GetHealthRecordItemRequest	Request element for the operation
tns:GetHealthRecordItemResponse	Response element for the operation
tns:GetHealthRecordItemsPagedRequest	Request element for the operation
tns:GetHealthRecordItemsPagedResponse	Response element for the operation



**Elements**

<b>Name</b>	<b>Description</b>
tns:GetHealthRecordItemsRequest	Request element for the operation
tns:GetHealthRecordItemsResponse	Response element for the operation
tns:GetHealthRecordItemTypesRequest	Request element for the operation
tns:GetHealthRecordItemTypesResponse	Response element for the operation
tns:GetHealthRecordProfileRequest	Request element for the operation
tns:GetHealthRecordProfileResponse	Response element for the operation
tns4:GetItemsCount [type AuthorizationInfo]	Number of get items operations performed for the authorization (user) in total
tns:GetLatestHealthRecordItemRequest	Request element for the operation
tns4:GetProfileCount [type AuthorizationInfo]	Number of get profile operations performed for the authorization (user) in total
tns:GetUserProfileRequest	Request element for the operation
tns:GetUserProfileResponse	Response element for the operation
tns2:guid	Globally unique identifier
tns:HealthRecordData [element GetHealthRecordItemResponse]	Container for health record items
tns:HealthRecordData [element GetHealthRecordItemsPagedResponse]	Container for health record items
tns:HealthRecordData [element GetHealthRecordItemsResponse]	Container for health record items
tns:HealthRecordData [element StoreHealthRecordItemsRequest]	Container for health record items
tns4:HealthRecordData	Container for health record items
tns4:HealthRecordFile [type ArrayOfHealthRecordFile]	Health record file
tns4:HealthRecordFile	File health record item type. File content is stored in property Data, which is only populated when the HealthRecordFile item is requested via the GetHealthRecordItem operation.
tns4:HealthRecordFiles [type HealthRecordData]	Health record file list
tns4:HealthRecordItem	Base type for health record items
tns:HealthRecordItems [element DeleteHealthRecordItemsRequest]	Health record item list
tns4:HealthRecordItemType [type ArrayOfHealthRecordItemType]	Health record item type
tns4:HealthRecordItemType	Health record item type

Name	Description
tns4:HealthRecordProfile	Health record profile
tns4:HighestEducationLevel [type HealthRecordProfile]	Highest education level (free text)
tns4:HighestEducationLevelCode [type HealthRecordProfile]	Code for education level
tns4:HomePhone [type HealthRecordProfile]	Home phone (syntax: +358501234567)
tns4:HomePhone [type Person]	Home phone (syntax: +358501234567)
tns4:Id [type CustomPropertyValue]	For future reference
tns4:Id [type HealthRecordItem]	Taltioni internal unique Id of the item
tns4:Id [type HealthRecordProfile]	Taltioni internal unique Id of the profile, not available for most applications
tns4:Id [type Person]	Taltioni internal unique Id of the person, not available for most applications
tns4:IdInSourceSystem [type AuditInfo]	Id of the item in the source system
tns4:IdInSourceSystem [type StoreItemResult]	Id of the item in the source system
tns4:Immunization [type ArrayOfImmunization]	Immunization health record item type
tns4:Immunization	Immunization health record item type
tns4:Immunizations [type HealthRecordData]	Immunization list
tns4:Instructions [type Prescription]	Instructions included in the prescription
tns4:InstructionsCode [type Prescription]	Code for prescription instructions
tns2:int	Standard XML type
tns4:InternalCodeId [type CodedValue]	Taltioni internal id for the code
tns4:InternalCodeId [type CodeFilter]	Taltioni internal id for the code
tns4:IsDeceased [type HealthRecordProfile]	Indicates if the person is deceased (dead)
tns4:IsDisabled [type HealthRecordProfile]	Indicates if the person is disabled (handicapped)
tns4:IsErrors [type StoreItemsResult]	Indicates if errors occurred during the store request
tns:IsMatch [element CheckPersonalIdentifierResponse]	Indicates whether the personal identifiers match; true if the identifier stored in your application is the same as the one stored in Taltioni.
tns4:IsNegated [type Allergy]	Indicates if the allergy is negated with treatment
tns4:IsObservation [type HealthRecordItemType]	Indicates if the type is a dynamic observation type
tns4:IsRequired [type DynamicPropertyInfo]	Indicates if a value is required for this item

**Elements**

<b>Name</b>	<b>Description</b>
tns4:IsText [type HealthRecordFile]	Indicates if the file content is text
tns4:IsTrafficRisk [type Medication]	Indicates if the medication causes a traffic risk and driving should be avoided
tns4:IsUserHealthRecordOwner [type AuthorizationInfo]	Indicates if the user is the owner of the health record
tns4:IsXml [type HealthRecordFile]	Indicates if the file content is Xml
tns:ItemId [element GetHealthRecordItemRequest]	Taltioni internal item id (GUID format)
tns4:ItemId [type ItemInfo]	Taltioni internal item id (GUID format)
tns4:ItemId [type StoreItemResult]	Taltioni internal item id (GUID format)
tns:ItemIdInSourceSystem [element GetHealthRecordItemRequest]	Identifier of the item in the source system
tns4:ItemInfo [type ArrayOfItemInfo]	Item type and id
tns4:ItemInfo	Item type and id
tns4:Items [type MultiLanguageValue]	Translations of the term
tns:ItemType [element GetHealthRecordItemRequest]	Health record item type
tns:ItemType [element GetHealthRecordItemsPagedRequest]	Health record item type
tns:ItemType [element GetLatestHealthRecordItemRequest]	Health record item type
tns4:ItemType [type ItemInfo]	Health record item type
tns4:ItemType [type StoreItemResult]	Health record item type
tns:ItemTypes [element GetHealthRecordItemsRequest]	Item types
tns:ItemTypes [element GetHealthRecordItemTypesResponse]	Item types
tns4:ItemValueType	Value type of the item (see section Simple Types for more information)
tns4:LaboratoryName [type LabTestResult]	Laboratory name
tns4:LabTestResult [type ArrayOfLabTestResult]	Lab test result health record item
tns4:LabTestResult	Lab test result health record item
tns4:LabTestResults [type HealthRecordData]	Lab test results
tns4:LabTestResultValue [type ArrayOfLabTestResultValue]	Represents a single value within a lab test result
tns4:LabTestResultValue	Represents a single value within a lab test result

Name	Description
tns4:LabTestResultValues [type LabTestResult]	Lab test values
tns5:LangCode [type MultiLanguageValueItem]	ISO two-letter language code (e.g. fi for Finnish)
tns4:Language [type HealthRecordProfile]	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Language [type Person]	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:LastName [type HealthRecordProfile]	Last name
tns4:LastName [type Person]	Last name
tns4:LastObserved [type Allergy]	Last observed date
tns4:LastUpdated [type AuditInfo]	Date when the item was last updated
tns4:LastUpdatedBy [type AuditInfo]	Id of the party who performed the update (not available to most applications)
tns2:long	Standard XML type
tns4:Lot [type Immunization]	Manufacturing lot
tns4:Manufacturer [type DeviceInformation]	Device manufacturer
tns4:Manufacturer [type Immunization]	Immunization medication manufacturer
tns4:Manufacturer [type Medication]	Medication manufacturer
tns4:ManufacturerCode [type Immunization]	Code for the manufacturer
tns4:MaritalStatus [type HealthRecordProfile]	Marital status (single, married, divorces, etc.)
tns4:MaritalStatusCode [type HealthRecordProfile]	Code for the marital status
tns4:MaxInclusive [type DynamicPropertyInfo]	Maximum value allowed for the item (applies to numeric values only)
tns4:MaxLength [type DynamicPropertyInfo]	Maximum length (applies to text values only)
tns4:MaxSelect [type DynamicPropertyInfo]	Maximum number of values that can be selected (applies to multiselect values only)
tns4:Measurement [type LabTestResultValue]	Lab test measurement value
tns4:MeasurementText [type LabTestResultValue]	Textual description of the measurement
tns4:MeasurementUnits [type LabTestResultValue]	Measurement unit
tns4:MeasurementUnitsCode [type LabTestResultValue]	Measurement unit code

**Elements**

Name	Description
tns4:Medication [type ArrayOfMedication]	Medication
tns4:Medication	Medication
tns4:MedicationName [type Immunization]	Name of the immunization medication
tns4:MedicationNameCode [type Immunization]	Link to medication code
tns4:Medications [type HealthRecordData]	Medication list
tns4:MiddleName [type HealthRecordProfile]	Middle name
tns4:MiddleName [type Person]	Middle name
tns4:MinInclusive [type DynamicPropertyInfo]	Minimum value allowed for the item (applies to numeric values only)
tns4:MinLength [type DynamicPropertyInfo]	Minimum number of values that can be selected (applies to multiselect values only)
tns4:MinSelect [type DynamicPropertyInfo]	Minimum number of values that can be selected (applies to multiselect values only)
tns4:MobilePhone [type HealthRecordProfile]	Mobile phone (primary)
tns4:MobilePhone [type Person]	Mobile phone (primary)
tns4:MobilePhone2 [type HealthRecordProfile]	Secondary mobile phone
tns4:MobilePhone2 [type Person]	Secondary mobile phone
tns4:MobilePhone3 [type HealthRecordProfile]	Third mobile phone
tns4:MobilePhone3 [type Person]	Third mobile phone
tns4:Model [type DeviceInformation]	Device model
tns4:MultiLanguageValue	Multi-language value contains the same text in multiple languages
tns5:MultiLanguageValueItem [type ArrayOfMultiLanguageValueItem]	Single translation of a multi-language text
tns5:MultiLanguageValueItem	Single translation of a multi-language text
tns4:Name [type Allergy]	Allergy name (required)
tns4:Name [type ApplicationInfo]	Application name
tns4:Name [type Condition]	Condition name (required)
tns4:Name [type DynamicPropertyInfo]	Detailed info
tns4:Name [type HealthRecordFile]	File name (required)
tns4:Name [type Immunization]	Immunization name (required)

Name	Description
tns4:Name [type LabTestResult]	Lab test result name (required)
tns4:Name [type LabTestResultValue]	Lab test value name (required)
tns4:Name [type Medication]	Medication name (required)
tns4:Name [type Procedure]	Procedure name (required)
tns4:NameCode [type Allergy]	Allergy code
tns4:NameCode [type Condition]	Condition code
tns4:NameCode [type DynamicPropertyInfo]	Value type code
tns4:NameCode [type HealthRecordFile]	Health record file code
tns4:NameCode [type Immunization]	Immunization code
tns4:NameCode [type LabTestResult]	Lab test result code
tns4:NameCode [type LabTestResultValue]	Lab test value code
tns4:NameCode [type Medication]	Medication code
tns4:NameCode [type Procedure]	Procedure code
tns4:Nationality [type HealthRecordProfile]	Nationality of the person (e.g. Finnish)
tns4:Nationality [type Person]	Nationality of the person (e.g. Finnish)
tns4:NationalityCode [type HealthRecordProfile]	Code for nationality
tns4:NationalityCode [type Person]	Code for nationality
tns4:Notes [type HealthRecordItem]	Additional free text notes about the item
tns4:NumberValue [type CustomPropertyValue]	For future reference
tns4:NumberValue [type ObservationItem]	Numeric value for the observation (required when value type is Number)
tns4:Observation [type ArrayOfObservation]	Observation
tns4:Observation	An observation about a person
tns4:ObservationItem [type ArrayOfObservationItem]	Observations consist of observation items that contain the actual observation values. Each observation has at least one observation item.
tns4:ObservationItem	Observations consist of observation items that contain the actual observation values. Each observation has at least one observation item.
tns4:ObservationItems [type Observation]	Observation items
tns4:ObservationItemType [type ArrayOfObservationItemType]	Observation item type

**Elements**

<b>Name</b>	<b>Description</b>
tns4:ObservationItemType	Observation item type contains metadata of the dynamic observation item type (e.g. systolic in blood pressure)
tns4:ObservationItemTypes [type HealthRecordItemType]	Observation item types
tns4:Observations [type HealthRecordData]	Observations
tns4:OnsetDate [type Condition]	Date of onset of the condition (first observed)
tns4:OperationAborted [type StoreItemsResult]	Indicates that the store operation was aborted due to errors
tns4:OrderedByName [type LabTestResult]	Name of the party that ordered the lab test
tns4:OrganizationId [type HealthRecordProfile]	Organization id (always empty for Taltioni users)
tns4:OrganizationId [type Person]	Organization id (always empty for Taltioni users)
tns4:OrganizationInfo [type HealthRecordProfile]	Organization information (always empty for Taltioni users)
tns4:OrganizationInfo [type Person]	Organization information (always empty for Taltioni users)
tns:Page [element GetHealthRecordItemsPagedRequest]	Indicates the page to fetch, must be a positive number
tns:PageSize [element GetHealthRecordItemsPagedRequest]	Indicates the page size, i.e. number of items to fetch
tns4:PerformerId [type AuditInfo]	Identifier of the party that performed (or recorded) the measurement or created the item
tns4:PerformerType [type AuditInfo]	Performer type (health record owner, laboratory, health care professional, etc.)
tns4:PerformerTypeCode [type AuditInfo]	Code for the performer type
tns4:Person	Person record, contains basic information about a person
tns4:PersonalId [type HealthRecordProfile]	Personal identifier (HETU, not available to most applications)
tns4:PersonalId [type Person]	Personal identifier (HETU, not available to most applications)
tns:PersonalIdentifier [element CheckPersonalIdentifierRequest]	Personal identifier (HETU)
tns:PersonId [element CreateHealthRecordProfileResponse]	Taltioni internal identifier of the health record
tns4:PersonType [type HealthRecordProfile]	Not applicable for health record owner
tns4:PersonType [type Person]	Indicates the relationship between the health record owner and the user
tns4:PersonTypeCode [type HealthRecordProfile]	Code for the person type

Name	Description
tns4:PersonTypeCode [type Person]	Code for the person type
tns4:PhoneInfo [type HealthRecordProfile]	Additional information about phone contact
tns4:PhoneInfo [type Person]	Additional information about phone contact
tns4:PostalCode [type HealthRecordProfile]	Postal code
tns4:PostalCode [type Person]	Postal code
tns4:Prescribed [type Medication]	Indicates whether the medication was prescribed or over-the counter
tns4:PrescribedCode [type Medication]	Code for the prescribed status
tns4:Prescription [type Medication]	Prescription information about the medication
tns4:Prescription	Prescription information about the medication
tns4:PrescriptionExpiration [type Prescription]	Expiration date of the prescription
tns4:PrimaryProviderName [type Procedure]	Primary provider of the medical procedure
tns4:Private [type HealthRecordItem]	Indicates if the item has been marked as private
tns4:PrivateDataAccessEnabled [type AuthorizationInfo]	Indicates if access to private items is allowed for your application
tns4:Procedure [type ArrayOfProcedure]	Procedure
tns4:Procedure	Medical procedure health record item type
tns4:Procedures [type HealthRecordData]	Procedure list
tns4:ProfessionalTraining [type HealthRecordProfile]	Not applicable for a health record owner
tns4:ProfessionalTraining [type Person]	Indicates the type of professional medical training the person has received
tns:Profile [element CreateHealthRecordProfileRequest]	Health record profile to create
tns:Profile [element GetHealthRecordProfileResponse]	Requested health record profile
tns:Profile [element UpdateHealthRecordProfileRequest]	Health record profile to update, field Id is mandatory
tns4:PropertyDefinition [type CustomPropertyValue]	For future reference
tns4:PropertyDefinitionId [type CustomPropertyValue]	For future reference
tns2:QName	Standard XML type
tns4:Reaction [type Allergy]	Description of the allergic reaction
tns4:ReactionCode [type Allergy]	Code for the allergic reaction



**Elements**

Name	Description
tns4:ReadAccessItemTypes [type ApplicationInfo]	Item types that your application can read
tns4:ReadAccessItemTypes [type AuthorizationInfo]	Item types that your application can read
tns4:ReadOnly [type HealthRecordItem]	Indicates if the item is read-only and cannot be updated
tns4:Reason [type Medication]	Reason for taking the medication
tns3:ReceiverFault	Indicates that the service could not process the request due to an unknown reason. Review message syntax and content before contacting the service provider.
tns:ReceiverFault	Indicates that the service could not process the request due to an unknown reason. Review message syntax and content before contacting the service provider.
tns3:ReceiverFaultCode	Code for the receiver fault
tns4:Refills [type Prescription]	Number of refills available
tns4:Region [type CodedValue]	Region where the code is used (FI for Finland)
tns4:Region [type CodeFilter]	Region where the code is used (FI for Finland)
tns4:Religion [type HealthRecordProfile]	Religion information
tns4:ReligionCode [type HealthRecordProfile]	Code for the religion
tns:RemoveApplicationAuthorization Request	Request element for the operation
tns:RemoveApplicationAuthorization Response	Response element for the operation
tns:RequestId	Globally unique identifier for the request
tns4:Route [type Immunization]	Immunization medical route
tns4:RouteCode [type Immunization]	Code for the immunization route
tns4:SecondaryProviderName [type Procedure]	Secondary provider for the medical operation
tns3:SenderFault	Indicates that the reason for the error is probably within your application, such as invalid message syntax or content.
tns:SenderFault	Indicates that the reason for the error is probably within your application, such as invalid message syntax or content.
tns3:SenderFaultCode	Code for the sender fault
tns4:Sequence [type Immunization]	Sequence information
tns4:SerialNumber [type DeviceInformation]	Serial number of the device
tns:ServiceDescription [element AboutResponse]	Service description

Name	Description
tns2:short	Standard XML type
tns4:SocialSecurityNumber [type HealthRecordProfile]	Social security number (not applicable in region Finland, PersonalId field is used to store HETU)
tns:SourceSystem [element GetHealthRecordItemRequest]	Source system for the data (system of origin)
tns4:SourceSystem [type AuditInfo]	Source system for the data (system of origin)
tns:StartDateTime [element GetHealthRecordItemsPagedRequest]	Restricts the results to items created on or after the start date
tns:StartDateTime [element GetHealthRecordItemsRequest]	Restricts the results to items created on or after the start date
tns4:State [type ApplicationInfo]	Application state
tns4:State [type HealthRecordProfile]	Health record state
tns4:State [type Person]	Person state
tns4:Status [type Condition]	Condition status
tns4:StatusCode [type Condition]	Code for the condition status
tns4:Step [type DynamicPropertyInfo]	Indicates the numeric step between values of this type (can be used to populate a select list of available values)
tns4:StopDate [type Condition]	Date when the condition was resolved
tns4:StopReason [type Condition]	Indicates how the condition was resolved
tns:StoreHealthRecordItemsRequest	Request element for the operation
tns:StoreHealthRecordItemsResponse	Response element for the operation
tns4:StoreItemResult [type ArrayOfStoreItemResult]	Store result for one specific item
tns4:StoreItemResult	Store result for one specific item
tns4:StoreItemsCount [type AuthorizationInfo]	Number of store items operations performed
tns:StoreItemsResult [element StoreHealthRecordItemsResponse]	Results of the operation
tns4:StoreItemsResult	Results of the operation
tns4:Street [type HealthRecordProfile]	Street
tns4:Street [type Person]	Street
tns4:Strength [type Medication]	Medication strength
tns6:string [type ArrayOfstring]	Standard XML type
tns2:string	Standard XML type
tns4:SubGroup [type CodedValue]	Code sub group, used to group related codesets
tns4:SubGroup [type CodeFilter]	Code sub group, used to group related codesets - sub group information for coded properties is available via the GetHealthRecordItemTypes operation

**Elements**

<b>Name</b>	<b>Description</b>
tns4:SubstanceAdministration [type Medication]	Substance administration information
tns4:Substitution [type Prescription]	Substitution information
tns4:SubstitutionCode [type Prescription]	Code for the substitution value
tns:Success [element DeleteHealthRecordItemsResponse]	Indicates if the items were deleted successfully
tns:Success [element RemoveApplicationAuthorizationResponse]	Indicates if the authorization was removed successfully
tns:Success [element UpdateHealthRecordProfileResponse]	Indicates if the health record profile was updates successfully
tns4:Success [type StoreItemResult]	Indicates if the item was stored successfully
tns4:Suffix [type HealthRecordProfile]	Person name suffix, such as educational degree
tns4:Suffix [type Person]	Person name suffix, such as educational degree
tns4:Tags [type HealthRecordItem]	Comma separated list of tags that can be used for categorizing the health record items
tns4:TextValue [type CustomPropertyValue]	For future reference
tns4:TextValue [type ObservationItem]	Text value for the observation (applicable if value type is text)
tns4:TextValueCode [type CustomPropertyValue]	Code for the text value
tns4:TextValueCode [type ObservationItem]	Code for the text value
tns4:TextValueCodeSubGroup [type DynamicPropertyInfo]	Indicates the code sub group that must be used for the codable value. Use a code that belongs to this sub group.
tns:Timestamp	Current timestamp as string, must be given as xsd:dateTime format in universal time (UTC). Example: 2013-01-01T17:00:00Z
tns4:TimeZone [type HealthRecordProfile]	Time zone of the person
tns4:TimeZone [type Person]	Time zone of the person
tns4:Title [type DynamicPropertyInfo]	Localized title for the value type
tns4:Title [type HealthRecordItemType]	Localized name of the item type
tns4:Title [type HealthRecordProfile]	Localized name of the item type
tns4:Title [type Person]	Title of the person, e.g. Dr.
tns4:Treatment [type Allergy]	Allergy treatment information
tns4:TreatmentCode [type Allergy]	Code for the treatment value
tns4:TreatmentProviderName [type Allergy]	Treatment provider name

