

Bundle instructions

Bundle support has been implemented in the Kanta Personal Health Record (PHR). Bundle support is implemented for batch and transaction-type bundles. In a batch-type bundle, resources are processed individually, and the failure of one resource processing does not affect the success of the bundle. In a transaction-type bundle, the failure of processing an individual resource leads to the failure of the entire bundle.

Bundle support is implemented for create, conditional create, and update interactions. The supported resource types are the same as in the processing of individual resources. The supported resource types can be found in Chapter 7.1 of the authorization guide (Read more from the authorization guide, PDF). Bundle support is only implemented for the R4 interface, and a bundle can contain only one user's resources.

A bundle can contain different types of resources when the wellness application has write scope for all resource types to be stored in the bundle. If permission to handle a certain resource is missing, the entire bundle is rejected. The entire bundle is also rejected if any of the resources in the bundle have validation errors.

The sent bundle must have a unique identifier, such as a random UUID. The identifier is provided in the "id" field. If the "id" is missing, it is generated in Omatietovaranto. The provided or generated "id" is returned in the "id" field of the bundle response. The "id" can be utilized for troubleshooting.

Transaction

Within the bundle, all resources must have a "fullUrl" element. In a transaction-type bundle, it is possible to refer to other resources stored in the same bundle. When referencing, the "fullUrl" field must be in the format of "urn:uuid" and it must be unique.

Example of the "fullUrl" field:

```
"fullUrl": "urn:uuid:05efabf0-4be2-4561-91ce-51548425acb9"
```

In this case, the resource is referred to as follows:

```
"reference": "urn:uuid:05efabf0-4be2-4561-91ce-51548425acb9",  
"type": "Observation"
```

The reference must have a corresponding "fullUrl" in another resource within the bundle, and its type must match the "type" field.

Conditional references to a database are not supported. For example: "reference":
["http://example.org/base/Patient?identifier=1234"](http://example.org/base/Patient?identifier=1234)

Other Considerations

When a application intends to start using Bundle, the application needs to perform separate integration testing..

Change history

Version	Change	Made by	Date
1.1	Added information from Buble	Kela Kanta services	8.6.2023
1.0	First version published	Kela Kanta services	1.12.2022