Authorization guide for the sandbox environment

Kanta Personal Health Record 10.5.2023 Kela

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### Change History

Version	Change	Author	Date
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1.1	Updated to match the current rules, clarified the usage of test SSNs and updated the new addresses of the sandbox-servers	Kela Kanta services	17.04.2018
1.2	Technical scopes section updated. Terminology harmonized.	Kela Kanta services	23.10.2018
1.2	Updated state-parameter to token endpoint, updated request examples and urls, added maintenance only -scopes	Kela Kanta services	5.4.2019
1.3	Updated using of state-parameter to token endpoint.	Kela Kanta services	24.9.2019
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1.6	Added optional language parameter to authorization request.	Kela Kanta serivices	12.11.2021
1.7	Added link to new Kanta PHR Sandbox Management Service.	Kela Kanta services	23.2.2023
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1.9	Added chapter 1.1	Kela Kanta Services	12.4.2023
2.0	Error corrections	Kela Kanta Services	<u>10.5.2023</u>

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### 1 Introduction

This document describes OAuth 2.0 profile for My Kanta Personal Health Record (Finnish Kanta PHR) sandbox environment with authorization. <u>You can find more information about</u> <u>Finnish Kanta PHR sandbox environments from kanta.fi-pages</u>.

This profile will evolve during the project and therefore isn't same as the profile that will be used in the customer test or production environments of Kanta PHR.

All of the endpoints are protected by TLS 1.2. Client certificate isn't required in the sandbox environment.

The sandbox environment is open environment for testing and development. The storage of any data in the sandbox is not guaranteed and data stored there may be lost. As the environment is open and public use of any official identifiers is forbidden. To identify your test person use a test-SSN. The Finnish SSN system works in a way that the individual identifiers in the range of 900-999 are reserved for unofficial testing purposes.

You must not use real social security numbers or names in this test environment!

#### 1.1 Kanta PHR Sandbox Management Service

Before authorization and token requests, the user must create a test client in Kanta PHR Sandbox Management Service. <u>You can log in into the Finnish PHR Sandbox Management</u> <u>Service using this link.</u> All of the clients using sandbox environment are authenticated with http basic authentication.

#### 1.2 Client registration

The process of using the sandbox environment typically starts with client registration. During registration, the user provides essential information about the client, including its name, redirect URI, and necessary scopes. The user also selects the desired authentication method for the client. Based on the user's choices, the system generates the information necessary for authorization and token requests.

Once the registration process is complete, the client must use the selected authentication method for authorization and token requests. If the client wishes to switch to a different

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authentication method, the user must update the client settings from the user interface to ensure that the correct method is used.

It's worth noting that the authorization request should only include scopes that have been registered for the client.

### 2 Authorization flow

The Oauth flow to be used in the sandbox is the Authorization code flow. In the flow first step is request authorization of the user. The environment has a simple demo login page and then with the given code access token requests can be made.

#### 2.1 Authorization code flow



Figure 1 PHR Sandbox Authorization flow

The authorization endpoint is used when the client needs authorization from the user to access resources. This may be the first time the client is used or if the client has not been

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granted a scope that it needs to access a resource. First the client requests and receives a short-lived authorization code which will be then traded for a set of tokens at the token endpoint. Before issuing the code, the authorization server authenticates the user and requests the user to grant access to their PHR account.

### 3 Authorization server endpoints

#### 3.1 Authorization endpoint

The authorization endpoint is called when the client needs authorization from the user to access resources. This may be the first time the client is used or if the client hasn't been granted a scope that it needs to access a resource.

The endpoint is called over TLS at the URL: https://fhirsandbox2-auth.kanta.fi/phr-authserver-sandbox/authorize.

The GET parameters for clients following the authorization code flow are:

Parameter	Value	Required
response_type	Constant: "code"	required
client id	The id client application has been given at registration, for example "Client123"	required
scope	The scopes the client wants to be granted. Scopes are defined in section 4.	required
redirect_uri	The url registered for the client at the registration time	required localhost is not allowed but for example 127.0.0.1 is
state	An opaque value used by the client to maintain state between the request and callback. The	required
	authorization server includes this	

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	value when redirecting the user-	
	agent back to the client. The	
	parameter MUST be used for	
	preventing cross-site request	
	forgery or session fixation	
	attacks.	
lg	optional	The language parameter
		provided by the application
		redirects the user to identify and
		authorize.
		Accepted languages are 'fi'/ 'fi-
		Fl'/'fi-SE','sv'/'sv-SE'/'sv-Fl' or
		'en'/'en-GB'.
		If the parameter is unknown, the
		user is redirected to the English
		authorization page. If the
		parameter is missing from the
		request, the user is redirected to
		the Finnish authorization page.