Name	Description
tns4:TypeCode [type HealthRecordItemType]	Code for the item type
tns4:TypeCode [type ObservationItemType]	Code for the observation item type
tns4:TypeId [type HealthRecordItem]	Taltioni item type name for the item (required field for observations and observation items)
tns4:TypeId [type HealthRecordItemType]	Taltioni item type name
tns4:TypeId [type ObservationItemType]	Taltioni item type name
tns4:Unit [type CustomPropertyValue]	For future reference
tns4:Unit [type DynamicPropertyInfo]	Unit for the dynamic value
tns4:Unit [type ObservationItem]	Unit for the observation item (required for measurements)
tns4:UnitCode [type CustomPropertyValue]	For future reference
tns4:UnitCode [type DynamicPropertyInfo]	Code for the unit
tns4:UnitCode [type ObservationItem]	Code for the unit
tns4:UnitCodeSubGroup [type DynamicPropertyInfo]	Indicates the code sub group that must be used for the unit code. Use a code that belongs to this sub group.
tns2:unsignedByte	Standard XML type
tns2:unsignedInt	Standard XML type
tns2:unsignedLong	Standard XML type
tns2:unsignedShort	Standard XML type
tns:UpdateHealthRecordProfileRequest	Request element for the operation
tns:UpdateHealthRecordProfileResponse	Response element for the operation
tns4:UpdateProfileCount [type AuthorizationInfo]	Number of update profile operations performed
tns:UserProfile [element GetUserProfileResponse]	Requested user profile
tns4:Value [type CodedValue]	Code value (required)
tns4:Value [type CodeFilter]	Code value
tns5:Value [type MultiLanguageValueItem]	Localized text
tns4:ValueAsString [type CustomPropertyValue]	For future reference
tns4:ValueAsString [type ObservationItem]	String representation of the value (read-only field, use TextValue in store operations)

**Elements**

Name	Description
tns4:ValueType [type CustomPropertyValue]	For future reference
tns4:ValueType [type DynamicPropertyInfo]	Value type (see ItemValueType in Simple Types for more information)
tns4:ValueType [type ObservationItem]	Value type (read-only field, indicates the type of value accepted for this item, see Simple Types for more information)
tns4:ValueTypeInformation [type ObservationItemType]	Detailed information on the type of value required for this observation item
tns4:VendorDescription [type ApplicationInfo]	Vendor description
tns4:VendorId [type ApplicationInfo]	Vendor id
tns4:Version [type CodedValue]	Code version, e.g. 1.0
tns4:Version [type CodeFilter]	Code version, e.g. 1.0
tns4:Version [type HealthRecordItem]	Health record item version
tns4:VocabularyName [type CodedValue]	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:VocabularyName [type CodeFilter]	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:VoiceCallPhone [type HealthRecordProfile]	Not applicable in Taltioni
tns4:VoiceCallPhone [type Person]	Not applicable in Taltioni
tns4:WorkPhone [type HealthRecordProfile]	Work phone number
tns4:WorkPhone [type Person]	Work phone number
tns4:WriteAccessEnabled [type AuthorizationInfo]	Indicates if write access is enabled for the authorization. Write access is enabled for your application only if the user is the owner of the health record or has write access to it.
tns4:WriteAccessItemTypes [type ApplicationInfo]	Item types that your application can create and update
tns4:WriteAccessItemTypes [type AuthorizationInfo]	Item types that your application can create and update

**Element: tns4:AbbreviationText [type CodedValue]****Description**

Abbreviation for the coded value

**Derived By**

Type tns4:MultiLanguageValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

**Referenced By**

- Complex Type tns4:CodedValue

**Element: tns:AbortOnError [element StoreHealthRecordItemsRequest]****Description**

Indicates whether to abort the operation if an error occurs

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:StoreHealthRecordItemsRequest

**Element: tns>About****Description**

About action

**Derived By**

Restricting xsd:anyType

**Content Model**

Always empty.

**Element: tns>AboutResponse****Description**

About response action

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:ServiceDescription	xsd:string	0..1	Yes	Service description

**Element: tns4:AccessRights [type ApplicationInfo]****Description**

List of all access rights granted for the application

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns4:AccessRights [type AuthorizationInfo]****Description**

List of all access rights granted for the application for the current authorization (user)

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Referenced By**

- Complex Type tns4:AuthorizationInfo

**Element: tns:AccessToken****Description**

AccessToken received during the OAuth authorization procedure (required)

**Derived By**

Type xsd:string

**Element: tns4:ActiveIngredients [type Medication]****Description**

Active ingredients of a medication

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:AdditionalInfo [type DynamicPropertyInfo]****Description**

Free text field for additional info about the value type

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:AdditionalInfo [type HealthRecordFile]**



**Description**

Free text field for additional info about the file

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns4:AdditionalInfoAsXml [type HealthRecordItem]****Description**

Field for proprietary "ad-hoc" information in XML format

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Remarks**

Do not include an XML header with encoding information! Use the same encoding as for the whole request message (utf-8) and omit the header. A fault is returned if the value is not valid XML.

**Element: tns4:AdverseEffectTime [type Immunization]****Description**

The date when the adverse effect was observed

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:AdverseEvent [type Immunization]****Description**

Adverse events related to the immunization

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:AllergenCode [type Allergy]****Description**

Allergen code value

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:AllergenCodeCode [type Allergy]****Description**

Allergen code coded value

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:AllergenType [type Allergy]****Description**

Allergen type value

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:AllergenTypeCode [type Allergy]****Description**

Allergen type code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:Allergies [type HealthRecordData]****Description**

List of allergies

**Derived By**

Type tns4:ArrayOfAllergy

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Allergy	tns4:Allergy	0..*	Yes	Allergy health record item type

**Referenced By**

- Complex Type tns4:HealthRecordData

## Element: tns4:Allergy [type ArrayOfAllergy]

### Description

Allergy health record item type

### Derived By

Type tns4:Allergy

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:FirstObserved	xsd:dateTime	0..1	Yes	Date when the allergy was first observed
tns4:Name	xsd:string	1..1	Yes	Allergy name (required)
tns4:Reaction	xsd:string	0..1	Yes	Description of the allergic reaction
tns4:LastObserved	xsd:dateTime	0..1	Yes	Last observed date
tns4:AllergenType	xsd:string	0..1	Yes	Allergen type value

Component	Type	Occurs	Nilable?	Description
tns4:AllergenCode	xsd:string	0..1	Yes	Allergen code value
tns4:TreatmentProviderName	xsd:string	0..1	Yes	Treatment provider name
tns4:Treatment	xsd:string	0..1	Yes	Allergy treatment information
tns4:IsNegated	xsd:boolean	0..1	Yes	Indicates if the allergy is negated with treatment
tns4:AllergenCodeCode	tns4:CodedValue	0..1	Yes	Allergen code coded value
tns4:AllergenTypeCode	tns4:CodedValue	0..1	Yes	Allergen type code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Allergy code
tns4:ReactionCode	tns4:CodedValue	0..1	Yes	Code for the allergic reaction
tns4:TreatmentCode	tns4:CodedValue	0..1	Yes	Code for the treatment value

**Referenced By**

- Complex Type tns4:ArrayOfAllergy

**Element: tns4:Allergy****Description**

Allergy health record item type

**Derived By**

Type tns4:Allergy

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version

Component	Type	Occurs	Nilable?	Description
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInf oAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:FirstObserve d	xsd:dateTime	0..1	Yes	Date when the allergy was first observed
tns4:Name	xsd:string	1..1	Yes	Allergy name (required)
tns4:Reaction	xsd:string	0..1	Yes	Description of the allergic reaction
tns4:LastObserve d	xsd:dateTime	0..1	Yes	Last observed date
tns4:AllergenType	xsd:string	0..1	Yes	Allergen type value
tns4:AllergenCod e	xsd:string	0..1	Yes	Allergen code value
tns4:TreatmentPr oviderName	xsd:string	0..1	Yes	Treatment provider name
tns4:Treatment	xsd:string	0..1	Yes	Allergy treatment information
tns4:IsNegated	xsd:boolean	0..1	Yes	Indicates if the allergy is negated with treatment
tns4:AllergenCod eCode	tns4:CodedValue	0..1	Yes	Allergen code coded value
tns4:AllergenType Code	tns4:CodedValue	0..1	Yes	Allergen type code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Allergy code
tns4:ReactionCod e	tns4:CodedValue	0..1	Yes	Code for the allergic reaction
tns4:TreatmentCo de	tns4:CodedValue	0..1	Yes	Code for the treatment value

## Element: tns4:AmountPrescribed [type Prescription]

### Description

Amount prescribed (number)

**Derived By**

Type xsd:double

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns4:AmountPrescribedText [type Prescription]****Description**

Textual description of the amount (used if numeric value not available)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns4:AmountPrescribedUnits [type Prescription]****Description**

Unit information for amount prescribed

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns4:AmountPrescribedUnitsCode [type Prescription]****Description**

Unit code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.



Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns4:AnatomicLocation [type Procedure]****Description**

Anatomic location for the procedure

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Procedure

**Element: tns4:AnatomicLocationCode [type Procedure]****Description**

Anatomic location code

**Derived By**

Type tns4:CodedValue

## Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

## Referenced By

- Complex Type tns4:Procedure

## Element: tns4:AnatomicSurface [type Immunization]

### Description

Anatomic surface

### Derived By

Type xsd:string

## Referenced By

- Complex Type tns4:Immunization

## Element: tns4:AnatomicSurfaceCode [type Immunization]

### Description

Anatomic surface code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns2:anyType****Description**

Standard XML type

**Derived By**

Type xsd:anyType

**Content Model**

Always empty.

**Element: tns2:anyURI**

**Description**

Standard XML type

**Derived By**

Type xsd:anyURI

**Element: tns4:ApplicationId [type HealthRecordItem]****Description**

Application that created the item

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Element: tns4:ApplicationId [type HealthRecordProfile]****Description**

Application that created to health record profile

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:ApplicationId [type Person]****Description**

Application that created the Person

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns:ApplicationId****Description**

Unique Id of an application (required)

**Derived By**

Type xsd:string

**Element: tns:ApplicationInfo [element GetApplicationInfoResponse]****Description**

Application information that has been stored in Taltioni

**Derived By**

Type tns4:ApplicationInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:CreateDate	xsd:dateTime	0..1	No	Date when your application was added to the application registry
tns4:Name	xsd:string	0..1	Yes	Application name
tns4:Description	xsd:string	0..1	Yes	Application description
tns4:VendorId	xsd:string	0..1	Yes	Vendor id
tns4:VendorDescription	xsd:string	0..1	Yes	Vendor description
tns4:Category	xsd:string	0..1	Yes	Application category

Component	Type	Occurs	Nilable?	Description
tns4:State	xsd:string	0..1	Yes	Application state
tns4:AccessRights	tns6:ArrayOfstring	0..1	Yes	List of all access rights granted for the application
tns4:ReadAccessItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types that your application can read
tns4:WriteAccessItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types that your application can create and update

**Referenced By**

- Element tns:GetApplicationInfoResponse

**Element: tns4:ApplicationInfo****Description**

Application information that has been stored in Taltioni

**Derived By**

Type tns4:ApplicationInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:CreateDate	xsd:dateTime	0..1	No	Date when your application was added to the application registry
tns4:Name	xsd:string	0..1	Yes	Application name
tns4:Description	xsd:string	0..1	Yes	Application description
tns4:VendorId	xsd:string	0..1	Yes	Vendor id
tns4:VendorDescription	xsd:string	0..1	Yes	Vendor description
tns4:Category	xsd:string	0..1	Yes	Application category
tns4:State	xsd:string	0..1	Yes	Application state
tns4:AccessRights	tns6:ArrayOfstring	0..1	Yes	List of all access rights granted for the application
tns4:ReadAccessItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types that your application can read
tns4:WriteAccessItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types that your application can create and update

## Element: tns4:ArrayOfAllergy

### Description

Element array

### Derived By

Type tns4:ArrayOfAllergy

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Allergy	tns4:Allergy	0..*	Yes	Allergy health record item type

## Element: tns4:ArrayOfCodedValue

### Description

Element array

### Derived By

Type tns4:ArrayOfCodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:CodedValue	tns4:CodedValue	0..*	Yes	Represents a code known to the service

## Element: tns4:ArrayOfCondition

### Description

Element array

### Derived By

Type tns4:ArrayOfCondition

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Condition	tns4:Condition	0..*	Yes	Condition health record item type

## Element: tns4:ArrayOfCustomPropertyValue

### Description

Element array

### Derived By

Type tns4:ArrayOfCustomPropertyValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:CustomProperty Value	tns4:CustomProperty Value	0..*	Yes	For future reference

## Element: tns4:ArrayOfHealthRecordFile

### Description

Element array

### Derived By

Type tns4:ArrayOfHealthRecordFile

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:HealthRecord File	tns4:HealthRecordF ile	0..*	Yes	Health record file

## Element: tns4:ArrayOfHealthRecordItemType

### Description

Element array



**Derived By**

Type tns4:ArrayOfHealthRecordItemType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:HealthRecordItemType	tns4:HealthRecordItemType	0..*	Yes	Health record item type

**Element: tns4:ArrayOfImmunization****Description**

Element array

**Derived By**

Type tns4:ArrayOfImmunization

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Immunization	tns4:Immunization	0..*	Yes	Immunization health record item type

**Element: tns4:ArrayOfItemInfo****Description**

Element array

**Derived By**

Type tns4:ArrayOfItemInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ItemInfo	tns4:ItemInfo	0..*	Yes	Item type and id

## Element: tns4:ArrayOfLabTestResult

### Description

Element array

### Derived By

Type tns4:ArrayOfLabTestResult

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:LabTestResult	tns4:LabTestResult	0..*	Yes	Lab test result health record item

## Element: tns4:ArrayOfLabTestResultValue

### Description

Element array

### Derived By

Type tns4:ArrayOfLabTestResultValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:LabTestResultValue	tns4:LabTestResultValue	0..*	Yes	Represents a single value within a lab test result

## Element: tns4:ArrayOfMedication

### Description

Element array

### Derived By

Type tns4:ArrayOfMedication

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Medication	tns4:Medication	0..*	Yes	Medication

**Element: tns5:ArrayOfMultiLanguageValueItem****Description**

Element array

**Derived By**

Type tns5:ArrayOfMultiLanguageValueItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns5:MultiLanguageValueItem	tns5:MultiLanguageValueItem	0..*	Yes	Single translation of a multi-language text

**Element: tns4:ArrayOfObservation****Description**

Element array

**Derived By**

Type tns4:ArrayOfObservation

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observation	tns4:Observation	0..*	Yes	Observation

**Element: tns4:ArrayOfObservationItem**

**Description**

Element array

**Derived By**

Type tns4:ArrayOfObservationItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
SEQUENCE		1..1		
tns4:ObservationItem	tns4:ObservationItem	0..*	Yes	Observations consist of observation items that contain the actual observation values. Each observation has at least one observation item.

**Element: tns4:ArrayOfObservationItemType****Description**

Element array

**Derived By**

Type tns4:ArrayOfObservationItemType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
SEQUENCE		1..1		
tns4:ObservationItemType	tns4:ObservationItemType	0..*	Yes	Observation item type

**Element: tns4:ArrayOfProcedure****Description**

Element array

**Derived By**

Type tns4:ArrayOfProcedure

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Procedure	tns4:Procedure	0..*	Yes	Procedure

**Element: tns4:ArrayOfStoreItemResult****Description**

Element array

**Derived By**

Type tns4:ArrayOfStoreItemResult

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:StoreItemResult	tns4:StoreItemResult	0..*	Yes	Store result for one specific item

**Element: tns6:ArrayOfstring****Description**

Element array

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Element: tns4:AssignedDeviceId [type DeviceInformation]**

**Description**

Id of the assigned device

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DeviceInformation

**Element: tns4:ATC [type Medication]****Description**

Anatomical Therapeutic Chemical  
classification system code

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:ATCCode [type Medication]****Description**

Link to ATC code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)

Component	Type	Occurs	Nilable?	Description
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:Abbreviation Text	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCode Id	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:AuditInfo [type HealthRecordItem]****Description**

Audit information related to the health record item

**Derived By**

Type tns4:AuditInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Created	xsd:dateTime	0..1	Yes	Date when the item was created
tns4:LastUpdated	xsd:dateTime	0..1	Yes	Date when the item was last updated
tns4:CreatedBy	xsd:string	0..1	Yes	Creator of the item (not always available)
tns4:LastUpdated By	xsd:string	0..1	Yes	Id of the party who performed the update (not available to most applications)
tns4:PerformerType	xsd:string	0..1	Yes	Performer type (health record owner, laboratory, health care professional, etc.)
tns4:PerformerId	xsd:string	0..1	Yes	Identifier of the party that performed (or recorded) the measurement or created the item
tns4:PerformerTypeCode	tns4:CodedValue	0..1	Yes	Code for the performer type
tns4:SourceSystem	xsd:string	0..1	Yes	Source system for the data (system of origin)

Component	Type	Occurs	Nilable?	Description
tns4:IdInSourceSystem	xsd:string	0..1	Yes	Id of the item in the source system
tns4:ExternalId	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:ExternalId2	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:DeviceInformation	tns4:DeviceInformation	0..1	Yes	Device information

### Referenced By

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

## Element: tns4:AuditInfo [type HealthRecordProfile]

### Description

Audit information related to the health record profile

### Derived By

Type tns4:AuditInfo

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Created	xsd:dateTime	0..1	Yes	Date when the item was created
tns4:LastUpdated	xsd:dateTime	0..1	Yes	Date when the item was last updated



Component	Type	Occurs	Nilable?	Description
tns4:CreatedBy	xsd:string	0..1	Yes	Creator of the item (not always available)
tns4:LastUpdatedBy	xsd:string	0..1	Yes	Id of the party who performed the update (not available to most applications)
tns4:PerformerType	xsd:string	0..1	Yes	Performer type (health record owner, laboratory, health care professional, etc.)
tns4:PerformerId	xsd:string	0..1	Yes	Identifier of the party that performed (or recorded) the measurement or created the item
tns4:PerformerTypeCode	tns4:CodedValue	0..1	Yes	Code for the performer type
tns4:SourceSystem	xsd:string	0..1	Yes	Source system for the data (system of origin)
tns4:IdInSourceSystem	xsd:string	0..1	Yes	Id of the item in the source system
tns4:ExternalId	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:ExternalId2	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:DeviceInformation	tns4:DeviceInformation	0..1	Yes	Device information

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:AuditInfo [type Person]****Description**

Audit information related to the person

**Derived By**

Type tns4:AuditInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Created	xsd:dateTime	0..1	Yes	Date when the item was created
tns4:LastUpdated	xsd:dateTime	0..1	Yes	Date when the item was last updated

Component	Type	Occurs	Nilable?	Description
tns4:CreatedBy	xsd:string	0..1	Yes	Creator of the item (not always available)
tns4:LastUpdatedBy	xsd:string	0..1	Yes	Id of the party who performed the update (not available to most applications)
tns4:PerformerType	xsd:string	0..1	Yes	Performer type (health record owner, laboratory, health care professional, etc.)
tns4:PerformerId	xsd:string	0..1	Yes	Identifier of the party that performed (or recorded) the measurement or created the item
tns4:PerformerTypeCode	tns4:CodedValue	0..1	Yes	Code for the performer type
tns4:SourceSystem	xsd:string	0..1	Yes	Source system for the data (system of origin)
tns4:IdInSourceSystem	xsd:string	0..1	Yes	Id of the item in the source system
tns4:ExternalId	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:ExternalId2	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:DeviceInformation	tns4:DeviceInformation	0..1	Yes	Device information

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:AuditInfo****Description**

Audit information about a health record item

**Derived By**

Type tns4:AuditInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Created	xsd:dateTime	0..1	Yes	Date when the item was created
tns4:LastUpdated	xsd:dateTime	0..1	Yes	Date when the item was last updated

Component	Type	Occurs	Nilable?	Description
tns4:CreatedBy	xsd:string	0..1	Yes	Creator of the item (not always available)
tns4:LastUpdatedBy	xsd:string	0..1	Yes	Id of the party who performed the update (not available to most applications)
tns4:PerformerType	xsd:string	0..1	Yes	Performer type (health record owner, laboratory, health care professional, etc.)
tns4:PerformerId	xsd:string	0..1	Yes	Identifier of the party that performed (or recorded) the measurement or created the item
tns4:PerformerTypeCode	tns4:CodedValue	0..1	Yes	Code for the performer type
tns4:SourceSystem	xsd:string	0..1	Yes	Source system for the data (system of origin)
tns4:IdInSourceSystem	xsd:string	0..1	Yes	Id of the item in the source system
tns4:ExternalId	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:ExternalId2	xsd:string	0..1	Yes	External identifier, applications can use the field to supply additional categorization for the item
tns4:DeviceInformation	tns4:DeviceInformation	0..1	Yes	Device information

## Element: tns:AuthCode

### Description

Message authentication code. See Taltioni Developer Guide for generating the correct code.

### Derived By

Type xsd:base64Binary

## Element: tns4:AuthorizationDateTime [type AuthorizationInfo]

### Description

Date and time of the authorization (link between your application and the user)

### Derived By

Type xsd:dateTime

### Referenced By

- Complex Type tns4:AuthorizationInfo

## Element: tns:AuthorizationInfo [element GetAuthorizationInfoResponse]

### Description

Information about the connection between your application and the user

### Derived By

Type tns4:AuthorizationInfo

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:AuthorizationDateTime	xsd:dateTime	0..1	No	Date and time of the authorization (link between your application and the user)
tns4:IsUserHealthRecordOwner	xsd:boolean	0..1	No	Indicates if the user is the owner of the health record
tns4:WriteAccessEnabled	xsd:boolean	0..1	No	Indicates if write access is enabled for the authorization. Write access is enabled for your application only if the user is the owner of the health record or has write access to it.
tns4:PrivateDataAccessEnabled	xsd:boolean	0..1	No	Indicates if access to private items is allowed for your application
tns4:AccessRights	tns6:ArrayOfstrings	0..1	Yes	List of all access rights granted for the application for the current authorization (user)
tns4:ReadAccessItemTypes	tns6:ArrayOfstrings	0..1	Yes	Item types that your application can read
tns4:WriteAccessItemTypes	tns6:ArrayOfstrings	0..1	Yes	Item types that your application can create and update
tns4:GetItemsCount	xsd:int	0..1	No	Number of get items operations performed for the authorization (user) in total
tns4:StoreItemsCount	xsd:int	0..1	No	Number of store items operations performed
tns4:DeleteItemsCount	xsd:int	0..1	No	Indicates how many delete items operations have been performed for the current authorization in total
tns4:GetProfileCount	xsd:int	0..1	No	Number of get profile operations performed for the authorization (user) in total
tns4:UpdateProfileCount	xsd:int	0..1	No	Number of update profile operations performed

**Referenced By**

- Element tns:GetAuthorizationInfoResponse

**Element: tns4:AuthorizationInfo****Description**

Information about the connection between your application and the user

**Derived By**

Type tns4:AuthorizationInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:AuthorizationDateTime	xsd:dateTime	0..1	No	Date and time of the authorization (link between your application and the user)
tns4:IsUserHealthRecordOwner	xsd:boolean	0..1	No	Indicates if the user is the owner of the health record
tns4:WriteAccessEnabled	xsd:boolean	0..1	No	Indicates if write access is enabled for the authorization. Write access is enabled for your application only if the user is the owner of the health record or has write access to it.
tns4:PrivateDataAccessEnabled	xsd:boolean	0..1	No	Indicates if access to private items is allowed for your application
tns4:AccessRights	tns6:ArrayOfstrings	0..1	Yes	List of all access rights granted for the application for the current authorization (user)
tns4:ReadAccessItemTypes	tns6:ArrayOfstrings	0..1	Yes	Item types that your application can read
tns4:WriteAccessItemTypes	tns6:ArrayOfstrings	0..1	Yes	Item types that your application can create and update
tns4:GetItemsCount	xsd:int	0..1	No	Number of get items operations performed for the authorization (user) in total
tns4:StoreItemsCount	xsd:int	0..1	No	Number of store items operations performed
tns4:DeleteItemsCount	xsd:int	0..1	No	Indicates how many delete items operations have been performed for the current authorization in total

Component	Type	Occurs	Nilable?	Description
tns4:GetProfileCount	xsd:int	0..1	No	Number of get profile operations performed for the authorization (user) in total
tns4:UpdateProfileCount	xsd:int	0..1	No	Number of update profile operations performed

## Element: tns2:base64Binary

### Description

Standard XML type

### Derived By

Type xsd:base64Binary

## Element: tns4:BloodType [type HealthRecordProfile]

### Description

Blood type of the person

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:HealthRecordProfile

## Element: tns4:BloodTypeCode [type HealthRecordProfile]

### Description

Blood type code

### Derived By

Type tns4:CodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")

Component	Type	Occurs	Nilable?	Description
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns2:boolean****Description**

Standard XML type

**Derived By**

Type xsd:boolean

**Element: tns4:BooleanValue [type CustomPropertyValue]****Description**

Boolean value

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:BooleanValue [type ObservationItem]**

**Description**

Boolean value

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:ObservationItem

**Element: tns2:byte****Description**

Standard XML type

**Derived By**

Type xsd:byte

**Element: tns4:Category [type ApplicationInfo]****Description**

Application category

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns2:char****Description**

Standard XML type

**Derived By**

Type tns2:char

**Element: tns:CheckPersonalIdentifierRequest**



**Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:PersonalIdentifier	xsd:string	0..1	Yes	Personal identifier (HETU)

**Element: tns:CheckPersonalIdentifierResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:IsMatch	xsd:boolean	0..1	No	Indicates whether the personal identifiers match; true if the identifier stored in your application is the same as the one stored in Taltioni.

**Element: tns4:ChoiceValue [type CustomPropertyValue]****Description**

Choice value

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:ChoiceValue [type ObservationItem]****Description**

Choice value

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ObservationItem

**Element: tns4:City [type HealthRecordProfile]****Description**

City of residence

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:City [type Person]****Description**

City of residence

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns3:Code [type ReceiverFault]**

**Description**

Fault code

**Derived By**

Type tns3:ReceiverFaultCode

**Enumeration**

Value	Description
InternalServerError	

**Referenced By**

- Complex Type tns3:ReceiverFault

**Element: tns3:Code [type SenderFault]****Description**

Fault code

**Derived By**

Type tns3:SenderFaultCode

**Enumeration**

Value	Description
AccessDenied	
ValidationError	
MalformedRequest	

**Referenced By**

- Complex Type tns3:SenderFault

**Element: tns4:CodedValue [type ArrayOfCodedValue]****Description**

Represents a code known to the service

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:ArrayOfCodedValue

**Element: tns4:CodedValue****Description**

Represents a code known to the service

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0

Component	Type	Occurs	Nilable?	Description
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:Abbreviation Text	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCode Id	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

## Element: tns:CodeFilter [element GetCodesRequest]

### Description

Code filter

### Derived By

Type tns4:CodeFilter

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets - sub group information for coded properties is available via the GetHealthRecordItemTypes operation
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	0..1	Yes	Code value
tns4:InternalCode Id	xsd:string	0..1	Yes	Taltioni internal id for the code

### Referenced By

- Element tns:GetCodesRequest

## Element: tns4:CodeFilter

### Description

Code filter

### Derived By

Type tns4:CodeFilter

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets - sub group information for coded properties is available via the GetHealthRecordItemTypes operation
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	0..1	Yes	Code value
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code

## Element: tns:Codes [element GetCodesResponse]

### Description

Returned codes

### Derived By

Type tns4:ArrayOfCodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:CodedValue	tns4:CodedValue	0..*	Yes	Represents a code known to the service

**Referenced By**

- Element tns:GetCodesResponse

**Element: tns4:Condition [type ArrayOfCondition]****Description**

Condition health record item type

**Derived By**

Type tns4:Condition

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Condition name (required)
tns4:OnsetDate	xsd:dateTime	0..1	Yes	Date of onset of the condition (first observed)
tns4:Status	xsd:string	0..1	Yes	Condition status
tns4:StopDate	xsd:dateTime	0..1	Yes	Date when the condition was resolved

Component	Type	Occurs	Nilable?	Description
tns4:StopReason	xsd:string	0..1	Yes	Indicates how the condition was resolved
tns4:NameCode	tns4:CodedValue	0..1	Yes	Condition code
tns4:StatusCode	tns4:CodedValue	0..1	Yes	Code for the condition status

**Referenced By**

- Complex Type tns4:ArrayOfCondition

**Element: tns4:Condition****Description**

Condition health record item type

**Derived By**

Type tns4:Condition

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item



Component	Type	Occurs	Nilable?	Description
tns4:Name	xsd:string	1..1	Yes	Condition name (required)
tns4:OnsetDate	xsd:dateTime	0..1	Yes	Date of onset of the condition (first observed)
tns4:Status	xsd:string	0..1	Yes	Condition status
tns4:StopDate	xsd:dateTime	0..1	Yes	Date when the condition was resolved
tns4:StopReason	xsd:string	0..1	Yes	Indicates how the condition was resolved
tns4:NameCode	tns4:CodedValue	0..1	Yes	Condition code
tns4:StatusCode	tns4:CodedValue	0..1	Yes	Code for the condition status

## Element: tns4:Conditions [type HealthRecordData]

### Description

Condition array

### Derived By

Type tns4:ArrayOfCondition

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Condition	tns4:Condition	0..*	Yes	Condition health record item type

### Referenced By

- Complex Type tns4:HealthRecordData

## Element: tns4:ContentType [type HealthRecordFile]

### Description

Consent type

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:HealthRecordFile

**Element: tns4:Country [type HealthRecordProfile]****Description**

Country of residence

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Country [type Person]****Description**

Country of residence

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:County [type HealthRecordProfile]****Description**

Country of residence

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:County [type Person]****Description**

Country of residence

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Created [type AuditInfo]****Description**

Date when the item was created

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4:CreateDate [type ApplicationInfo]****Description**

Date when your application was added to the application registry

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns4:CreatedBy [type AuditInfo]****Description**

Creator of the item (not always available)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns>CreateHealthRecordProfileRequest**

**Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Profile	tns4:HealthRecord Profile	0..1	Yes	Health record profile to create

**Element: tns:CreateHealthRecordProfileResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:PersonId	xsd:string	0..1	Yes	Taltioni internal identifier of the health record

**Element: tns4:Culture [type HealthRecordProfile]****Description**

Culture in ISO culture code format (e.g. fi-FI)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

## Element: tns4:Culture [type Person]

### Description

Culture in ISO culture code format (e.g. fi-FI)

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:Person

## Element: tns4:CustomProperties [type HealthRecordProfile]

### Description

For future reference

### Derived By

Type tns4:ArrayOfCustomPropertyValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:CustomProperty Value	tns4:CustomProperty Value	0..*	Yes	For future reference

### Referenced By

- Complex Type tns4:HealthRecordProfile

## Element: tns4:CustomPropertyValue [type ArrayOfCustomPropertyValue]

### Description

For future reference

### Derived By

Type tns4:CustomPropertyValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Id	xsd:string	0..1	Yes	For future reference
tns4:PropertyDefinition	tns4:DynamicPropertyInfo	0..1	Yes	For future reference
tns4:PropertyDefinitionId	xsd:string	0..1	Yes	For future reference
tns4:ValueType	tns4:ItemValueType	1..1	No	For future reference
tns4:ChoiceValue	xsd:string	0..1	Yes	Choice value
tns4:TextValue	xsd:string	0..1	Yes	For future reference
tns4:TextValueCode	tns4:CodedValue	0..1	Yes	Code for the text value
tns4:NumberValue	xsd:double	0..1	Yes	For future reference
tns4:DateValue	xsd:dateTime	0..1	Yes	For future reference
tns4:BooleanValue	xsd:boolean	0..1	Yes	Boolean value
tns4:ValueAsString	xsd:string	0..1	Yes	For future reference
tns4:Unit	xsd:string	0..1	Yes	For future reference
tns4:UnitCode	tns4:CodedValue	0..1	Yes	For future reference
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	For future reference

**Referenced By**

- Complex Type tns4:ArrayOfCustomPropertyValue

**Element: tns4:CustomPropertyValue****Description**

For future reference

**Derived By**

Type tns4:CustomPropertyValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Id	xsd:string	0..1	Yes	For future reference
tns4:PropertyDefinition	tns4:DynamicPropertyInfo	0..1	Yes	For future reference
tns4:PropertyDefinitionId	xsd:string	0..1	Yes	For future reference
tns4:ValueType	tns4:ItemValueType	1..1	No	For future reference
tns4:ChoiceValue	xsd:string	0..1	Yes	Choice value
tns4:TextValue	xsd:string	0..1	Yes	For future reference
tns4:TextValueCode	tns4:CodedValue	0..1	Yes	Code for the text value
tns4:NumberValue	xsd:double	0..1	Yes	For future reference
tns4:DateValue	xsd:dateTime	0..1	Yes	For future reference
tns4:BooleanValue	xsd:boolean	0..1	Yes	Boolean value
tns4:ValueAsString	xsd:string	0..1	Yes	For future reference
tns4:Unit	xsd:string	0..1	Yes	For future reference
tns4:UnitCode	tns4:CodedValue	0..1	Yes	For future reference
tns4:EffectiveDate	xsd:dateTime	0..1	Yes	For future reference

## Element: tns4:Data [type HealthRecordFile]

### Description

File content (binary data)

### Derived By

Type xsd:base64Binary

### Referenced By

- Complex Type tns4:HealthRecordFile

## Element: tns4:DateDiscontinued [type Medication]

### Description

Date when the medication was discontinued

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:DateOfBirth [type HealthRecordProfile]****Description**

Date of birth

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:DateOfDeath [type HealthRecordProfile]****Description**

Date of death

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:DatePrescribed [type Prescription]****Description**

Date when the medication was prescribed to the person

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Prescription



**Element: tns4:DateStarted [type Medication]****Description**

Date when medication usage was started

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Medication

**Element: tns2:dateTime****Description**

Standard XML type

**Derived By**

Type xsd:dateTime

**Element: tns4:DateValue [type CustomPropertyValue]****Description**

For future reference

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:DateValue [type ObservationItem]****Description**

Date value

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:ObservationItem

## Element: tns4:DaysSupply [type Prescription]

### Description

How many days supply was prescribed

### Derived By

Type xsd:int

### Referenced By

- Complex Type tns4:Prescription

## Element: tns2:decimal

### Description

Standard XML type

### Derived By

Type xsd:decimal

## Element: tns4:DefaultBooleanValue [type DynamicPropertyInfo]

### Description

Default boolean value

### Derived By

Type xsd:boolean

### Referenced By

- Complex Type tns4:DynamicPropertyInfo

## Element: tns4:DefaultChoiceValue [type DynamicPropertyInfo]

### Description

Default choice value

### Derived By

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:DefaultDateValue [type DynamicPropertyInfo]****Description**

Default date value

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:DefaultNumberValue [type DynamicPropertyInfo]****Description**

Default number value

**Derived By**

Type xsd:double

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:DefaultTextValue [type DynamicPropertyInfo]****Description**

Default text value

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns:DeleteHealthRecordItemsRequest**

**Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecordItems	tns4:ArrayOfItemInfo	0..1	Yes	Health record item list

**Element: tns:DeleteHealthRecordItemsResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Success	xsd:boolean	0..1	No	Indicates if the items were deleted successfully

**Element: tns4:DeleteItemsCount [type AuthorizationInfo]****Description**

Indicates how many delete items operations have been performed for the current authorization in total

**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:AuthorizationInfo

## Element: tns4:Description [type ApplicationInfo]

### Description

Application description

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:ApplicationInfo

## Element: tns4:Description [type DynamicPropertyInfo]

### Description

Free text additional information about the type

### Derived By

Type tns4:MultiLanguageValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

### Referenced By

- Complex Type tns4:DynamicPropertyInfo

## Element: tns4:Description [type HealthRecordItemType]

### Description

Item type description

### Derived By

Type tns4:MultiLanguageValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

**Referenced By**

- Complex Type tns4:HealthRecordItemType

**Element: tns4:Description [type HealthRecordProfile]****Description**

Free text additional information about the profile

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Description [type Person]****Description**

Free text additional information about the person

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:DetailedResults [type StoreItemsResult]****Description**

Detailed results for each item

**Derived By**

Type tns4:ArrayOfStoreItemResult

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:StoreItemResult	tns4:StoreItemResult	0..*	Yes	Store result for one specific item

**Referenced By**

- Complex Type tns4:StoreItemsResult

**Element: tns4:DeviceInfo [type DeviceInformation]****Description**

Device information

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DeviceInformation

**Element: tns4:DeviceInformation [type AuditInfo]****Description**

Device information

**Derived By**

Type tns4:DeviceInformation

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:SerialNumber	xsd:string	0..1	Yes	Serial number of the device

Component	Type	Occurs	Nilable?	Description
tns4:Manufacturer	xsd:string	0..1	Yes	Device manufacturer
tns4:Model	xsd:string	0..1	Yes	Device model
tns4:DeviceTypeI d	xsd:string	0..1	Yes	Identifies the type of the device
tns4:AssignedDev iceld	xsd:string	0..1	Yes	Id of the assigned device
tns4:DeviceInfo	xsd:string	0..1	Yes	Device information

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4:DeviceInformation****Description**

Device information

**Derived By**

Type tns4:DeviceInformation

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:SerialNumbe r	xsd:string	0..1	Yes	Serial number of the device
tns4:Manufacturer	xsd:string	0..1	Yes	Device manufacturer
tns4:Model	xsd:string	0..1	Yes	Device model
tns4:DeviceTypeI d	xsd:string	0..1	Yes	Identifies the type of the device
tns4:AssignedDev iceld	xsd:string	0..1	Yes	Id of the assigned device
tns4:DeviceInfo	xsd:string	0..1	Yes	Device information

**Element: tns4:DeviceTypeI [type DeviceInformation]****Description**

Identifies the type of the device



**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DeviceInformation

**Element: tns4:DisplayText [type CodedValue]****Description**

Localized display text for the code

**Derived By**

Type tns4:MultiLanguageValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

**Referenced By**

- Complex Type tns4:CodedValue

**Element: tns4:DocumentType [type HealthRecordFile]****Description**

Document type, valid for document files only

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns4:DocumentTypeCode [type HealthRecordFile]**

**Description**

Document type code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns4:DoseForm [type Medication]****Description**

Dose form (free text)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

## Element: tns4:DoseFormCode [type Medication]

### Description

Dose form code

### Derived By

Type tns4:CodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

### Referenced By

- Complex Type tns4:Medication

## Element: tns2:double

### Description

Standard XML type

### Derived By

Type xsd:double

## Element: tns2:duration

**Description**

Standard XML type

**Derived By**

Type tns2:duration

**Restrictions**

- Value must match the following pattern: \-?P(\d\*D)?(T(\d\*H)?(\d\*M)?(\d\*(\.\d\*)?S)?)?
- The value must be greater than or equal to -P10675199DT2H48M5.4775808S.
- The value must be less than or equal to P10675199DT2H48M5.4775807S.

**Element: tns4:DynamicPropertyInfo****Description**

Detailed information of a dynamic property of an observation item or other dynamic type

**Derived By**

Type tns4:DynamicPropertyInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Niltable?	Description
SEQUENCE		1..1		
tns4:IsRequired	xsd:boolean	1..1	No	Indicates if a value is required for this item
tns4:Name	xsd:string	1..1	Yes	Detailed info
tns4:NameCode	tns4:CodedValue	0..1	Yes	Value type code
tns4:Title	tns4:MultiLanguage Value	0..1	Yes	Localized title for the value type
tns4:Description	tns4:MultiLanguage Value	0..1	Yes	Free text additional information about the type
tns4:ExampleText	tns4:MultiLanguage Value	0..1	Yes	Example value for the type
tns4:ValueType	tns4:ItemValueType	1..1	No	Value type (see ItemValueType in Simple Types for more information)
tns4:Unit	xsd:string	0..1	Yes	Unit for the dynamic value
tns4:UnitCode	tns4:CodedValue	0..1	Yes	Code for the unit
tns4:DefaultChoiceValue	xsd:string	0..1	Yes	Default choice value

Component	Type	Occurs	Nilable?	Description
tns4:DefaultTextValue	xsd:string	0..1	Yes	Default text value
tns4:DefaultNumberValue	xsd:double	0..1	Yes	Default number value
tns4:DefaultDateValue	xsd:string	0..1	Yes	Default date value
tns4:DefaultBooleanValue	xsd:boolean	0..1	Yes	Default boolean value
tns4:MinInclusive	xsd:double	0..1	Yes	Minimum value allowed for the item (applies to numeric values only)
tns4:MaxInclusive	xsd:double	0..1	Yes	Maximum value allowed for the item (applies to numeric values only)
tns4:MinSelect	xsd:int	0..1	Yes	Minimum number of values that can be selected (applies to multiselect values only)
tns4:MaxSelect	xsd:int	0..1	Yes	Maximum number of values that can be selected (applies to multiselect values only)
tns4:Step	xsd:double	0..1	Yes	Indicates the numeric step between values of this type (can be used to populate a select list of available values)
tns4:FormatString	xsd:string	0..1	Yes	Format string used when presenting the value as string (e.g. "{0:0}" for integer)
tns4:MinLength	xsd:int	0..1	Yes	Minimum number of values that can be selected (applies to multiselect values only)
tns4:MaxLength	xsd:int	0..1	Yes	Maximum length (applies to text values only)
tns4:AdditionalInfo	xsd:string	0..1	Yes	Free text field for additional info about the value type
tns4:TextValueCodeSubGroup	xsd:string	0..1	Yes	Indicates the code sub group that must be used for the codable value. Use a code that belongs to this sub group.
tns4:UnitCodeSubGroup	xsd:string	0..1	Yes	Indicates the code sub group that must be used for the unit code. Use a code that belongs to this sub group.