The app MUST use an unpredictable value for the state parameter with at least 128 bits of entropy. The app MUST validate the value of the state parameter upon return to the redirect URL and MUST ensure that the state value is securely tied to the user's current session (e.g., by relating the state value to a session identifier issued by the app). The app SHOULD limit the grants, scope, and period of time requested to the minimum necessary.

Example call to the authorize endpoint is

https://fhirsandbox2-auth.kanta.fi/phr-authserver-

sandbox/authorize?response\_type=code&client\_id=982585da-08db-48ea-b535-

d1ea6da2a5cf&state=state\_83ae3469-8bd4-42ac-ba25-

8507ed88dd5f&scope=patient/Observation.write+patient/Observation.read&redirect\_uri=http s://127.0.0.1&lg=fi

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#### Login with social security number

The social security numbers you use in the service should follow the format of the Finnish social security number and should be of the 900-series.

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In the production version, this page has been replaced by the identification of the Suomi.fi service.

Social security number



Figure 2 PHR Sandbox Authorization UI Login page

In the sandbox environment user authentication is replaced by mock service that asks user's test social security number (SSN). The 900-series SSN's are meant for test use, and they meet the requirements for the format of the SSN. <u>Read more about SSN (dvv.fi). It is strictly</u> forbidden to use other than the 900-series SSN's in the PHR Sandbox Authorization service. It is possible to create a test SNN using the tools intended for it, for example on the Lintukoto.net website. <u>Read more about the website (lintukoto.net)</u>. The PHR Sandbox Authorization login page is shown in figure 2.

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Figure 3 PHR Application Approval page

After logging in the application approval page will be shown. This is shown in the figure 3. The page includes information about the application and the scopes that the application is requesting.

After the user is authenticated PHR authorization server will create a pseudonym for the user which is used as patient id in PHR. After successful authorization user's browser will be redirected to the preregistered redirect URI with authorization code as a get parameter, for example:

https://app/after-auth?code=z24EGT&state=b5de575e-ac1b-4c00-b1f1-844d1b9bdb03

When the authorization is cancelled, the user will be redirected to the address specified in the client registration. The URI of this address will include an error message and a description. For example, if the authorization was denied by the user, the URI may look like this:

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https://app/after\_auth?error=access\_denied&error\_description=User%20denied%20access& state=b5de575e-ac1b-4c00-b1f1-844d1b9bdb03.

#### 3.2 Token endpoint

After the client receives an authorization code from the authorization endpoint the client presents the authorization code along with its own credentials to the authorization server's token endpoint to obtain an access token.

Another reason to call the token endpoint is that the original access token has expired. In this scenario, the client application calls the resource server with a refresh token that was obtained along with an access token.

The token endpoint is called over TLS at the URL: https://fhirsandbox2-auth.kanta.fi/phr-authserver-sandbox/token

#### Welcome to Kanta PHR Sandbox Management Service

You can create and manage your test clients here. You can also fetch and delete app permissions of your test persons.

Re	gistered clients						^
~	Client Name	Client Id		Client Secret		Header Value	
~	TestClient	afd4ec15-9786-4281-9bfa-eb695	Ō	AKk3JShHG5aPL85uVBWows5B	Ō	1.2.246.556.12001.7.13.1.99.167	Ō
$\sim$	TestClient_2.0	7c6aecb0-736c-400d-978b-5c05	Ø	eCAJdOZK7zHO1WnM342zYnój	Ō	1.2.246.556.12001.7.13.1.99.167	Ō

Figure 4 Client informations are presented in Kanta PHR Sandbox Management Service where the user can register clients for test use.

Kanta PHR Sandbox Management service utilizes two different authentication methods: basic authentication and a solution that simulates SSL authentication. Basic authentication uses client Id and client secret. A solution imitating SSL authentication uses a special header. These authentication details can be accessed through the user interface and are generated for each registered application. Figure 4 shows two registered clients and their information.