## Element: tns4:EffectiveDateTime [type CustomPropertyValue]

### Description

For future reference

### Derived By

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:EffectiveDateTime [type HealthRecordItem]****Description**

Creation/measurement date of the item (required field, except for observation items)

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Element: tns4:EffectiveDateTime [type HealthRecordProfile]****Description**

Creation date (required)

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:EffectiveDateTime [type Person]**

**Description**

Creation date (required)

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:EmailAddress [type HealthRecordProfile]****Description**

Primary email address

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:EmailAddress [type Person]****Description**

Primary email address

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:EmailAddress2 [type HealthRecordProfile]****Description**

Secondary email address

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:EmailAddress2 [type Person]****Description**

Secondary email address

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:EmailAddress3 [type HealthRecordProfile]****Description**

Third email address

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:EmailAddress3 [type Person]****Description**

Third email address

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:EmailInfo [type HealthRecordProfile]**



**Description**

Additional information about the email addresses

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:EmailInfo [type Person]****Description**

Additional information about the email addresses

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:EmploymentStatus [type HealthRecordProfile]****Description**

Employment status free text

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:EmploymentStatusCode [type HealthRecordProfile]****Description**

Employment status code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns:EndTime [element GetHealthRecordItemsPagedRequest]****Description**

Indicates the upper limit for the date restriction

**Derived By**

Type xsd:dateTime

**Referenced By**

- Element tns:GetHealthRecordItemsPagedRequest

**Element: tns:EndTime [element GetHealthRecordItemsRequest]****Description**

Indicates the upper limit for the date restriction

**Derived By**

Type xsd:dateTime

**Referenced By**

- Element tns:GetHealthRecordItemsRequest

**Element: tns4:ErrorMessage [type StoreItemResult]****Description**

Error message related to the item

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:StoreItemResult

**Element: tns4:ErrorMessages [type StoreItemsResult]****Description**

List of errors that occurred while processing the store request

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Referenced By**

- Complex Type tns4:StoreItemsResult

**Element: tns4:Ethnicity [type HealthRecordProfile]****Description**

Ethnicity free text

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:EthnicityCode [type HealthRecordProfile]****Description**

Ethnicity code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:ExampleText [type DynamicPropertyInfo]**

**Description**

Example value for the type

**Derived By**

Type tns4:MultiLanguageValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns:ExcludeObservationTypes [element GetHealthRecordItemTypesRequest]****Description**

Exclude dynamic observation types

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:GetHealthRecordItemTypesRequest

**Element: tns:ExcludeStaticHealthRecordTypes [element GetHealthRecordItemTypesRequest]****Description**

Exclude static types, like Allergy and Medication

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:GetHealthRecordItemTypesRequest

**Element: tns:ExpectedCount [element GetHealthRecordItemsPagedResponse]****Description**

Expected total number of items for the given criteria

**Derived By**

Type xsd:int

**Referenced By**

- Element tns:GetHealthRecordItemsPagedResponse

**Element: tns4:ExpirationDate [type Immunization]****Description**

Expiration date for the immunization

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:ExternalId [type AuditInfo]****Description**

External identifier, applications can use the field to supply additional categorization for the item

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4:ExternalId2 [type AuditInfo]**

**Description**

External identifier, applications can use the field to supply additional categorization for the item

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4:Family [type CodedValue]****Description**

Code family (e.g. "RxNorm" or "ICD")

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodedValue

**Element: tns4:Family [type CodeFilter]****Description**

Code family (e.g. "RxNorm" or "ICD")

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodeFilter

**Element: tns4:FileType [type HealthRecordFile]****Description**

File type

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns4:FileTypeCode [type HealthRecordFile]****Description**

File type code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns:FilterByApplicationId [element GetHealthRecordItemRequest]****Description**

Request only items created by your application



**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:GetHealthRecordItemRequest

**Element: tns:FilterByApplicationId [element  
GetHealthRecordItemsPagedRequest]****Description**

Request only items created by your application

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:GetHealthRecordItemsPagedRequest

**Element: tns:FilterByApplicationId [element  
GetHealthRecordItemsRequest]****Description**

Request only items created by your application

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:GetHealthRecordItemsRequest

**Element: tns4:FirstName [type HealthRecordProfile]****Description**

First name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:FirstName [type Person]****Description**

First name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:FirstObserved [type Allergy]****Description**

Date when the allergy was first observed

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns2:float****Description**

Standard XML type

**Derived By**

Type xsd:float

**Element: tns4:FormatString [type DynamicPropertyInfo]****Description**

Format string used when presenting the value as string (e.g. "{0:0}" for integer)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:Frequency [type Medication]****Description**

Frequency for taking the medication

**Derived By**

Type xsd:double

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:FrequencyText [type Medication]****Description**

Free text frequency description

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:FrequencyUnits [type Medication]****Description**

Frequency unit

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

## Element: tns4:FrequencyUnitsCode [type Medication]

### Description

Frequency unit code

### Derived By

Type tns4:CodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

### Referenced By

- Complex Type tns4:Medication

## Element: tns4:FullName [type HealthRecordProfile]

### Description

Full name of the person (read-only, user first and last name to set the name)

### Derived By

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:FullName [type Person]****Description**

Full name of the person (read-only, user first and last name to set the name)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Gender [type HealthRecordProfile]****Description**

Gender of the person

**Derived By**

Type tns4:Gender

**Enumeration**

Value	Description
Female	
Male	
Undefined	
Unknown	

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Gender****Description**

Gender of the person

**Derived By**

Type tns4:Gender

**Enumeration**

Value	Description
Female	
Male	
Undefined	
Unknown	

**Element: tns:GetApplicationInfoRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Always empty.

**Element: tns:GetApplicationInfoResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:ApplicationInfo	tns4:ApplicationInfo	0..1	Yes	Application information that has been stored in Taltioni

**Element: tns:GetAuthorizationInfoRequest**

**Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Always empty.

**Element: tns:GetAuthorizationInfoResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
SEQUENCE		1..1		
tns:AuthorizationInfo	tns4:AuthorizationInfo	0..1	Yes	Information about the connection between your application and the user

**Element: tns:GetCodesRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
SEQUENCE		1..1		
tns:CodeFilter	tns4:CodeFilter	0..1	Yes	Code filter

## Element: tns:GetCodesResponse

### Description

Response element for the operation

### Derived By

Restricting xsd:anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Codes	tns:ArrayOfCodedValue	0..1	Yes	Returned codes

## Element: tns:GetHealthRecordItemRequest

### Description

Request element for the operation

### Derived By

Restricting xsd:anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:ItemType	xsd:string	0..1	Yes	Health record item type
tns:ItemId	xsd:string	0..1	Yes	Taltioni internal item id (GUID format)
tns:SourceSystem	xsd:string	0..1	Yes	Source system for the data (system of origin)
tns:ItemIdInSourceSystem	xsd:string	0..1	Yes	Identifier of the item in the source system
tns:FilterByApplicationId	xsd:boolean	0..1	No	Request only items created by your application

## Element: tns:GetHealthRecordItemResponse



**Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecord Data	tns4:HealthRecord Data	0..1	Yes	Container for health record items

**Element: tns:GetHealthRecordItemsPagedRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:StartDateTime	xsd:dateTime	0..1	Yes	Restricts the results to items created on or after the start date
tns:EndDateTime	xsd:dateTime	0..1	Yes	Indicates the upper limit for the date restriction
tns:PageSize	xsd:int	0..1	No	Indicates the page size, i.e. number of items to fetch
tns:Page	xsd:int	0..1	No	Indicates the page to fetch, must be a positive number
tns:ItemType	xsd:string	0..1	Yes	Health record item type
tns:FilterByApplicationId	xsd:boolean	0..1	No	Request only items created by your application

**Element: tns:GetHealthRecordItemsPagedResponse**

**Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecord Data	tns4:HealthRecord Data	0..1	Yes	Container for health record items
tns:ExpectedCount	xsd:int	0..1	No	Expected total number of items for the given criteria

**Element: tns:GetHealthRecordItemsRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:StartDateTime	xsd:dateTime	0..1	Yes	Restricts the results to items created on or after the start date
tns:EndDateTime	xsd:dateTime	0..1	Yes	Indicates the upper limit for the date restriction
tns:ItemTypes	tns6:ArrayOfstring	0..1	Yes	Item types
tns:FilterByApplicationId	xsd:boolean	0..1	No	Request only items created by your application

**Element: tns:GetHealthRecordItemsResponse**

**Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecord Data	tns4:HealthRecord Data	0..1	Yes	Container for health record items

**Element: tns:GetHealthRecordItemTypesRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:ExcludeObservationTypes	xsd:boolean	0..1	No	Exclude dynamic observation types
tns:ExcludeStaticHealthRecordTypes	xsd:boolean	0..1	No	Exclude static types, like Allergy and Medication

**Element: tns:GetHealthRecordItemTypesResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:itemTypes	tns4:ArrayOfHealthRecordItemType	0..1	Yes	Item types

**Element: tns:GetHealthRecordProfileRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Always empty.

**Element: tns:GetHealthRecordProfileResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Profile	tns4:HealthRecordProfile	0..1	Yes	Requested health record profile

**Element: tns4:GetItemsCount [type AuthorizationInfo]****Description**

Number of get items operations performed for the authorization (user) in total

**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:AuthorizationInfo

**Element: tns:GetLatestHealthRecordItemRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:ItemType	xsd:string	0..1	Yes	Health record item type

**Element: tns4:GetProfileCount [type AuthorizationInfo]****Description**

Number of get profile operations performed for the authorization (user) in total

**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:AuthorizationInfo

**Element: tns:GetUserProfileRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Always empty.

**Element: tns:GetUserProfileResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:UserProfile	tns4:Person	0..1	Yes	Requested user profile

**Element: tns2:guid****Description**

Globally unique identifier

**Derived By**

Type tns2:guid

**Restrictions**

- Value must match the following pattern: `[da-fA-F]{8}-[da-fA-F]{4}-[da-fA-F]{4}-[da-fA-F]{4}-[da-fA-F]{12}`

**Element: tns:HealthRecordData [element GetHealthRecordItemResponse]****Description**

Container for health record items

**Derived By**

Type tns4:HealthRecordData

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observations	tns4:ArrayOfObservation	0..1	Yes	Observations
tns4:Allergies	tns4:ArrayOfAllergy	0..1	Yes	List of allergies
tns4:Conditions	tns4:ArrayOfCondition	0..1	Yes	Condition array
tns4:Immunizations	tns4:ArrayOfImmunization	0..1	Yes	Immunization list
tns4:LabTestResults	tns4:ArrayOfLabTestResult	0..1	Yes	Lab test results
tns4:Medications	tns4:ArrayOfMedication	0..1	Yes	Medication list
tns4:Procedures	tns4:ArrayOfProcedure	0..1	Yes	Procedure list
tns4:HealthRecordFiles	tns4:ArrayOfHealthRecordFile	0..1	Yes	Health record file list

**Referenced By**

- Element tns:GetHealthRecordItemResponse

**Element: tns:HealthRecordData [element GetHealthRecordItemsPagedResponse]****Description**

Container for health record items

**Derived By**

Type tns4:HealthRecordData

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observations	tns4:ArrayOfObservation	0..1	Yes	Observations
tns4:Allergies	tns4:ArrayOfAllergy	0..1	Yes	List of allergies
tns4:Conditions	tns4:ArrayOfCondition	0..1	Yes	Condition array
tns4:Immunizations	tns4:ArrayOfImmunization	0..1	Yes	Immunization list

Component	Type	Occurs	Nilable?	Description
tns4:LabTestResults	tns4:ArrayOfLabTestResult	0..1	Yes	Lab test results
tns4:Medications	tns4:ArrayOfMedication	0..1	Yes	Medication list
tns4:Procedures	tns4:ArrayOfProcedure	0..1	Yes	Procedure list
tns4:HealthRecordFiles	tns4:ArrayOfHealthRecordFile	0..1	Yes	Health record file list

**Referenced By**

- Element tns:GetHealthRecordItemsPagedResponse

**Element: tns:HealthRecordData [element GetHealthRecordItemsResponse]****Description**

Container for health record items

**Derived By**

Type tns4:HealthRecordData

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observations	tns4:ArrayOfObservation	0..1	Yes	Observations
tns4:Allergies	tns4:ArrayOfAllergy	0..1	Yes	List of allergies
tns4:Conditions	tns4:ArrayOfCondition	0..1	Yes	Condition array
tns4:Immunizations	tns4:ArrayOfImmunization	0..1	Yes	Immunization list
tns4:LabTestResults	tns4:ArrayOfLabTestResult	0..1	Yes	Lab test results
tns4:Medications	tns4:ArrayOfMedication	0..1	Yes	Medication list
tns4:Procedures	tns4:ArrayOfProcedure	0..1	Yes	Procedure list
tns4:HealthRecordFiles	tns4:ArrayOfHealthRecordFile	0..1	Yes	Health record file list



**Referenced By**

- Element tns:GetHealthRecordItemsResponse

**Element: tns:HealthRecordData [element StoreHealthRecordItemsRequest]****Description**

Container for health record items

**Derived By**

Type tns4:HealthRecordData

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observations	tns4:ArrayOfObservation	0..1	Yes	Observations
tns4:Allergies	tns4:ArrayOfAllergy	0..1	Yes	List of allergies
tns4:Conditions	tns4:ArrayOfCondition	0..1	Yes	Condition array
tns4:Immunizations	tns4:ArrayOfImmunization	0..1	Yes	Immunization list
tns4:LabTestResults	tns4:ArrayOfLabTestResult	0..1	Yes	Lab test results
tns4:Medications	tns4:ArrayOfMedication	0..1	Yes	Medication list
tns4:Procedures	tns4:ArrayOfProcedure	0..1	Yes	Procedure list
tns4:HealthRecordFiles	tns4:ArrayOfHealthRecordFile	0..1	Yes	Health record file list

**Referenced By**

- Element tns:StoreHealthRecordItemsRequest

**Element: tns4:HealthRecordData****Description**

Container for health record items

**Derived By**

Type tns4:HealthRecordData

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observations	tns4:ArrayOfObservation	0..1	Yes	Observations
tns4:Allergies	tns4:ArrayOfAllergy	0..1	Yes	List of allergies
tns4:Conditions	tns4:ArrayOfCondition	0..1	Yes	Condition array
tns4:Immunizations	tns4:ArrayOfImmunization	0..1	Yes	Immunization list
tns4:LabTestResults	tns4:ArrayOfLabTestResult	0..1	Yes	Lab test results
tns4:Medications	tns4:ArrayOfMedication	0..1	Yes	Medication list
tns4:Procedures	tns4:ArrayOfProcedure	0..1	Yes	Procedure list
tns4:HealthRecordFiles	tns4:ArrayOfHealthRecordFile	0..1	Yes	Health record file list

**Element: tns4:HealthRecordFile [type ArrayOfHealthRecordFile]****Description**

Health record file

**Derived By**

Type tns4:HealthRecordFile

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)

Component	Type	Occurs	Nilable?	Description
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInf oAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	File name (required)
tns4:ContentType	xsd:string	1..1	Yes	Consent type
tns4:Data	xsd:base64Binary	0..1	Yes	File content (binary data)
tns4:IsXml	xsd:boolean	0..1	Yes	Indicates if the file content is Xml
tns4:IsText	xsd:boolean	0..1	Yes	Indicates if the file content is text
tns4:DocumentTy pe	xsd:string	0..1	Yes	Document type, valid for document files only
tns4:FileType	xsd:string	0..1	Yes	File type
tns4:DocumentTy peCode	tns4:CodedValue	0..1	Yes	Document type code
tns4:FileTypeCod e	tns4:CodedValue	0..1	Yes	File type code
tns4:AdditionalInf o	xsd:string	0..1	Yes	Free text field for additional info about the file
tns4:NameCode	tns4:CodedValue	0..1	Yes	Health record file code

**Referenced By**

- Complex Type tns4:ArrayOfHealthRecordFile

**Element: tns4:HealthRecordFile****Description**

File health record item type. File content is stored in property Data, which is only populated when the HealthRecordFile item is requested via the GetHealthRecordItem operation.

**Derived By**

Type tns4:HealthRecordFile

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	File name (required)
tns4:ContentType	xsd:string	1..1	Yes	Consent type
tns4:Data	xsd:base64Binary	0..1	Yes	File content (binary data)
tns4:IsXml	xsd:boolean	0..1	Yes	Indicates if the file content is Xml
tns4:IsText	xsd:boolean	0..1	Yes	Indicates if the file content is text
tns4:DocumentType	xsd:string	0..1	Yes	Document type, valid for document files only
tns4:FileType	xsd:string	0..1	Yes	File type
tns4:DocumentTypeCode	tns4:CodedValue	0..1	Yes	Document type code
tns4:FileTypeCode	tns4:CodedValue	0..1	Yes	File type code

Component	Type	Occurs	Nilable?	Description
tns4:AdditionalInfo	xsd:string	0..1	Yes	Free text field for additional info about the file
tns4:NameCode	tns4:CodedValue	0..1	Yes	Health record file code

## Element: tns4:HealthRecordFiles [type HealthRecordData]

### Description

Health record file list

### Derived By

Type tns4:ArrayOfHealthRecordFile

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:HealthRecordFile	tns4:HealthRecordFile	0..*	Yes	Health record file

### Referenced By

- Complex Type tns4:HealthRecordData

## Element: tns4:HealthRecordItem

### Description

Base type for health record items

### Derived By

Type tns4:HealthRecordItem

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)

Component	Type	Occurs	Nilable?	Description
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInf oAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item

## Element: tns:HealthRecordItems [element DeleteHealthRecordItemsRequest]

### Description

Health record item list

### Derived By

Type tns4:ArrayOfItemInfo

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ItemInfo	tns4:ItemInfo	0..*	Yes	Item type and id

### Referenced By

- Element tns:DeleteHealthRecordItemsRequest

## Element: tns4:HealthRecordItemType [type ArrayOfHealthRecordItemType]

**Description**

Health record item type

**Derived By**

Type tns4:HealthRecordItemType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name
tns4:TypeCode	tns4:CodedValue	0..1	Yes	Code for the item type
tns4:Title	tns4:MultiLanguage Value	1..1	Yes	Localized name of the item type
tns4:Description	tns4:MultiLanguage Value	0..1	Yes	Item type description
tns4:IsObservation	xsd:boolean	1..1	No	Indicates if the type is a dynamic observation type
tns4:ObservationItemTypes	tns4:ArrayOfObservationItemType	0..1	Yes	Observation item types

**Referenced By**

- Complex Type tns4:ArrayOfHealthRecordItemType

**Element: tns4:HealthRecordItemType****Description**

Health record item type

**Derived By**

Type tns4:HealthRecordItemType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name
tns4:TypeCode	tns4:CodedValue	0..1	Yes	Code for the item type

Component	Type	Occurs	Nilable?	Description
tns4:Title	tns4:MultiLanguage Value	1..1	Yes	Localized name of the item type
tns4:Description	tns4:MultiLanguage Value	0..1	Yes	Item type description
tns4:IsObservation	xsd:boolean	1..1	No	Indicates if the type is a dynamic observation type
tns4:ObservationItemTypes	tns4:ArrayOfObservationItemType	0..1	Yes	Observation item types

## Element: tns4:HealthRecordProfile

### Description

Health record profile

### Derived By

Type tns4:HealthRecordProfile

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created to health record profile
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the profile, not available for most applications
tns4:OrganizationId	xsd:string	0..1	Yes	Organization id (always empty for Taltioni users)
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record profile
tns4:PersonalId	xsd:string	0..1	Yes	Personal identifier (HETU, not available to most applications)
tns4:State	xsd:string	0..1	Yes	Health record state
tns4:EffectiveDateTime	xsd:dateTime	1..1	Yes	Creation date (required)
tns4:FirstName	xsd:string	1..1	Yes	First name (required)
tns4:LastName	xsd:string	1..1	Yes	Last name
tns4:FullName	xsd:string	0..1	Yes	Full name of the person (read-only, user first and last name to set the name)
tns4:MiddleName	xsd:string	0..1	Yes	Middle name



Component	Type	Occurs	Nilable?	Description
tns4:Suffix	xsd:string	0..1	Yes	Person name suffix, such as educational degree
tns4:Title	xsd:string	0..1	Yes	Localized name of the item type
tns4:EmailAddresses	xsd:string	0..1	Yes	Primary email address
tns4:EmailAddresses2	xsd:string	0..1	Yes	Secondary email address
tns4:EmailAddresses3	xsd:string	0..1	Yes	Third email address
tns4:EmailInfo	xsd:string	0..1	Yes	Additional information about the email addresses
tns4:MobilePhone	xsd:string	0..1	Yes	Mobile phone (primary)
tns4:MobilePhone2	xsd:string	0..1	Yes	Secondary mobile phone
tns4:MobilePhone3	xsd:string	0..1	Yes	Third mobile phone
tns4:VoiceCallPhone	xsd:string	0..1	Yes	Not applicable in Taltioni
tns4:HomePhone	xsd:string	0..1	Yes	Home phone (syntax: +358501234567)
tns4:WorkPhone	xsd:string	0..1	Yes	Work phone number
tns4:PhoneInfo	xsd:string	0..1	Yes	Additional information about phone contact
tns4:Description	xsd:string	0..1	Yes	Free text additional information about the profile
tns4:OrganizationInfo	xsd:string	0..1	Yes	Organization information (always empty for Taltioni users)
tns4:ProfessionalTraining	xsd:string	0..1	Yes	Not applicable for a health record owner
tns4:PersonType	xsd:string	0..1	Yes	Not applicable for health record owner
tns4:PersonTypeCode	tns4:CodedValue	0..1	Yes	Code for the person type
tns4:TimeZone	xsd:string	0..1	Yes	Time zone of the person
tns4:Language	xsd:string	0..1	Yes	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Culture	xsd:string	0..1	Yes	Culture in ISO culture code format (e.g. fi-FI)
tns4:DateOfDeath	xsd:dateTime	0..1	Yes	Date of death
tns4:Gender	tns4:Gender	0..1	No	Gender of the person
tns4:DateOfBirth	xsd:dateTime	0..1	Yes	Date of birth
tns4:BloodType	xsd:string	0..1	Yes	Blood type of the person

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:BloodTypeCode	tns4:CodedValue	0..1	Yes	Blood type code
tns4:EmploymentStatus	xsd:string	0..1	Yes	Employment status free text
tns4:EmploymentStatusCode	tns4:CodedValue	0..1	Yes	Employment status code
tns4:Ethnicity	xsd:string	0..1	Yes	Ethnicity free text
tns4:EthnicityCode	tns4:CodedValue	0..1	Yes	Ethnicity code
tns4:HighestEducationLevel	xsd:string	0..1	Yes	Highest education level (free text)
tns4:HighestEducationLevelCode	tns4:CodedValue	0..1	Yes	Code for education level
tns4:IsDeceased	xsd:boolean	0..1	Yes	Indicates if the person is deceased (dead)
tns4:IsDisabled	xsd:boolean	0..1	Yes	Indicates if the person is disabled (handicapped)
tns4:MaritalStatus	xsd:string	0..1	Yes	Marital status (single, married, divorces, etc.)
tns4:MaritalStatusCode	tns4:CodedValue	0..1	Yes	Code for the marital status
tns4:Religion	xsd:string	0..1	Yes	Religion information
tns4:ReligionCode	tns4:CodedValue	0..1	Yes	Code for the religion
tns4:SocialSecurityNumber	xsd:string	0..1	Yes	Social security number (not applicable in region Finland, PersonalId field is used to store HETU)
tns4:Street	xsd:string	0..1	Yes	Street
tns4:PostalCode	xsd:string	0..1	Yes	Postal code
tns4:City	xsd:string	0..1	Yes	City of residence
tns4:County	xsd:string	0..1	Yes	Country of residence
tns4:Country	xsd:string	0..1	Yes	Country of residence
tns4:Nationality	xsd:string	0..1	Yes	Nationality of the person (e.g. Finnish)
tns4:NationalityCode	tns4:CodedValue	0..1	Yes	Code for nationality
tns4:CustomProperties	tns4:ArrayOfCustomPropertyValue	0..1	Yes	For future reference

**Element: tns4:HighestEducationLevel [type HealthRecordProfile]**

**Description**

Highest education level (free text)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:HighestEducationLevelCode [type HealthRecordProfile]****Description**

Code for education level

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:HomePhone [type HealthRecordProfile]****Description**

Home phone (syntax: +358501234567)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:HomePhone [type Person]****Description**

Home phone (syntax: +358501234567)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Id [type CustomPropertyValue]****Description**

For future reference

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:Id [type HealthRecordItem]****Description**

Taltioni internal unique Id of the item

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Element: tns4:Id [type HealthRecordProfile]****Description**

Taltioni internal unique Id of the profile, not available for most applications

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Id [type Person]****Description**

Taltioni internal unique Id of the person, not available for most applications

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:IdInSourceSystem [type AuditInfo]****Description**

Id of the item in the source system

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4:IdInSourceSystem [type StoreItemResult]****Description**

Id of the item in the source system

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:StoreItemResult

**Element: tns4:Immunization [type ArrayOfImmunization]****Description**

Immunization health record item type

**Derived By**

Type tns4:Immunization

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item

Component	Type	Occurs	Nilable?	Description
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInf oAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Immunization name (required)
tns4:Manufacturer	xsd:string	0..1	Yes	Immunization medication manufacturer
tns4:Lot	xsd:string	0..1	Yes	Manufacturing lot
tns4:Route	xsd:string	0..1	Yes	Immunization medical route
tns4:ExpirationDa te	xsd:dateTime	0..1	Yes	Expiration date for the immunization
tns4:Sequence	xsd:string	0..1	Yes	Sequence information
tns4:AnatomicSur face	xsd:string	0..1	Yes	Anatomic surface
tns4:AdverseEven t	xsd:string	0..1	Yes	Adverse events related to the immunization
tns4:AdverseEffec tTime	xsd:dateTime	0..1	Yes	The date when the adverse effect was observed
tns4:MedicationN ame	xsd:string	0..1	Yes	Name of the immunization medication
tns4:AnatomicSur faceCode	tns4:CodedValue	0..1	Yes	Anatomic surface code
tns4:Manufacturer Code	tns4:CodedValue	0..1	Yes	Code for the manufacturer
tns4:MedicationN ameCode	tns4:CodedValue	0..1	Yes	Link to medication code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Immunization code
tns4:RouteCode	tns4:CodedValue	0..1	Yes	Code for the immunization route

### Referenced By

- Complex Type tns4:ArrayOfImmunization

## Element: tns4:Immunization

### Description

Immunization health record item type

### Derived By

Type tns4:Immunization

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Immunization name (required)
tns4:Manufacturer	xsd:string	0..1	Yes	Immunization medication manufacturer
tns4:Lot	xsd:string	0..1	Yes	Manufacturing lot
tns4:Route	xsd:string	0..1	Yes	Immunization medical route
tns4:ExpirationDate	xsd:dateTime	0..1	Yes	Expiration date for the immunization
tns4:Sequence	xsd:string	0..1	Yes	Sequence information



Component	Type	Occurs	Nilable?	Description
tns4:AnatomicSurface	xsd:string	0..1	Yes	Anatomic surface
tns4:AdverseEvent	xsd:string	0..1	Yes	Adverse events related to the immunization
tns4:AdverseEffectTime	xsd:dateTime	0..1	Yes	The date when the adverse effect was observed
tns4:MedicationName	xsd:string	0..1	Yes	Name of the immunization medication
tns4:AnatomicSurfaceCode	tns4:CodedValue	0..1	Yes	Anatomic surface code
tns4:ManufacturerCode	tns4:CodedValue	0..1	Yes	Code for the manufacturer
tns4:MedicationNameCode	tns4:CodedValue	0..1	Yes	Link to medication code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Immunization code
tns4:RouteCode	tns4:CodedValue	0..1	Yes	Code for the immunization route

## Element: tns4:Immunizations [type HealthRecordData]

### Description

Immunization list

### Derived By

Type tns4:ArrayOfImmunization

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Immunization	tns4:Immunization	0..*	Yes	Immunization health record item type

### Referenced By

- Complex Type tns4:HealthRecordData

## Element: tns4:Instructions [type Prescription]

### Description

Instructions included in the prescription

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns4:InstructionsCode [type Prescription]****Description**

Code for prescription instructions

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:Abbreviation Text	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCode Id	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns2:int**

**Description**

Standard XML type

**Derived By**

Type xsd:int

**Element: tns4:InternalCodeId [type CodedValue]****Description**

Taltioni internal id for the code

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodedValue

**Element: tns4:InternalCodeId [type CodeFilter]****Description**

Taltioni internal id for the code

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodeFilter

**Element: tns4:IsDeceased [type HealthRecordProfile]****Description**

Indicates if the person is deceased (dead)

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:IsDisabled [type HealthRecordProfile]****Description**

Indicates if the person is disabled (handicapped)

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:IsErrors [type StoreItemsResult]****Description**

Indicates if errors occurred during the store request

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:StoreItemsResult

**Element: tns:IsMatch [element CheckPersonalIdentifierResponse]****Description**

Indicates whether the personal identifiers match; true if the identifier stored in your application is the same as the one stored in Taltioni.

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:CheckPersonalIdentifierResponse

**Element: tns4:IsNegated [type Allergy]****Description**

Indicates if the allergy is negated with treatment

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:IsObservation [type HealthRecordItemType]****Description**

Indicates if the type is a dynamic observation type

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:HealthRecordItemType

**Element: tns4:IsRequired [type DynamicPropertyInfo]****Description**

Indicates if a value is required for this item

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:IsText [type HealthRecordFile]****Description**

Indicates if the file content is text

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns4:IsTrafficRisk [type Medication]****Description**

Indicates if the medication causes a traffic risk and driving should be avoided

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:IsUserHealthRecordOwner [type AuthorizationInfo]****Description**

Indicates if the user is the owner of the health record

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:AuthorizationInfo

**Element: tns4:IsXml [type HealthRecordFile]****Description**

Indicates if the file content is Xml

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns:ItemId [element GetHealthRecordItemRequest]****Description**

Taltioni internal item id (GUID format)

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:GetHealthRecordItemRequest

**Element: tns4:ItemId [type ItemInfo]****Description**

Taltioni internal item id (GUID format)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ItemInfo

**Element: tns4:ItemId [type StoreItemResult]****Description**

Taltioni internal item id (GUID format)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:StoreItemResult

**Element: tns:ItemIdInSourceSystem [element GetHealthRecordItemRequest]****Description**

Identifier of the item in the source system

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:GetHealthRecordItemRequest

**Element: tns4:ItemInfo [type ArrayOfItemInfo]**

**Description**

Item type and id

**Derived By**

Type tns4:ItemInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ItemType	xsd:string	1..1	Yes	Health record item type
tns4:ItemId	xsd:string	1..1	Yes	Taltioni internal item id (GUID format)

**Referenced By**

- Complex Type tns4:ArrayOfItemInfo

**Element: tns4:ItemInfo****Description**

Item type and id

**Derived By**

Type tns4:ItemInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ItemType	xsd:string	1..1	Yes	Health record item type
tns4:ItemId	xsd:string	1..1	Yes	Taltioni internal item id (GUID format)

**Element: tns4:Items [type MultiLanguageValue]****Description**

Translations of the term



**Derived By**

Type tns5:ArrayOfMultiLanguageValueItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns5:MultiLanguageValueItem	tns5:MultiLanguageValueItem	0..*	Yes	Single translation of a multi-language text

**Referenced By**

- Complex Type tns4:MultiLanguageValue

**Element: tns:ItemType [element GetHealthRecordItemRequest]****Description**

Health record item type

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:GetHealthRecordItemRequest

**Element: tns:ItemType [element GetHealthRecordItemsPagedRequest]****Description**

Health record item type

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:GetHealthRecordItemsPagedRequest

**Element: tns:ItemType [element GetLatestHealthRecordItemRequest]**

**Description**

Health record item type

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:GetLatestHealthRecordItemRequest

**Element: tns4:ItemType [type ItemInfo]****Description**

Health record item type

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ItemInfo

**Element: tns4:ItemType [type StoreItemResult]****Description**

Health record item type

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:StoreItemResult

**Element: tns:ItemTypes [element GetHealthRecordItemsRequest]****Description**

Item types

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Referenced By**

- Element tns:GetHealthRecordItemsRequest

**Element: tns:ItemTypes [element GetHealthRecordItemTypesResponse]****Description**

Item types

**Derived By**

Type tns4:ArrayOfHealthRecordItemType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:HealthRecordItemType	tns4:HealthRecordItemType	0..*	Yes	Health record item type

**Referenced By**

- Element tns:GetHealthRecordItemTypesResponse

**Element: tns4:ItemValueType****Description**

Value type of the item (see section Simple Types for more information)

**Derived By**

Type tns4:ItemValueType

**Enumeration**

Value	Description
Number	
Text	
Choice	
YesNo	
CodableValue	
StructuredMeasurement	
DateTime	

**Element: tns4:LaboratoryName [type LabTestResult]****Description**

Laboratory name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:LabTestResult

**Element: tns4:LabTestResult [type ArrayOfLabTestResult]****Description**

Lab test result health record item

**Derived By**

Type tns4:LabTestResult

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item

Component	Type	Occurs	Nilable?	Description
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInf oAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Lab test result name (required)
tns4:LaboratoryN ame	xsd:string	0..1	Yes	Laboratory name
tns4:OrderedByN ame	xsd:string	0..1	Yes	Name of the party that ordered the lab test
tns4:LabTestResu ltValues	tns4:ArrayOfLabTes tResultValue	1..1	Yes	Lab test values
tns4:NameCode	tns4:CodedValue	0..1	Yes	Lab test result code

**Referenced By**

- Complex Type tns4:ArrayOfLabTestResult

**Element: tns4:LabTestResult****Description**

Lab test result health record item

**Derived By**

Type tns4:LabTestResult

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		

Component	Type	Occurs	Nilable?	Description
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Lab test result name (required)
tns4:LaboratoryName	xsd:string	0..1	Yes	Laboratory name
tns4:OrderedByName	xsd:string	0..1	Yes	Name of the party that ordered the lab test
tns4:LabTestResultValues	tns4:ArrayOfLabTestResultValue	1..1	Yes	Lab test values
tns4:NameCode	tns4:CodedValue	0..1	Yes	Lab test result code

## Element: tns4:LabTestResults [type HealthRecordData]

### Description

Lab test results

### Derived By

Type tns4:ArrayOfLabTestResult

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:LabTestResult	tns4:LabTestResult	0..*	Yes	Lab test result health record item

**Referenced By**

- Complex Type tns4:HealthRecordData

**Element: tns4:LabTestResultValue [type ArrayOfLabTestResultValue]****Description**

Represents a single value within a lab test result

**Derived By**

Type tns4:LabTestResultValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item

Component	Type	Occurs	Nilable?	Description
tns4:Name	xsd:string	0..1	Yes	Lab test value name (required)
tns4:Measurement	xsd:double	0..1	Yes	Lab test measurement value
tns4:MeasurementUnits	xsd:string	0..1	Yes	Measurement unit
tns4:MeasurementText	xsd:string	0..1	Yes	Textual description of the measurement
tns4:MeasurementUnitsCode	tns4:CodedValue	0..1	Yes	Measurement unit code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Lab test value code

**Referenced By**

- Complex Type tns4:ArrayOfLabTestResultValue

**Element: tns4:LabTestResultValue****Description**

Represents a single value within a lab test result

**Derived By**

Type tns4:LabTestResultValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated



Component	Type	Occurs	Nilable?	Description
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	0..1	Yes	Lab test value name (required)
tns4:Measurement	xsd:double	0..1	Yes	Lab test measurement value
tns4:MeasurementUnits	xsd:string	0..1	Yes	Measurement unit
tns4:MeasurementText	xsd:string	0..1	Yes	Textual description of the measurement
tns4:MeasurementUnitsCode	tns4:CodedValue	0..1	Yes	Measurement unit code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Lab test value code

## Element: tns4:LabTestResultValues [type LabTestResult]

### Description

Lab test values

### Derived By

Type tns4:ArrayOfLabTestResultValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:LabTestResultValue	tns4:LabTestResultValue	0..*	Yes	Represents a single value within a lab test result

### Referenced By

- Complex Type tns4:LabTestResult

## Element: tns5:LangCode [type MultiLanguageValueItem]

**Description**

ISO two-letter language code (e.g. fi for Finnish)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns5:MultiLanguageValueItem

**Element: tns4:Language [type HealthRecordProfile]****Description**

Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Language [type Person]****Description**

Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:LastName [type HealthRecordProfile]****Description**

Last name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:LastName [type Person]****Description**

Last name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4>LastObserved [type Allergy]****Description**

Last observed date

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4>LastUpdated [type AuditInfo]****Description**

Date when the item was last updated

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4>LastUpdatedBy [type AuditInfo]**

**Description**

Id of the party who performed the update (not available to most applications)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns2:long****Description**

Standard XML type

**Derived By**

Type xsd:long

**Element: tns4:Lot [type Immunization]****Description**

Manufacturing lot

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:Manufacturer [type DeviceInformation]****Description**

Device manufacturer

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DeviceInformation

**Element: tns4:Manufacturer [type Immunization]****Description**

Immunization medication manufacturer

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:Manufacturer [type Medication]****Description**

Medication manufacturer

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:ManufacturerCode [type Immunization]****Description**

Code for the manufacturer

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)

Component	Type	Occurs	Nilable?	Description
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:Abbreviation Text	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCode Id	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:MaritalStatus [type HealthRecordProfile]****Description**

Marital status (single, married, divorces, etc.)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:MaritalStatusCode [type HealthRecordProfile]****Description**

Code for the marital status

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")

Component	Type	Occurs	Nilable?	Description
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:MaxInclusive [type DynamicPropertyInfo]****Description**

Maximum value allowed for the item (applies to numeric values only)

**Derived By**

Type xsd:double

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:MaxLength [type DynamicPropertyInfo]****Description**

Maximum length (applies to text values only)

**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:MaxSelect [type DynamicPropertyInfo]****Description**

Maximum number of values that can be selected (applies to multiselect values only)

**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:Measurement [type LabTestResultValue]****Description**

Lab test measurement value

**Derived By**

Type xsd:double

**Referenced By**

- Complex Type tns4:LabTestResultValue

**Element: tns4:MeasurementText [type LabTestResultValue]****Description**

Textual description of the measurement

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:LabTestResultValue

**Element: tns4:MeasurementUnits [type LabTestResultValue]****Description**

Measurement unit

**Derived By**

Type xsd:string



**Referenced By**

- Complex Type tns4:LabTestResultValue

**Element: tns4:MeasurementUnitsCode [type LabTestResultValue]****Description**

Measurement unit code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:LabTestResultValue

**Element: tns4:Medication [type ArrayOfMedication]****Description**

Medication

**Derived By**

Type tns4:Medication

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Medication name (required)
tns4:Reason	xsd:string	0..1	Yes	Reason for taking the medication
tns4:FrequencyUnits	xsd:string	0..1	Yes	Frequency unit
tns4:FrequencyText	xsd:string	0..1	Yes	Free text frequency description
tns4:Frequency	xsd:double	0..1	Yes	Frequency for taking the medication
tns4:Manufacturer	xsd:string	0..1	Yes	Medication manufacturer
tns4:DateStarted	xsd:dateTime	0..1	Yes	Date when medication usage was started
tns4:DoseForm	xsd:string	0..1	Yes	Dose form (free text)
tns4:DateDiscontinued	xsd:dateTime	0..1	Yes	Date when the medication was discontinued

Component	Type	Occurs	Nilable?	Description
tns4:SubstanceAdministration	xsd:string	0..1	Yes	Substance administration information
tns4:ActiveIngredients	xsd:string	0..1	Yes	Active ingredients of a medication
tns4:Prescribed	xsd:string	0..1	Yes	Indicates whether the medication was prescribed or over-the counter
tns4:Strength	xsd:string	0..1	Yes	Medication strength
tns4:ATC	xsd:string	0..1	Yes	Anatomical Therapeutic Chemical classification system code
tns4:ATCCode	tns4:CodedValue	0..1	Yes	Link to ATC code
tns4:Prescription	tns4:Prescription	0..1	Yes	Prescription information about the medication
tns4:DoseFormCode	tns4:CodedValue	0..1	Yes	Dose form code
tns4:FrequencyUnitsCode	tns4:CodedValue	0..1	Yes	Frequency unit code
tns4:IsTrafficRisk	xsd:boolean	0..1	Yes	Indicates if the medication causes a traffic risk and driving should be avoided
tns4:NameCode	tns4:CodedValue	0..1	Yes	Medication code
tns4:PrescribedCode	tns4:CodedValue	0..1	Yes	Code for the prescribed status

**Referenced By**

- Complex Type tns4:ArrayOfMedication

**Element: tns4:Medication****Description**

Medication

**Derived By**

Type tns4:Medication

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item

Component	Type	Occurs	Nilable?	Description
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInf oAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Medication name (required)
tns4:Reason	xsd:string	0..1	Yes	Reason for taking the medication
tns4:FrequencyU nits	xsd:string	0..1	Yes	Frequency unit
tns4:FrequencyTe xt	xsd:string	0..1	Yes	Free text frequency description
tns4:Frequency	xsd:double	0..1	Yes	Frequency for taking the medication
tns4:Manufacturer	xsd:string	0..1	Yes	Medication manufacturer
tns4:DateStarted	xsd:dateTime	0..1	Yes	Date when medication usage was started
tns4:DoseForm	xsd:string	0..1	Yes	Dose form (free text)
tns4:DateDisconti nued	xsd:dateTime	0..1	Yes	Date when the medication was discontinued
tns4:SubstanceAd ministration	xsd:string	0..1	Yes	Substance administration information
tns4:ActiveIngredi ents	xsd:string	0..1	Yes	Active ingredients of a medication
tns4:Prescribed	xsd:string	0..1	Yes	Indicates whether the medication was prescribed or over-the counter
tns4:Strength	xsd:string	0..1	Yes	Medication strength
tns4:ATC	xsd:string	0..1	Yes	Anatomical Therapeutic Chemical classification system code
tns4:ATCCode	tns4:CodedValue	0..1	Yes	Link to ATC code

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:Prescription	tns4:Prescription	0..1	Yes	Prescription information about the medication
tns4:DoseFormCode	tns4:CodedValue	0..1	Yes	Dose form code
tns4:FrequencyUnitsCode	tns4:CodedValue	0..1	Yes	Frequency unit code
tns4:IsTrafficRisk	xsd:boolean	0..1	Yes	Indicates if the medication causes a traffic risk and driving should be avoided
tns4:NameCode	tns4:CodedValue	0..1	Yes	Medication code
tns4:PrescribedCode	tns4:CodedValue	0..1	Yes	Code for the prescribed status

**Element: tns4:MedicationName [type Immunization]****Description**

Name of the immunization medication

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:MedicationNameCode [type Immunization]****Description**

Link to medication code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")

Component	Type	Occurs	Nilable?	Description
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:Medications [type HealthRecordData]****Description**

Medication list

**Derived By**

Type tns4:ArrayOfMedication

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Medication	tns4:Medication	0..*	Yes	Medication

**Referenced By**

- Complex Type tns4:HealthRecordData

**Element: tns4:MiddleName [type HealthRecordProfile]****Description**

Middle name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:MiddleName [type Person]****Description**

Middle name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:MinInclusive [type DynamicPropertyInfo]****Description**

Minimum value allowed for the item (applies to numeric values only)

**Derived By**

Type xsd:double

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:MinLength [type DynamicPropertyInfo]****Description**

Minimum number of values that can be selected (applies to multiselect values only)

**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:MinSelect [type DynamicPropertyInfo]****Description**

Minimum number of values that can be selected (applies to multiselect values only)

**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:MobilePhone [type HealthRecordProfile]****Description**

Mobile phone (primary)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:MobilePhone [type Person]****Description**

Mobile phone (primary)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:MobilePhone2 [type HealthRecordProfile]****Description**

Secondary mobile phone

**Derived By**

Type xsd:string



**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:MobilePhone2 [type Person]****Description**

Secondary mobile phone

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:MobilePhone3 [type HealthRecordProfile]****Description**

Third mobile phone

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:MobilePhone3 [type Person]****Description**

Third mobile phone

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Model [type DeviceInformation]**

**Description**

Device model

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DeviceInformation

**Element: tns4:MultiLanguageValue****Description**

Multi-language value contains the same text in multiple languages

**Derived By**

Type tns4:MultiLanguageValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

**Element: tns5:MultiLanguageValueItem [type ArrayOfMultiLanguageValueItem]****Description**

Single translation of a multi-language text

**Derived By**

Type tns5:MultiLanguageValueItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		

Component	Type	Occurs	Nilable?	Description
tns5:LangCode	xsd:string	1..1	Yes	ISO two-letter language code (e.g. fi for Finnish)
tns5:Value	xsd:string	1..1	Yes	Localized text

**Referenced By**

- Complex Type tns5:ArrayOfMultiLanguageValueItem

**Element: tns5:MultiLanguageValueItem****Description**

Single translation of a multi-language text

**Derived By**

Type tns5:MultiLanguageValueItem

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns5:LangCode	xsd:string	1..1	Yes	ISO two-letter language code (e.g. fi for Finnish)
tns5:Value	xsd:string	1..1	Yes	Localized text

**Element: tns4:Name [type Allergy]****Description**

Allergy name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:Name [type ApplicationInfo]****Description**

Application name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns4:Name [type Condition]****Description**

Condition name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Condition

**Element: tns4:Name [type DynamicPropertyInfo]****Description**

Detailed info

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:Name [type HealthRecordFile]****Description**

File name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns4:Name [type Immunization]****Description**

Immunization name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:Name [type LabTestResult]****Description**

Lab test result name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:LabTestResult

**Element: tns4:Name [type LabTestResultValue]****Description**

Lab test value name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:LabTestResultValue

**Element: tns4:Name [type Medication]****Description**

Medication name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:Name [type Procedure]****Description**

Procedure name (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Procedure

**Element: tns4:NameCode [type Allergy]****Description**

Allergy code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code

Component	Type	Occurs	Nilable?	Description
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:NameCode [type Condition]****Description**

Condition code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Condition

**Element: tns4:NameCode [type DynamicPropertyInfo]**

**Description**

Value type code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:NameCode [type HealthRecordFile]****Description**

Health record file code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.



Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordFile

**Element: tns4:NameCode [type Immunization]****Description**

Immunization code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code

Component	Type	Occurs	Nilable?	Description
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:NameCode [type LabTestResult]****Description**

Lab test result code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:LabTestResult

**Element: tns4:NameCode [type LabTestResultValue]****Description**

Lab test value code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:LabTestResultValue

**Element: tns4:NameCode [type Medication]****Description**

Medication code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:NameCode [type Procedure]****Description**

Procedure code

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")

Component	Type	Occurs	Nilable?	Description
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Procedure

**Element: tns4:Nationality [type HealthRecordProfile]****Description**

Nationality of the person (e.g. Finnish)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Nationality [type Person]****Description**

Nationality of the person (e.g. Finnish)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:NationalityCode [type HealthRecordProfile]****Description**

Code for nationality

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:NationalityCode [type Person]****Description**

Code for nationality

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Notes [type HealthRecordItem]****Description**

Additional free text notes about the item

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication

- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

## Element: tns4:NumberValue [type CustomPropertyValue]

### Description

For future reference

### Derived By

Type xsd:double

### Referenced By

- Complex Type tns4:CustomPropertyValue

## Element: tns4:NumberValue [type ObservationItem]

### Description

Numeric value for the observation (required when value type is Number)

### Derived By

Type xsd:double

### Referenced By

- Complex Type tns4:ObservationItem

## Element: tns4:Observation [type ArrayOfObservation]

### Description


Observation

### Derived By

Type tns4:Observation

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
 SEQUENCE		1..1		



Component	Type	Occurs	Nilable?	Description
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfo AsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:ObservationItems	tns4:ArrayOfObservationItem	0..1	Yes	Observation items

**Referenced By**

- Complex Type tns4:ArrayOfObservation

**Element: tns4:Observation****Description**

An observation about a person

**Derived By**

Type tns4:Observation

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item

Component	Type	Occurs	Nilable?	Description
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:ObservationItems	tns4:ArrayOfObservationItem	0..1	Yes	Observation items

## Element: tns4:ObservationItem [type ArrayOfObservationItem]

### Description

Observations consist of observation items that contain the actual observation values. Each observation has at least one observation item.

### Derived By

Type tns4:ObservationItem

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item

Component	Type	Occurs	Nilable?	Description
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInf oAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:ValueType	tns4:ItemValueType	0..1	No	Value type (read-only field, indicates the type of value accepted for this item, see Simple Types for more information)
tns4:ChoiceValue	xsd:string	0..1	Yes	Choice value
tns4:TextValue	xsd:string	0..1	Yes	Text value for the observation (applicable if value type is text)
tns4:TextValueCo de	tns4:CodedValue	0..1	Yes	Code for the text value
tns4:NumberValu e	xsd:double	0..1	Yes	Numeric value for the observation (required when value type is Number)
tns4:DateValue	xsd:dateTime	0..1	Yes	Date value
tns4:BooleanValu e	xsd:boolean	0..1	Yes	Boolean value
tns4:ValueAsStrin g	xsd:string	0..1	Yes	String representation of the value (read-only field, use TextValue in store operations)
tns4:Unit	xsd:string	0..1	Yes	Unit for the observation item (required for measurements)
tns4:UnitCode	tns4:CodedValue	0..1	Yes	Code for the unit

**Referenced By**

- Complex Type tns4:ArrayOfObservationItem

**Element: tns4:ObservationItem****Description**

Observations consist of observation items that contain the actual observation values. Each observation has at

least one observation item.

## Derived By

Type tns4:ObservationItem

## Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:ValueType	tns4:ItemValueType	0..1	No	Value type (read-only field, indicates the type of value accepted for this item, see Simple Types for more information)
tns4:ChoiceValue	xsd:string	0..1	Yes	Choice value
tns4:TextValue	xsd:string	0..1	Yes	Text value for the observation (applicable if value type is text)
tns4:TextValueCode	tns4:CodedValue	0..1	Yes	Code for the text value
tns4:NumberValue	xsd:double	0..1	Yes	Numeric value for the observation (required when value type is Number)
tns4:DateValue	xsd:dateTime	0..1	Yes	Date value
tns4:BooleanValue	xsd:boolean	0..1	Yes	Boolean value

Component	Type	Occurs	Nilable?	Description
tns4:ValueAsString	xsd:string	0..1	Yes	String representation of the value (read-only field, use TextValue in store operations)
tns4:Unit	xsd:string	0..1	Yes	Unit for the observation item (required for measurements)
tns4:UnitCode	tns4:CodedValue	0..1	Yes	Code for the unit

## Element: tns4:ObservationItems [type Observation]

### Description

Observation items

### Derived By

Type tns4:ArrayOfObservationItem

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ObservationItem	tns4:ObservationItem	0..*	Yes	Observations consist of observation items that contain the actual observation values. Each observation has at least one observation item.

### Referenced By

- Complex Type tns4:Observation

## Element: tns4:ObservationItemType [type ArrayOfObservationItemType]

### Description

Observation item type

### Derived By

Type tns4:ObservationItemType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name
tns4:TypeCode	tns4:CodedValue	0..1	Yes	Code for the observation item type
tns4:ValueTypeInformation	tns4:DynamicPropertyInfo	1..1	Yes	Detailed information on the type of value required for this observation item

**Referenced By**

- Complex Type tns4:ArrayOfObservationItemType

**Element: tns4:ObservationItemType****Description**

Observation item type contains metadata of the dynamic observation item type (e.g. systolic in blood pressure)

**Derived By**

Type tns4:ObservationItemType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name
tns4:TypeCode	tns4:CodedValue	0..1	Yes	Code for the observation item type
tns4:ValueTypeInformation	tns4:DynamicPropertyInfo	1..1	Yes	Detailed information on the type of value required for this observation item

**Element: tns4:ObservationItemTypes [type HealthRecordItemType]****Description**

Observation item types

**Derived By**

Type tns4:ArrayOfObservationItemType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ObservationItem	tns4:ObservationItem	0..*	Yes	Observation item type

**Referenced By**

- Complex Type tns4:HealthRecordItemType

**Element: tns4:Observations [type HealthRecordData]****Description**

Observations

**Derived By**

Type tns4:ArrayOfObservation

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Observation	tns4:Observation	0..*	Yes	Observation

**Referenced By**

- Complex Type tns4:HealthRecordData

**Element: tns4:OnsetDate [type Condition]****Description**

Date of onset of the condition (first observed)

**Derived By**

Type xsd:dateTime

**Referenced By**

- Complex Type tns4:Condition

**Element: tns4:OperationAborted [type StoreItemsResult]**

**Description**

Indicates that the store operation was aborted due to errors

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:StoreItemsResult

**Element: tns4:OrderedByName [type LabTestResult]****Description**

Name of the party that ordered the lab test

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:LabTestResult

**Element: tns4:OrganizationId [type HealthRecordProfile]****Description**

Organization id (always empty for Taltioni users)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:OrganizationId [type Person]****Description**

Organization id (always empty for Taltioni users)

**Derived By**

Type xsd:string



**Referenced By**

- Complex Type tns4:Person

**Element: tns4:OrganizationInfo [type HealthRecordProfile]****Description**

Organization information (always empty for Taltioni users)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:OrganizationInfo [type Person]****Description**

Organization information (always empty for Taltioni users)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns:Page [element GetHealthRecordItemsPagedRequest]****Description**

Indicates the page to fetch, must be a positive number

**Derived By**

Type xsd:int

**Referenced By**

- Element tns:GetHealthRecordItemsPagedRequest

**Element: tns:PageSize [element GetHealthRecordItemsPagedRequest]**

**Description**

Indicates the page size, i.e. number of items to fetch

**Derived By**

Type xsd:int

**Referenced By**

- Element tns:GetHealthRecordItemsPagedRequest

**Element: tns4:PerformerId [type AuditInfo]****Description**

Identifier of the party that performed (or recorded) the measurement or created the item

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4:PerformerType [type AuditInfo]****Description**

Performer type (health record owner, laboratory, health care professional, etc.)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4:PerformerTypeCode [type AuditInfo]****Description**

Code for the performer type

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns4:Person****Description**

Person record, contains basic information about a person

**Derived By**

Type tns4:Person

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the Person
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the person, not available for most applications

Component	Type	Occurs	Nilable?	Description
tns4:OrganizationId	xsd:string	0..1	Yes	Organization id (always empty for Taltioni users)
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the person
tns4:PersonalId	xsd:string	0..1	Yes	Personal identifier (HETU, not available to most applications)
tns4:State	xsd:string	0..1	Yes	Person state
tns4:EffectiveDateTime	xsd:dateTime	1..1	Yes	Creation date (required)
tns4:FirstName	xsd:string	1..1	Yes	First name (required)
tns4:LastName	xsd:string	1..1	Yes	Last name
tns4:FullName	xsd:string	0..1	Yes	Full name of the person (read-only, user first and last name to set the name)
tns4:MiddleName	xsd:string	0..1	Yes	Middle name
tns4:Suffix	xsd:string	0..1	Yes	Person name suffix, such as educational degree
tns4:Title	xsd:string	0..1	Yes	Title of the person, e.g. Dr.
tns4:EmailAddresses	xsd:string	0..1	Yes	Primary email address
tns4:EmailAddresses2	xsd:string	0..1	Yes	Secondary email address
tns4:EmailAddresses3	xsd:string	0..1	Yes	Third email address
tns4:EmailInfo	xsd:string	0..1	Yes	Additional information about the email addresses
tns4:MobilePhone	xsd:string	0..1	Yes	Mobile phone (primary)
tns4:MobilePhone2	xsd:string	0..1	Yes	Secondary mobile phone
tns4:MobilePhone3	xsd:string	0..1	Yes	Third mobile phone
tns4:VoiceCallPhone	xsd:string	0..1	Yes	Not applicable in Taltioni
tns4:HomePhone	xsd:string	0..1	Yes	Home phone (syntax: +358501234567)
tns4:WorkPhone	xsd:string	0..1	Yes	Work phone number
tns4:PhoneInfo	xsd:string	0..1	Yes	Additional information about phone contact
tns4:Description	xsd:string	0..1	Yes	Free text additional information about the person
tns4:OrganizationInfo	xsd:string	0..1	Yes	Organization information (always empty for Taltioni users)
tns4:ProfessionalTraining	xsd:string	0..1	Yes	Indicates the type of professional medical training the person has received

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:PersonType	xsd:string	0..1	Yes	Indicates the relationship between the health record owner and the user
tns4:PersonType Code	tns4:CodedValue	0..1	Yes	Code for the person type
tns4:TimeZone	xsd:string	0..1	Yes	Time zone of the person
tns4:Language	xsd:string	0..1	Yes	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Culture	xsd:string	0..1	Yes	Culture in ISO culture code format (e.g. fi-FI)
tns4:Street	xsd:string	0..1	Yes	Street
tns4:PostalCode	xsd:string	0..1	Yes	Postal code
tns4:City	xsd:string	0..1	Yes	City of residence
tns4:County	xsd:string	0..1	Yes	Country of residence
tns4:Country	xsd:string	0..1	Yes	Country of residence
tns4:Nationality	xsd:string	0..1	Yes	Nationality of the person (e.g. Finnish)
tns4:NationalityCode	tns4:CodedValue	0..1	Yes	Code for nationality

**Element: tns4:PersonalId [type HealthRecordProfile]****Description**

Personal identifier (HETU, not available to most applications)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:PersonalId [type Person]****Description**

Personal identifier (HETU, not available to most applications)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns:PersonalIdentifier [element CheckPersonalIdentifierRequest]****Description**

Personal identifier (HETU)

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:CheckPersonalIdentifierRequest

**Element: tns:PersonId [element CreateHealthRecordProfileResponse]****Description**

Taltioni internal identifier of the health record

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:CreateHealthRecordProfileResponse

**Element: tns4:PersonType [type HealthRecordProfile]****Description**

Not applicable for health record owner

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:PersonType [type Person]**

**Description**

Indicates the relationship between the health record owner and the user

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:PersonTypeCode [type HealthRecordProfile]****Description**

Code for the person type

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordProfile

## Element: tns4:PersonTypeCode [type Person]

### Description

Code for the person type

### Derived By

Type tns4:CodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

### Referenced By

- Complex Type tns4:Person

## Element: tns4:PhoneInfo [type HealthRecordProfile]

### Description

Additional information about phone contact

### Derived By

Type xsd:string



**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:PhoneInfo [type Person]****Description**

Additional information about phone contact

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:PostalCode [type HealthRecordProfile]****Description**

Postal code

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:PostalCode [type Person]****Description**

Postal code

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Prescribed [type Medication]**

**Description**

Indicates whether the medication was prescribed or over-the counter

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:PrescribedCode [type Medication]****Description**

Code for the prescribed status

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:Abbreviation Text	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCode Id	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Medication

## Element: tns4:Prescription [type Medication]

### Description

Prescription information about the medication

### Derived By

Type tns4:Prescription

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:DatePrescribed	xsd:dateTime	0..1	Yes	Date when the medication was prescribed to the person
tns4:AmountPrescribed	xsd:double	0..1	Yes	Amount prescribed (number)
tns4:AmountPrescribedUnits	xsd:string	0..1	Yes	Unit information for amount prescribed
tns4:AmountPrescribedText	xsd:string	0..1	Yes	Textual description of the amount (used if numeric value not available)
tns4:Substitution	xsd:string	0..1	Yes	Substitution information

Component	Type	Occurs	Nilable?	Description
tns4:Refills	xsd:int	0..1	Yes	Number of refills available
tns4:DaysSupply	xsd:int	0..1	Yes	How many days supply was prescribed
tns4:PrescriptionExpiration	xsd:dateTime	0..1	Yes	Expiration date of the prescription
tns4:Instructions	xsd:string	0..1	Yes	Instructions included in the prescription
tns4:AmountPrescribedUnitsCode	tns4:CodedValue	0..1	Yes	Unit code
tns4:InstructionsCode	tns4:CodedValue	0..1	Yes	Code for prescription instructions
tns4:SubstitutionCode	tns4:CodedValue	0..1	Yes	Code for the substitution value

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:Prescription****Description**

Prescription information about the medication

**Derived By**

Type tns4:Prescription

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated

Component	Type	Occurs	Nilable?	Description
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:DatePrescribed	xsd:dateTime	0..1	Yes	Date when the medication was prescribed to the person
tns4:AmountPrescribed	xsd:double	0..1	Yes	Amount prescribed (number)
tns4:AmountPrescribedUnits	xsd:string	0..1	Yes	Unit information for amount prescribed
tns4:AmountPrescribedText	xsd:string	0..1	Yes	Textual description of the amount (used if numeric value not available)
tns4:Substitution	xsd:string	0..1	Yes	Substitution information
tns4:Refills	xsd:int	0..1	Yes	Number of refills available
tns4:DaysSupply	xsd:int	0..1	Yes	How many days supply was prescribed
tns4:PrescriptionExpiration	xsd:dateTime	0..1	Yes	Expiration date of the prescription
tns4:Instructions	xsd:string	0..1	Yes	Instructions included in the prescription
tns4:AmountPrescribedUnitsCode	tns4:CodedValue	0..1	Yes	Unit code
tns4:InstructionsCode	tns4:CodedValue	0..1	Yes	Code for prescription instructions
tns4:SubstitutionCode	tns4:CodedValue	0..1	Yes	Code for the substitution value

## Element: tns4:PrescriptionExpiration [type Prescription]

### Description

Expiration date of the prescription

### Derived By

Type xsd:dateTime

### Referenced By

- Complex Type tns4:Prescription

## Element: tns4:PrimaryProviderName [type Procedure]

**Description**

Primary provider of the medical procedure

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Procedure

**Element: tns4:Private [type HealthRecordItem]****Description**

Indicates if the item has been marked as private

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Element: tns4:PrivateDataAccessEnabled [type AuthorizationInfo]****Description**

Indicates if access to private items is allowed for your application

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:AuthorizationInfo

**Element: tns4:Procedure [type ArrayOfProcedure]****Description**

Procedure

**Derived By**

Type tns4:Procedure

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Procedure name (required)
tns4:PrimaryProviderName	xsd:string	0..1	Yes	Primary provider of the medical procedure
tns4:AnatomicLocation	xsd:string	0..1	Yes	Anatomic location for the procedure

Component	Type	Occurs	Nilable?	Description
tns4:SecondaryProviderName	xsd:string	0..1	Yes	Secondary provider for the medical operation
tns4:AnatomicLocationCode	tns4:CodedValue	0..1	Yes	Anatomic location code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Procedure code

**Referenced By**

- Complex Type tns4:ArrayOfProcedure

**Element: tns4:Procedure****Description**

Medical procedure health record item type

**Derived By**

Type tns4:Procedure

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the item
tns4:TypeId	xsd:string	1..1	Yes	Taltioni item type name for the item (required field for observations and observation items)
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the item
tns4:Version	xsd:string	0..1	Yes	Health record item version
tns4:EffectiveDate Time	xsd:dateTime	0..1	Yes	Creation/measurement date of the item (required field, except for observation items)
tns4:Private	xsd:boolean	0..1	Yes	Indicates if the item has been marked as private
tns4:ReadOnly	xsd:boolean	0..1	Yes	Indicates if the item is read-only and cannot be updated
tns4:AdditionalInfoAsXml	xsd:string	0..1	Yes	Field for proprietary "ad-hoc" information in XML format
tns4:Tags	xsd:string	0..1	Yes	Comma separated list of tags that can be used for categorizing the health record items



Component	Type	Occurs	Nilable?	Description
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record item
tns4:Notes	xsd:string	0..1	Yes	Additional free text notes about the item
tns4:Name	xsd:string	1..1	Yes	Procedure name (required)
tns4:PrimaryProviderName	xsd:string	0..1	Yes	Primary provider of the medical procedure
tns4:AnatomicLocation	xsd:string	0..1	Yes	Anatomic location for the procedure
tns4:SecondaryProviderName	xsd:string	0..1	Yes	Secondary provider for the medical operation
tns4:AnatomicLocationCode	tns4:CodedValue	0..1	Yes	Anatomic location code
tns4:NameCode	tns4:CodedValue	0..1	Yes	Procedure code

## Element: tns4:Procedures [type HealthRecordData]

### Description

Procedure list

### Derived By

Type tns4:ArrayOfProcedure

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Procedure	tns4:Procedure	0..*	Yes	Procedure

### Referenced By

- Complex Type tns4:HealthRecordData

## Element: tns4:ProfessionalTraining [type HealthRecordProfile]

### Description

Not applicable for a health record owner

### Derived By

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:ProfessionalTraining [type Person]****Description**

Indicates the type of professional medical training the person has received

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns:Profile [element CreateHealthRecordProfileRequest]****Description**

Health record profile to create

**Derived By**

Type tns4:HealthRecordProfile

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created to health record profile
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the profile, not available for most applications
tns4:OrganizationId	xsd:string	0..1	Yes	Organization id (always empty for Taltioni users)
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record profile
tns4:PersonalId	xsd:string	0..1	Yes	Personal identifier (HETU, not available to most applications)
tns4:State	xsd:string	0..1	Yes	Health record state
tns4:EffectiveDate Time	xsd:dateTime	1..1	Yes	Creation date (required)

Component	Type	Occurs	Nilable?	Description
tns4:FirstName	xsd:string	1..1	Yes	First name (required)
tns4:LastName	xsd:string	1..1	Yes	Last name
tns4:FullName	xsd:string	0..1	Yes	Full name of the person (read-only, user first and last name to set the name)
tns4:MiddleName	xsd:string	0..1	Yes	Middle name
tns4:Suffix	xsd:string	0..1	Yes	Person name suffix, such as educational degree
tns4:Title	xsd:string	0..1	Yes	Localized name of the item type
tns4:EmailAddresses	xsd:string	0..1	Yes	Primary email address
tns4:EmailAddresses2	xsd:string	0..1	Yes	Secondary email address
tns4:EmailAddresses3	xsd:string	0..1	Yes	Third email address
tns4:EmailInfo	xsd:string	0..1	Yes	Additional information about the email addresses
tns4:MobilePhone	xsd:string	0..1	Yes	Mobile phone (primary)
tns4:MobilePhone2	xsd:string	0..1	Yes	Secondary mobile phone
tns4:MobilePhone3	xsd:string	0..1	Yes	Third mobile phone
tns4:VoiceCallPhone	xsd:string	0..1	Yes	Not applicable in Taltioni
tns4:HomePhone	xsd:string	0..1	Yes	Home phone (syntax: +358501234567)
tns4:WorkPhone	xsd:string	0..1	Yes	Work phone number
tns4:PhoneInfo	xsd:string	0..1	Yes	Additional information about phone contact
tns4:Description	xsd:string	0..1	Yes	Free text additional information about the profile
tns4:OrganizationInfo	xsd:string	0..1	Yes	Organization information (always empty for Taltioni users)
tns4:ProfessionalTraining	xsd:string	0..1	Yes	Not applicable for a health record owner
tns4:PersonType	xsd:string	0..1	Yes	Not applicable for health record owner
tns4:PersonTypeCode	tns4:CodedValue	0..1	Yes	Code for the person type
tns4:TimeZone	xsd:string	0..1	Yes	Time zone of the person
tns4:Language	xsd:string	0..1	Yes	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Culture	xsd:string	0..1	Yes	Culture in ISO culture code format (e.g. fi-FI)

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:DateOfDeath	xsd:dateTime	0..1	Yes	Date of death
tns4:Gender	tns4:Gender	0..1	No	Gender of the person
tns4:DateOfBirth	xsd:dateTime	0..1	Yes	Date of birth
tns4:BloodType	xsd:string	0..1	Yes	Blood type of the person
tns4:BloodTypeCode	tns4:CodedValue	0..1	Yes	Blood type code
tns4:EmploymentStatus	xsd:string	0..1	Yes	Employment status free text
tns4:EmploymentStatusCode	tns4:CodedValue	0..1	Yes	Employment status code
tns4:Ethnicity	xsd:string	0..1	Yes	Ethnicity free text
tns4:EthnicityCode	tns4:CodedValue	0..1	Yes	Ethnicity code
tns4:HighestEducationLevel	xsd:string	0..1	Yes	Highest education level (free text)
tns4:HighestEducationLevelCode	tns4:CodedValue	0..1	Yes	Code for education level
tns4:IsDeceased	xsd:boolean	0..1	Yes	Indicates if the person is deceased (dead)
tns4:IsDisabled	xsd:boolean	0..1	Yes	Indicates if the person is disabled (handicapped)
tns4:MaritalStatus	xsd:string	0..1	Yes	Marital status (single, married, divorces, etc.)
tns4:MaritalStatusCode	tns4:CodedValue	0..1	Yes	Code for the marital status
tns4:Religion	xsd:string	0..1	Yes	Religion information
tns4:ReligionCode	tns4:CodedValue	0..1	Yes	Code for the religion
tns4:SocialSecurityNumber	xsd:string	0..1	Yes	Social security number (not applicable in region Finland, PersonalId field is used to store HETU)
tns4:Street	xsd:string	0..1	Yes	Street
tns4:PostalCode	xsd:string	0..1	Yes	Postal code
tns4:City	xsd:string	0..1	Yes	City of residence
tns4:County	xsd:string	0..1	Yes	Country of residence
tns4:Country	xsd:string	0..1	Yes	Country of residence
tns4:Nationality	xsd:string	0..1	Yes	Nationality of the person (e.g. Finnish)
tns4:NationalityCode	tns4:CodedValue	0..1	Yes	Code for nationality

Component	Type	Occurs	Nilable?	Description
tns4:CustomProperties	tns4:ArrayOfCustomPropertyValue	0..1	Yes	For future reference

**Referenced By**

- Element tns:CreateHealthRecordProfileRequest

**Element: tns:Profile [element GetHealthRecordProfileResponse]****Description**

Requested health record profile

**Derived By**

Type tns4:HealthRecordProfile

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created to health record profile
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the profile, not available for most applications
tns4:OrganizationId	xsd:string	0..1	Yes	Organization id (always empty for Taltioni users)
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record profile
tns4:PersonalId	xsd:string	0..1	Yes	Personal identifier (HETU, not available to most applications)
tns4:State	xsd:string	0..1	Yes	Health record state
tns4:EffectiveDateTime	xsd:dateTime	1..1	Yes	Creation date (required)
tns4:FirstName	xsd:string	1..1	Yes	First name (required)
tns4:LastName	xsd:string	1..1	Yes	Last name
tns4:FullName	xsd:string	0..1	Yes	Full name of the person (read-only, user first and last name to set the name)
tns4:MiddleName	xsd:string	0..1	Yes	Middle name
tns4:Suffix	xsd:string	0..1	Yes	Person name suffix, such as educational degree
tns4:Title	xsd:string	0..1	Yes	Localized name of the item type

Component	Type	Occurs	Nilable?	Description
tns4:EmailAddresses	xsd:string	0..1	Yes	Primary email address
tns4:EmailAddresses2	xsd:string	0..1	Yes	Secondary email address
tns4:EmailAddresses3	xsd:string	0..1	Yes	Third email address
tns4:EmailInfo	xsd:string	0..1	Yes	Additional information about the email addresses
tns4:MobilePhone	xsd:string	0..1	Yes	Mobile phone (primary)
tns4:MobilePhone2	xsd:string	0..1	Yes	Secondary mobile phone
tns4:MobilePhone3	xsd:string	0..1	Yes	Third mobile phone
tns4:VoiceCallPhone	xsd:string	0..1	Yes	Not applicable in Taltioni
tns4:HomePhone	xsd:string	0..1	Yes	Home phone (syntax: +358501234567)
tns4:WorkPhone	xsd:string	0..1	Yes	Work phone number
tns4:PhoneInfo	xsd:string	0..1	Yes	Additional information about phone contact
tns4:Description	xsd:string	0..1	Yes	Free text additional information about the profile
tns4:OrganizationInfo	xsd:string	0..1	Yes	Organization information (always empty for Taltioni users)
tns4:ProfessionalTraining	xsd:string	0..1	Yes	Not applicable for a health record owner
tns4:PersonType	xsd:string	0..1	Yes	Not applicable for health record owner
tns4:PersonTypeCode	tns4:CodedValue	0..1	Yes	Code for the person type
tns4:TimeZone	xsd:string	0..1	Yes	Time zone of the person
tns4:Language	xsd:string	0..1	Yes	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Culture	xsd:string	0..1	Yes	Culture in ISO culture code format (e.g. fi-FI)
tns4:DateOfDeath	xsd:dateTime	0..1	Yes	Date of death
tns4:Gender	tns4:Gender	0..1	No	Gender of the person
tns4:DateOfBirth	xsd:dateTime	0..1	Yes	Date of birth
tns4:BloodType	xsd:string	0..1	Yes	Blood type of the person
tns4:BloodTypeCode	tns4:CodedValue	0..1	Yes	Blood type code
tns4:EmploymentStatus	xsd:string	0..1	Yes	Employment status free text

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:Employment StatusCode	tns4:CodedValue	0..1	Yes	Employment status code
tns4:Ethnicity	xsd:string	0..1	Yes	Ethnicity free text
tns4:EthnicityCod e	tns4:CodedValue	0..1	Yes	Ethnicity code
tns4:HighestEduc ationLevel	xsd:string	0..1	Yes	Highest education level (free text)
tns4:HighestEduc ationLevelCode	tns4:CodedValue	0..1	Yes	Code for education level
tns4:IsDeceased	xsd:boolean	0..1	Yes	Indicates if the person is deceased (dead)
tns4:IsDisabled	xsd:boolean	0..1	Yes	Indicates if the person is disabled (handicapped)
tns4:MaritalStatus	xsd:string	0..1	Yes	Marital status (single, married, divorces, etc.)
tns4:MaritalStatus Code	tns4:CodedValue	0..1	Yes	Code for the marital status
tns4:Religion	xsd:string	0..1	Yes	Religion information
tns4:ReligionCod e	tns4:CodedValue	0..1	Yes	Code for the religion
tns4:SocialSecurit yNumber	xsd:string	0..1	Yes	Social security number (not applicable in region Finland, PersonalId field is used to store HETU)
tns4:Street	xsd:string	0..1	Yes	Street
tns4:PostalCode	xsd:string	0..1	Yes	Postal code
tns4:City	xsd:string	0..1	Yes	City of residence
tns4:County	xsd:string	0..1	Yes	Country of residence
tns4:Country	xsd:string	0..1	Yes	Country of residence
tns4:Nationality	xsd:string	0..1	Yes	Nationality of the person (e.g. Finnish)
tns4:NationalityCo de	tns4:CodedValue	0..1	Yes	Code for nationality
tns4:CustomProp erties	tns4:ArrayOfCusto mPropertyValue	0..1	Yes	For future reference

**Referenced By**

- Element tns:GetHealthRecordProfileResponse

**Element: tns:Profile [element UpdateHealthRecordProfileRequest]**

**Description**

Health record profile to update, field Id is mandatory

**Derived By**

Type tns4:HealthRecordProfile

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created to health record profile
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the profile, not available for most applications
tns4:OrganizationId	xsd:string	0..1	Yes	Organization id (always empty for Taltioni users)
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the health record profile
tns4:PersonalId	xsd:string	0..1	Yes	Personal identifier (HETU, not available to most applications)
tns4:State	xsd:string	0..1	Yes	Health record state
tns4:EffectiveDateTime	xsd:dateTime	1..1	Yes	Creation date (required)
tns4:FirstName	xsd:string	1..1	Yes	First name (required)
tns4:LastName	xsd:string	1..1	Yes	Last name
tns4:FullName	xsd:string	0..1	Yes	Full name of the person (read-only, user first and last name to set the name)
tns4:MiddleName	xsd:string	0..1	Yes	Middle name
tns4:Suffix	xsd:string	0..1	Yes	Person name suffix, such as educational degree
tns4:Title	xsd:string	0..1	Yes	Localized name of the item type
tns4:EmailAddresses	xsd:string	0..1	Yes	Primary email address
tns4:EmailAddresses2	xsd:string	0..1	Yes	Secondary email address
tns4:EmailAddresses3	xsd:string	0..1	Yes	Third email address
tns4:EmailInfo	xsd:string	0..1	Yes	Additional information about the email addresses
tns4:MobilePhone	xsd:string	0..1	Yes	Mobile phone (primary)



Component	Type	Occurs	Nilable?	Description
tns4:MobilePhone2	xsd:string	0..1	Yes	Secondary mobile phone
tns4:MobilePhone3	xsd:string	0..1	Yes	Third mobile phone
tns4:VoiceCallPhone	xsd:string	0..1	Yes	Not applicable in Taltioni
tns4:HomePhone	xsd:string	0..1	Yes	Home phone (syntax: +358501234567)
tns4:WorkPhone	xsd:string	0..1	Yes	Work phone number
tns4:PhoneInfo	xsd:string	0..1	Yes	Additional information about phone contact
tns4:Description	xsd:string	0..1	Yes	Free text additional information about the profile
tns4:OrganizationInfo	xsd:string	0..1	Yes	Organization information (always empty for Taltioni users)
tns4:ProfessionalTraining	xsd:string	0..1	Yes	Not applicable for a health record owner
tns4:PersonType	xsd:string	0..1	Yes	Not applicable for health record owner
tns4:PersonTypeCode	tns4:CodedValue	0..1	Yes	Code for the person type
tns4:TimeZone	xsd:string	0..1	Yes	Time zone of the person
tns4:Language	xsd:string	0..1	Yes	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Culture	xsd:string	0..1	Yes	Culture in ISO culture code format (e.g. fi-FI)
tns4:DateOfDeath	xsd:dateTime	0..1	Yes	Date of death
tns4:Gender	tns4:Gender	0..1	No	Gender of the person
tns4:DateOfBirth	xsd:dateTime	0..1	Yes	Date of birth
tns4:BloodType	xsd:string	0..1	Yes	Blood type of the person
tns4:BloodTypeCode	tns4:CodedValue	0..1	Yes	Blood type code
tns4:EmploymentStatus	xsd:string	0..1	Yes	Employment status free text
tns4:EmploymentStatusCode	tns4:CodedValue	0..1	Yes	Employment status code
tns4:Ethnicity	xsd:string	0..1	Yes	Ethnicity free text
tns4:EthnicityCode	tns4:CodedValue	0..1	Yes	Ethnicity code
tns4:HighestEducationLevel	xsd:string	0..1	Yes	Highest education level (free text)
tns4:HighestEducationLevelCode	tns4:CodedValue	0..1	Yes	Code for education level

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:IsDeceased	xsd:boolean	0..1	Yes	Indicates if the person is deceased (dead)
tns4:IsDisabled	xsd:boolean	0..1	Yes	Indicates if the person is disabled (handicapped)
tns4:MaritalStatus	xsd:string	0..1	Yes	Marital status (single, married, divorces, etc.)
tns4:MaritalStatus Code	tns4:CodedValue	0..1	Yes	Code for the marital status
tns4:Religion	xsd:string	0..1	Yes	Religion information
tns4:ReligionCode	tns4:CodedValue	0..1	Yes	Code for the religion
tns4:SocialSecurityNumber	xsd:string	0..1	Yes	Social security number (not applicable in region Finland, PersonalId field is used to store HETU)
tns4:Street	xsd:string	0..1	Yes	Street
tns4:PostalCode	xsd:string	0..1	Yes	Postal code
tns4:City	xsd:string	0..1	Yes	City of residence
tns4:County	xsd:string	0..1	Yes	Country of residence
tns4:Country	xsd:string	0..1	Yes	Country of residence
tns4:Nationality	xsd:string	0..1	Yes	Nationality of the person (e.g. Finnish)
tns4:NationalityCode	tns4:CodedValue	0..1	Yes	Code for nationality
tns4:CustomProperties	tns4:ArrayOfCustomPropertyValue	0..1	Yes	For future reference

**Referenced By**

- Element tns:UpdateHealthRecordProfileRequest

**Element: tns4:PropertyDefinition [type CustomPropertyValue]****Description**

For future reference

**Derived By**

Type tns4:DynamicPropertyInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:IsRequired	xsd:boolean	1..1	No	Indicates if a value is required for this item
tns4:Name	xsd:string	1..1	Yes	Detailed info
tns4:NameCode	tns4:CodedValue	0..1	Yes	Value type code
tns4:Title	tns4:MultiLanguage Value	0..1	Yes	Localized title for the value type
tns4:Description	tns4:MultiLanguage Value	0..1	Yes	Free text additional information about the type
tns4:ExampleText	tns4:MultiLanguage Value	0..1	Yes	Example value for the type
tns4:ValueType	tns4:ItemValueType	1..1	No	Value type (see ItemValueType in Simple Types for more information)
tns4:Unit	xsd:string	0..1	Yes	Unit for the dynamic value
tns4:UnitCode	tns4:CodedValue	0..1	Yes	Code for the unit
tns4:DefaultChoiceValue	xsd:string	0..1	Yes	Default choice value
tns4:DefaultTextValue	xsd:string	0..1	Yes	Default text value
tns4:DefaultNumberValue	xsd:double	0..1	Yes	Default number value
tns4:DefaultDateValue	xsd:string	0..1	Yes	Default date value
tns4:DefaultBooleanValue	xsd:boolean	0..1	Yes	Default boolean value
tns4:MinInclusive	xsd:double	0..1	Yes	Minimum value allowed for the item (applies to numeric values only)
tns4:MaxInclusive	xsd:double	0..1	Yes	Maximum value allowed for the item (applies to numeric values only)
tns4:MinSelect	xsd:int	0..1	Yes	Minimum number of values that can be selected (applies to multiselect values only)
tns4:MaxSelect	xsd:int	0..1	Yes	Maximum number of values that can be selected (applies to multiselect values only)
tns4:Step	xsd:double	0..1	Yes	Indicates the numeric step between values of this type (can be used to populate a select list of available values)
tns4:FormatString	xsd:string	0..1	Yes	Format string used when presenting the value as string (e.g. "{0:0}" for integer)
tns4:MinLength	xsd:int	0..1	Yes	Minimum number of values that can be selected (applies to multiselect values only)

**Content Model**

Component	Type	Occurs	Nilable?	Description
tns4:MaxLength	xsd:int	0..1	Yes	Maximum length (applies to text values only)
tns4:AdditionalInfo	xsd:string	0..1	Yes	Free text field for additional info about the value type
tns4:TextValueCodeSubGroup	xsd:string	0..1	Yes	Indicates the code sub group that must be used for the codable value. Use a code that belongs to this sub group.
tns4:UnitCodeSubGroup	xsd:string	0..1	Yes	Indicates the code sub group that must be used for the unit code. Use a code that belongs to this sub group.

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:PropertyDefinitionId [type CustomPropertyValue]****Description**

For future reference

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns2:QName****Description**

Standard XML type

**Derived By**

Type xsd:QName

**Element: tns4:Reaction [type Allergy]****Description**

Description of the allergic reaction

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:ReactionCode [type Allergy]****Description**

Code for the allergic reaction

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:ReadAccessItemTypes [type ApplicationInfo]**

**Description**

Item types that your application can read

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns4:ReadAccessItemTypes [type AuthorizationInfo]****Description**

Item types that your application can read

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Referenced By**

- Complex Type tns4:AuthorizationInfo

**Element: tns4:ReadOnly [type HealthRecordItem]****Description**

Indicates if the item is read-only and cannot be updated

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Element: tns4:Reason [type Medication]****Description**

Reason for taking the medication

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns3:ReceiverFault****Description**

Indicates that the service could not process the request due to an unknown reason. Review message syntax and content before contacting the service provider.

**Derived By**

Type tns3:ReceiverFault

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns3:Code	tns3:ReceiverFault Code	0..1	No	Fault code

## Element: tns:ReceiverFault

### Description

Indicates that the service could not process the request due to an unknown reason. Review message syntax and content before contacting the service provider.

### Derived By

Type tns3:ReceiverFault

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns3:Code	tns3:ReceiverFault Code	0..1	No	Fault code

## Element: tns3:ReceiverFaultCode

### Description

Code for the receiver fault

### Derived By

Type tns3:ReceiverFaultCode

### Enumeration

Value	Description
InternalServerError	

## Element: tns4:Refills [type Prescription]

### Description

Number of refills available



**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns4:Region [type CodedValue]****Description**

Region where the code is used (FI for Finland)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodedValue

**Element: tns4:Region [type CodeFilter]****Description**

Region where the code is used (FI for Finland)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodeFilter

**Element: tns4:Religion [type HealthRecordProfile]****Description**

Religion information

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

## Element: tns4:ReligionCode [type HealthRecordProfile]

### Description

Code for the religion

### Derived By

Type tns4:CodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

### Referenced By

- Complex Type tns4:HealthRecordProfile

## Element: tns:RemoveApplicationAuthorizationRequest

### Description

Request element for the operation

### Derived By

Restricting xsd:anyType

**Content Model**

Always empty.

**Element: tns:RemoveApplicationAuthorizationResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Success	xsd:boolean	0..1	No	Indicates if the authorization was removed successfully

**Element: tns:RequestId****Description**

Globally unique identifier for the request

**Derived By**

Type tns2:guid

**Restrictions**

- Value must match the following pattern: [\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}

**Element: tns4:Route [type Immunization]****Description**

Immunization medical route

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:RouteCode [type Immunization]****Description**

Code for the immunization route

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Immunization

**Element: tns4:SecondaryProviderName [type Procedure]****Description**

Secondary provider for the medical operation

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Procedure

**Element: tns3:SenderFault****Description**

Indicates that the reason for the error is probably within your application, such as invalid message syntax or content.

**Derived By**

Type tns3:SenderFault

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns3:Code	tns3:SenderFaultCode	0..1	No	Fault code

**Element: tns:SenderFault****Description**

Indicates that the reason for the error is probably within your application, such as invalid message syntax or content.

**Derived By**

Type tns3:SenderFault

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns3:Code	tns3:SenderFaultCode	0..1	No	Fault code

## Element: tns3:SenderFaultCode

### Description

Code for the sender fault

### Derived By

Type tns3:SenderFaultCode

### Enumeration

Value	Description
AccessDenied	
ValidationError	
MalformedRequest	

## Element: tns4:Sequence [type Immunization]

### Description

Sequence information

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:Immunization

## Element: tns4:SerialNumber [type DeviceInformation]

### Description

Serial number of the device

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:DeviceInformation

## Element: tns:ServiceDescription [element AboutResponse]

**Description**

Service description

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:AboutResponse

**Element: tns2:short****Description**

Standard XML type

**Derived By**

Type xsd:short

**Element: tns4:SocialSecurityNumber [type HealthRecordProfile]****Description**

Social security number (not applicable in region Finland, PersonalId field is used to store HETU)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns:SourceSystem [element GetHealthRecordItemRequest]****Description**

Source system for the data (system of origin)

**Derived By**

Type xsd:string

**Referenced By**

- Element tns:GetHealthRecordItemRequest

**Element: tns4:SourceSystem [type AuditInfo]****Description**

Source system for the data (system of origin)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:AuditInfo

**Element: tns:StartDateTime [element GetHealthRecordItemsPagedRequest]****Description**

Restricts the results to items created on or after the start date

**Derived By**

Type xsd:dateTime

**Referenced By**

- Element tns:GetHealthRecordItemsPagedRequest

**Element: tns:StartDateTime [element GetHealthRecordItemsRequest]****Description**

Restricts the results to items created on or after the start date

**Derived By**

Type xsd:dateTime

**Referenced By**

- Element tns:GetHealthRecordItemsRequest

**Element: tns4:State [type ApplicationInfo]****Description**

Application state

**Derived By**

Type xsd:string



**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns4:State [type HealthRecordProfile]****Description**

Health record state

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:State [type Person]****Description**

Person state

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Status [type Condition]****Description**

Condition status

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Condition

**Element: tns4:StatusCode [type Condition]**

**Description**

Code for the condition status

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Condition

**Element: tns4:Step [type DynamicPropertyInfo]****Description**

Indicates the numeric step between values of this type (can be used to populate a select list of available values)

**Derived By**

Type xsd:double

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

## Element: tns4:StopDate [type Condition]

### Description

Date when the condition was resolved

### Derived By

Type xsd:dateTime

### Referenced By

- Complex Type tns4:Condition

## Element: tns4:StopReason [type Condition]

### Description

Indicates how the condition was resolved

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:Condition

## Element: tns:StoreHealthRecordItemsRequest

### Description

Request element for the operation

### Derived By

Restricting xsd:anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:HealthRecord Data	tns4:HealthRecord Data	0..1	Yes	Container for health record items
tns:AbortOnError	xsd:boolean	0..1	No	Indicates whether to abort the operation if an error occurs

## Element: tns:StoreHealthRecordItemsResponse

### Description

Response element for the operation

### Derived By

Restricting xsd:anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:StoreItemsResult	tns4:StoreItemsResult	0..1	Yes	Results of the operation

## Element: tns4:StoreItemResult [type ArrayOfStoreItemResult]

### Description

Store result for one specific item

### Derived By

Type tns4:StoreItemResult

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ItemType	xsd:string	1..1	Yes	Health record item type
tns4:ItemId	xsd:string	1..1	Yes	Taltioni internal item id (GUID format)
tns4:IdInSourceSystem	xsd:string	0..1	Yes	Id of the item in the source system
tns4:Success	xsd:boolean	1..1	No	Indicates if the item was stored successfully
tns4:ErrorMessage	xsd:string	0..1	Yes	Error message related to the item

### Referenced By

- Complex Type tns4:ArrayOfStoreItemResult

## Element: tns4:StoreItemResult

### Description

Store result for one specific item

### Derived By

Type tns4:StoreItemResult

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ItemType	xsd:string	1..1	Yes	Health record item type
tns4:ItemId	xsd:string	1..1	Yes	Taltioni internal item id (GUID format)
tns4:IdInSourceSystem	xsd:string	0..1	Yes	Id of the item in the source system
tns4:Success	xsd:boolean	1..1	No	Indicates if the item was stored successfully
tns4:ErrorMessage	xsd:string	0..1	Yes	Error message related to the item

## Element: tns4:StoreItemsCount [type AuthorizationInfo]

### Description

Number of store items operations performed

### Derived By

Type xsd:int

### Referenced By

- Complex Type tns4:AuthorizationInfo

## Element: tns:StoreItemsResult [element StoreHealthRecordItemsResponse]

### Description

Results of the operation

### Derived By

Type tns4:StoreItemsResult

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:IsErrors	xsd:boolean	0..1	No	Indicates if errors occurred during the store request
tns4:ErrorMessages	tns6:ArrayOfstring	0..1	Yes	List of errors that occurred while processing the store request
tns4:OperationAborted	xsd:boolean	0..1	No	Indicates that the store operation was aborted due to errors
tns4:DetailedResults	tns4:ArrayOfStoreItemResult	0..1	Yes	Detailed results for each item

**Referenced By**

- Element tns:StoreHealthRecordItemsResponse

**Element: tns4:StoreItemsResult****Description**

Results of the operation

**Derived By**

Type tns4:StoreItemsResult

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:IsErrors	xsd:boolean	0..1	No	Indicates if errors occurred during the store request
tns4:ErrorMessages	tns6:ArrayOfstring	0..1	Yes	List of errors that occurred while processing the store request
tns4:OperationAborted	xsd:boolean	0..1	No	Indicates that the store operation was aborted due to errors
tns4:DetailedResults	tns4:ArrayOfStoreItemResult	0..1	Yes	Detailed results for each item

**Element: tns4:Street [type HealthRecordProfile]**

**Description**

Street

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Street [type Person]****Description**

Street

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Strength [type Medication]****Description**

Medication strength

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns6:string [type ArrayOfstring]****Description**

Standard XML type

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns6:ArrayOfstring

**Element: tns2:string****Description**

Standard XML type

**Derived By**

Type xsd:string

**Element: tns4:SubGroup [type CodedValue]****Description**

Code sub group, used to group related codesets

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodedValue

**Remarks**

Sub group information for coded properties is available via the GetHealthRecordItemTypes operation. When setting a value for a code, ensure that the code belongs to the correct sub group.

**Element: tns4:SubGroup [type CodeFilter]****Description**

Code sub group, used to group related codesets - sub group information for coded properties is available via the GetHealthRecordItemTypes operation

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodeFilter

**Element: tns4:SubstanceAdministration [type Medication]**



**Description**

Substance administration information

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Medication

**Element: tns4:Substitution [type Prescription]****Description**

Substitution information

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns4:SubstitutionCode [type Prescription]****Description**

Code for the substitution value

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)

Component	Type	Occurs	Nilable?	Description
tns4:DisplayText	tns4:MultiLanguage Value	0..1	Yes	Localized display text for the code
tns4:Abbreviation Text	tns4:MultiLanguage Value	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCode Id	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Prescription

**Element: tns:Success [element DeleteHealthRecordItemsResponse]****Description**

Indicates if the items were deleted successfully

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:DeleteHealthRecordItemsResponse

**Element: tns:Success [element RemoveApplicationAuthorizationResponse]****Description**

Indicates if the authorization was removed successfully

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:RemoveApplicationAuthorizationResponse

**Element: tns:Success [element UpdateHealthRecordProfileResponse]**

**Description**

Indicates if the health record profile was updates successfully

**Derived By**

Type xsd:boolean

**Referenced By**

- Element tns:UpdateHealthRecordProfileResponse

**Element: tns4:Success [type StoreItemResult]****Description**

Indicates if the item was stored successfully

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:StoreItemResult

**Element: tns4:Suffix [type HealthRecordProfile]****Description**

Person name suffix, such as educational degree

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Suffix [type Person]****Description**

Person name suffix, such as educational degree

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Tags [type HealthRecordItem]****Description**

Comma separated list of tags that can be used for categorizing the health record items

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Element: tns4:TextValue [type CustomPropertyValue]****Description**

For future reference

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:TextValue [type ObservationItem]**

**Description**

Text value for the observation (applicable if value type is text)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ObservationItem

**Element: tns4:TextValueCode [type CustomPropertyValue]****Description**

Code for the text value

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:CustomPropertyValue

## Element: tns4:TextValueCode [type ObservationItem]

### Description

Code for the text value

### Derived By

Type tns4:CodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

### Referenced By

- Complex Type tns4:ObservationItem

## Element: tns4:TextValueCodeSubGroup [type DynamicPropertyInfo]

### Description

Indicates the code sub group that must be used for the codable value. Use a code that belongs to this sub group.

### Derived By

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns:Timestamp****Description**

Current timestamp as string, must be given as xsd:dateTime format in universal time (UTC). Example: 2013-01-01T17:00:00Z

**Derived By**

Type xsd:string

**Element: tns4:TimeZone [type HealthRecordProfile]****Description**

Time zone of the person

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:TimeZone [type Person]****Description**

Time zone of the person

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Title [type DynamicPropertyInfo]****Description**

Localized title for the value type

**Derived By**

Type tns4:MultiLanguageValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:Title [type HealthRecordItemType]****Description**

Localized name of the item type

**Derived By**

Type tns4:MultiLanguageValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Items	tns5:ArrayOfMultiLanguageValueItem	1..1	Yes	Translations of the term

**Referenced By**

- Complex Type tns4:HealthRecordItemType

**Element: tns4:Title [type HealthRecordProfile]****Description**

Localized name of the item type

**Derived By**

Type xsd:string



**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:Title [type Person]****Description**

Title of the person, e.g. Dr.

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:Treatment [type Allergy]****Description**

Allergy treatment information

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:TreatmentCode [type Allergy]****Description**

Code for the treatment value

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")

Component	Type	Occurs	Nilable?	Description
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:TreatmentProviderName [type Allergy]****Description**

Treatment provider name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy

**Element: tns4:TypeCode [type HealthRecordItemType]****Description**

Code for the item type

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:HealthRecordItemType

**Element: tns4:TypeCode [type ObservationItemType]****Description**

Code for the observation item type

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code

Component	Type	Occurs	Nilable?	Description
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:ObservationItemType

**Element: tns4:TypeId [type HealthRecordItem]****Description**

Taltioni item type name for the item (required field for observations and observation items)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition
- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

**Element: tns4:TypeId [type HealthRecordItemType]****Description**

Taltioni item type name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordItemType

**Element: tns4:TypedId [type ObservationItemType]****Description**

Taltioni item type name

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ObservationItemType

**Element: tns4:Unit [type CustomPropertyValue]****Description**

For future reference

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:Unit [type DynamicPropertyInfo]****Description**

Unit for the dynamic value

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

## Element: tns4:Unit [type ObservationItem]

### Description

Unit for the observation item (required for measurements)

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:ObservationItem

## Element: tns4:UnitCode [type CustomPropertyValue]

### Description

For future reference

### Derived By

Type tns4:CodedValue

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:UnitCode [type DynamicPropertyInfo]****Description**

Code for the unit

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:UnitCode [type ObservationItem]****Description**

Code for the unit

**Derived By**

Type tns4:CodedValue

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:Family	xsd:string	0..1	Yes	Code family (e.g. "RxNorm" or "ICD")
tns4:VocabularyName	xsd:string	0..1	Yes	Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"
tns4:Version	xsd:string	0..1	Yes	Code version, e.g. 1.0
tns4:Value	xsd:string	1..1	Yes	Code value (required)
tns4:DisplayText	tns4:MultiLanguageValue	0..1	Yes	Localized display text for the code
tns4:AbbreviationText	tns4:MultiLanguageValue	0..1	Yes	Abbreviation for the coded value
tns4:Region	xsd:string	0..1	Yes	Region where the code is used (FI for Finland)
tns4:InternalCodeId	xsd:string	0..1	Yes	Taltioni internal id for the code
tns4:SubGroup	xsd:string	0..1	Yes	Code sub group, used to group related codesets

**Referenced By**

- Complex Type tns4:ObservationItem

**Element: tns4:UnitCodeSubGroup [type DynamicPropertyInfo]****Description**

Indicates the code sub group that must be used for the unit code. Use a code that belongs to this sub group.

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns2:unsignedByte**



**Description**

Standard XML type

**Derived By**

Type xsd:unsignedByte

**Element: tns2:unsignedInt****Description**

Standard XML type

**Derived By**

Type xsd:unsignedInt

**Element: tns2:unsignedLong****Description**

Standard XML type

**Derived By**

Type xsd:unsignedLong

**Element: tns2:unsignedShort****Description**

Standard XML type

**Derived By**

Type xsd:unsignedShort

**Element: tns:UpdateHealthRecordProfileRequest****Description**

Request element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Profile	tns4:HealthRecord Profile	0..1	Yes	Health record profile to update, field Id is mandatory

**Element: tns:UpdateHealthRecordProfileResponse****Description**

Response element for the operation

**Derived By**

Restricting xsd:anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:Success	xsd:boolean	0..1	No	Indicates if the health record profile was updates successfully

**Element: tns4:UpdateProfileCount [type AuthorizationInfo]****Description**

Number of update profile operations performed

**Derived By**

Type xsd:int

**Referenced By**

- Complex Type tns4:AuthorizationInfo

**Element: tns:UserProfile [element GetUserProfileResponse]****Description**

Requested user profile

**Derived By**

Type tns4:Person

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:ApplicationId	xsd:string	0..1	Yes	Application that created the Person
tns4:Id	xsd:string	0..1	Yes	Taltioni internal unique Id of the person, not available for most applications
tns4:OrganizationId	xsd:string	0..1	Yes	Organization id (always empty for Taltioni users)
tns4:AuditInfo	tns4:AuditInfo	0..1	Yes	Audit information related to the person
tns4:PersonalId	xsd:string	0..1	Yes	Personal identifier (HETU, not available to most applications)
tns4:State	xsd:string	0..1	Yes	Person state
tns4:EffectiveDateTime	xsd:dateTime	1..1	Yes	Creation date (required)
tns4:FirstName	xsd:string	1..1	Yes	First name (required)
tns4:LastName	xsd:string	1..1	Yes	Last name
tns4:FullName	xsd:string	0..1	Yes	Full name of the person (read-only, user first and last name to set the name)
tns4:MiddleName	xsd:string	0..1	Yes	Middle name
tns4:Suffix	xsd:string	0..1	Yes	Person name suffix, such as educational degree
tns4:Title	xsd:string	0..1	Yes	Title of the person, e.g. Dr.
tns4:EmailAddresses	xsd:string	0..1	Yes	Primary email address
tns4:EmailAddresses2	xsd:string	0..1	Yes	Secondary email address
tns4:EmailAddresses3	xsd:string	0..1	Yes	Third email address
tns4:EmailInfo	xsd:string	0..1	Yes	Additional information about the email addresses
tns4:MobilePhone	xsd:string	0..1	Yes	Mobile phone (primary)
tns4:MobilePhone2	xsd:string	0..1	Yes	Secondary mobile phone
tns4:MobilePhone3	xsd:string	0..1	Yes	Third mobile phone
tns4:VoiceCallPhone	xsd:string	0..1	Yes	Not applicable in Taltioni

Component	Type	Occurs	Nilable?	Description
tns4:HomePhone	xsd:string	0..1	Yes	Home phone (syntax: +358501234567)
tns4:WorkPhone	xsd:string	0..1	Yes	Work phone number
tns4:PhoneInfo	xsd:string	0..1	Yes	Additional information about phone contact
tns4:Description	xsd:string	0..1	Yes	Free text additional information about the person
tns4:OrganizationInfo	xsd:string	0..1	Yes	Organization information (always empty for Taltioni users)
tns4:Professional Training	xsd:string	0..1	Yes	Indicates the type of professional medical training the person has received
tns4:PersonType	xsd:string	0..1	Yes	Indicates the relationship between the health record owner and the user
tns4:PersonType Code	tns4:CodedValue	0..1	Yes	Code for the person type
tns4:TimeZone	xsd:string	0..1	Yes	Time zone of the person
tns4:Language	xsd:string	0..1	Yes	Primary language of the person (ISO two-letter language code, e.g. fi for Finnish)
tns4:Culture	xsd:string	0..1	Yes	Culture in ISO culture code format (e.g. fi-FI)
tns4:Street	xsd:string	0..1	Yes	Street
tns4:PostalCode	xsd:string	0..1	Yes	Postal code
tns4:City	xsd:string	0..1	Yes	City of residence
tns4:County	xsd:string	0..1	Yes	Country of residence
tns4:Country	xsd:string	0..1	Yes	Country of residence
tns4:Nationality	xsd:string	0..1	Yes	Nationality of the person (e.g. Finnish)
tns4:NationalityCode	tns4:CodedValue	0..1	Yes	Code for nationality

**Referenced By**

- Element tns:GetUserProfileResponse

**Element: tns4:Value [type CodedValue]****Description**

Code value (required)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodedValue

**Element: tns4:Value [type CodeFilter]****Description**

Code value

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodeFilter

**Element: tns5:Value [type MultiLanguageValueItem]****Description**

Localized text

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns5:MultiLanguageValueItem

**Element: tns4:ValueAsString [type CustomPropertyValue]****Description**

For future reference

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:ValueAsString [type ObservationItem]**

**Description**

String representation of the value (read-only field, use TextValue in store operations)

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ObservationItem

**Element: tns4:ValueType [type CustomPropertyValue]****Description**

For future reference

**Derived By**

Type tns4:ItemValueType

**Enumeration**

Value	Description
Number	
Text	
Choice	
YesNo	
CodableValue	
StructuredMeasurement	
DateTime	

**Referenced By**

- Complex Type tns4:CustomPropertyValue

**Element: tns4:ValueType [type DynamicPropertyInfo]****Description**

Value type (see ItemValueType in Simple Types for more information)

**Derived By**

Type tns4:ItemValueType

**Enumeration**

Value	Description
Number	
Text	
Choice	
YesNo	
CodableValue	
StructuredMeasurement	
DateTime	

**Referenced By**

- Complex Type tns4:DynamicPropertyInfo

**Element: tns4:ValueType [type ObservationItem]****Description**

Value type (read-only field, indicates the type of value accepted for this item, see Simple Types for more information)

**Derived By**

Type tns4:ItemValueType

**Enumeration**

Value	Description
Number	
Text	
Choice	
YesNo	
CodableValue	
StructuredMeasurement	
DateTime	

**Referenced By**

- Complex Type tns4:ObservationItem

**Element: tns4:ValueTypeInformation [type ObservationItemType]**

**Description**

Detailed information on the type of value required for this observation item

**Derived By**

Type tns4:DynamicPropertyInfo

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns4:IsRequired	xsd:boolean	1..1	No	Indicates if a value is required for this item
tns4:Name	xsd:string	1..1	Yes	Detailed info
tns4:NameCode	tns4:CodedValue	0..1	Yes	Value type code
tns4:Title	tns4:MultiLanguage Value	0..1	Yes	Localized title for the value type
tns4:Description	tns4:MultiLanguage Value	0..1	Yes	Free text additional information about the type
tns4:ExampleText	tns4:MultiLanguage Value	0..1	Yes	Example value for the type
tns4:ValueType	tns4:ItemValueType	1..1	No	Value type (see ItemValueType in Simple Types for more information)
tns4:Unit	xsd:string	0..1	Yes	Unit for the dynamic value
tns4:UnitCode	tns4:CodedValue	0..1	Yes	Code for the unit
tns4:DefaultChoiceValue	xsd:string	0..1	Yes	Default choice value
tns4:DefaultTextValue	xsd:string	0..1	Yes	Default text value
tns4:DefaultNumberValue	xsd:double	0..1	Yes	Default number value
tns4:DefaultDateValue	xsd:string	0..1	Yes	Default date value
tns4:DefaultBooleanValue	xsd:boolean	0..1	Yes	Default boolean value
tns4:MinInclusive	xsd:double	0..1	Yes	Minimum value allowed for the item (applies to numeric values only)
tns4:MaxInclusive	xsd:double	0..1	Yes	Maximum value allowed for the item (applies to numeric values only)
tns4:MinSelect	xsd:int	0..1	Yes	Minimum number of values that can be selected (applies to multiselect values only)



Component	Type	Occurs	Nilable?	Description
tns4:MaxSelect	xsd:int	0..1	Yes	Maximum number of values that can be selected (applies to multiselect values only)
tns4:Step	xsd:double	0..1	Yes	Indicates the numeric step between values of this type (can be used to populate a select list of available values)
tns4:FormatString	xsd:string	0..1	Yes	Format string used when presenting the value as string (e.g. "{0:0}" for integer)
tns4:MinLength	xsd:int	0..1	Yes	Minimum number of values that can be selected (applies to multiselect values only)
tns4:MaxLength	xsd:int	0..1	Yes	Maximum length (applies to text values only)
tns4:AdditionalInfo	xsd:string	0..1	Yes	Free text field for additional info about the value type
tns4:TextValueCodeSubGroup	xsd:string	0..1	Yes	Indicates the code sub group that must be used for the codable value. Use a code that belongs to this sub group.
tns4:UnitCodeSubGroup	xsd:string	0..1	Yes	Indicates the code sub group that must be used for the unit code. Use a code that belongs to this sub group.

**Referenced By**

- Complex Type tns4:ObservationItemType

**Element: tns4:VendorDescription [type ApplicationInfo]****Description**

Vendor description

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns4:VendorId [type ApplicationInfo]****Description**

Vendor id

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns4:Version [type CodedValue]****Description**

Code version, e.g. 1.0

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodedValue

**Element: tns4:Version [type CodeFilter]****Description**

Code version, e.g. 1.0

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:CodeFilter

**Element: tns4:Version [type HealthRecordItem]****Description**

Health record item version

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Allergy
- Complex Type tns4:Condition

- Complex Type tns4:HealthRecordFile
- Complex Type tns4:HealthRecordItem
- Complex Type tns4:Immunization
- Complex Type tns4:LabTestResult
- Complex Type tns4:LabTestResultValue
- Complex Type tns4:Medication
- Complex Type tns4:Observation
- Complex Type tns4:ObservationItem
- Complex Type tns4:Prescription
- Complex Type tns4:Procedure

## Element: tns4:VocabularyName [type CodedValue]

### Description

Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:CodedValue

## Element: tns4:VocabularyName [type CodeFilter]

### Description

Vocabulary of the code, e.g. "ICD-10" or "RxNorm Active Ingredients"

### Derived By

Type xsd:string

### Referenced By

- Complex Type tns4:CodeFilter

## Element: tns4:VoiceCallPhone [type HealthRecordProfile]

### Description

Not applicable in Taltioni

### Derived By

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:VoiceCallPhone [type Person]****Description**

Not applicable in Taltioni

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:WorkPhone [type HealthRecordProfile]****Description**

Work phone number

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:HealthRecordProfile

**Element: tns4:WorkPhone [type Person]****Description**

Work phone number

**Derived By**

Type xsd:string

**Referenced By**

- Complex Type tns4:Person

**Element: tns4:WriteAccessEnabled [type AuthorizationInfo]**

**Description**

Indicates if write access is enabled for the authorization. Write access is enabled for your application only if the user is the owner of the health record or has write access to it.

**Derived By**

Type xsd:boolean

**Referenced By**

- Complex Type tns4:AuthorizationInfo

**Element: tns4:WriteAccessItemTypes [type ApplicationInfo]****Description**

Item types that your application can create and update

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Referenced By**

- Complex Type tns4:ApplicationInfo

**Element: tns4:WriteAccessItemTypes [type AuthorizationInfo]****Description**

Item types that your application can create and update

**Derived By**

Type tns6:ArrayOfstring

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns6:string	xsd:string	0..*	Yes	Standard XML type

**Referenced By**

- Complex Type tns4:AuthorizationInfo

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