#### 3.2.1 Authetication with basic auth

Token request examples are presented in the next two chapters. For basic authorization, the HTTP header Authorization is used, which contains the client ID and client secret in a

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base64-encoded format. This information can be found in the Kanta PHR Sandbox Management Service after the user has registered the client.

#### 3.2.2 Simulating SLL authentication

Instead of relying on an SSL certificate, the sandbox environment uses a special authentication header to verify the identity of the client. This header is called PhrDemoAuth and it is mandatory for the client to include the 'Header value' provided in the user interface. It is important to note that this header is only used in the sandbox environment; in the actual production environment of PHR, a different header is used.

#### 3.2.3 Basic authorization example

POST https://fhirsandbox2-auth.kanta.fi/phr-authserver-sandbox/token HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: dGVzdF9jbGllbnQ6cXdlcnR5MTIzNDU2 grant\_type=authorization\_code& code=SJ2DII& redirect\_uri=https%3A%2F%2F127.0.0.1& state=sdgfoewew2335twes& client\_id=test\_client

#### 3.2.4 PhrDemoAuth authorization example

POST https://fhirsandbox2-auth.te.kanta.fi/phr-authserver-sandbox/token HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/x-www-form-urlencoded PhrDemoAuth: 1.2.246.556.12003.7.12.3 Host: fhirsandbox2-auth.te.kanta.fi Connection: Keep-Alive grant\_type=authorization\_code& code=1KbPP5yTjcxUrEBaPWDjYZTMYc3oDr6jJRedIKE7R4\_ORBYwIuDzTNWhmh 7Y8vMwoKYE6QUHhWEmqbvbbuJ0wFXYyMhrsoOpYK81wqCc3OS-U3blc8QwOBTWK6591coU& redirect\_uri=https://127.0.0.1& client\_id=test\_client2

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The client MUST use the HTTP "POST" method when making access token requests.

Parameter	Value	Required
Authorization	HTTP Basic Authentication. HTTP header Authorization containing client id and client secret MUST be in base64- encoded format separated by a colon, for example "Authorization Client123:ClientSecret"	required
grant_type	Fixed value: "authorization_code" if parameter "code" is used, or fixed value "refresh_token" if parameter "refresh_token" is used.	required
code	Value of code, for example "z24EGT", as obtained from the response when calling authorization endpoint. Only in use if grant_type=authorization_code.	required if grant_type=authorization_code
refresh_token	Value of refresh token as obtained from a former call to the token endpoint.	required if grant_type=refresh_token
redirect_uri	One of the registered redirect urls for the client at the registration time	required localhost is not allowed but for example 127.0.0.1 is

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Parameter	Value	Required
client_id	he id client application has been given at registration, for example "Client123"	required
http-header "Accept: application/json"		optional
state	An opaque value used by the client to maintain state between the request and callback. If state- parameter is provided with the request, PHR authorization server will return the exact value to the client.	optional

The authorization server will return a JSON structure that includes an access token or a message indicating that the authorization request has been denied. The JSON structure includes the following parameters:

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Parameter	Value
access_token	The access token issued by the authorization server
token_type	Fixed value: "Bearer"
refresh_token	Token that can be used to obtain a new access token, using the
	same or a subset of the original requested scopes. A refresh
	token is generated only if it has been requested in the
	authorization endpoint call by including the scope "offline".
expires in	Lifetime in seconds of the access token, after which the token is
. –	not accepted by the resource server
scope	Scopes that the client has been granted. Note that this can be
	different from the scopes requested by the client.
sub	Patient pseudonym which MUST be used in all search requests.
state	If the token endpoint call included a state-parameter its value will
	be returned also here. Can be used to check that the token
	endpoint response has not been changed by a hostile third party.

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#### 3.2.5 An example response in token request workflow:

#### {

"access\_token":"eyJraWQiOiJyc2ExliwiYWxnIjoiUlMyNTYifQ.eyJzdWliOil2YTliNTk4ZC0yZ mU0LTRhNWQtYjE3Yi05N2U4ZDUzOTYwZmliLCJhenAiOiJUSU1JU1NMliwiaXNzljoiaHR0 cHM6XC9cL2ZoaXJzYW5kYm94Mi1hdXRoLmthbnRhLmZpXC9waHltYXV0aHNlcnZlci1zY W5kYm94XC8iLCJleHAiOjE1MjMzNjA5MzMsImlhdCl6MTUyMzM1NzMzMywianRpljoiZGZj MmViZDltNWNmNi00ZWFjLWFjNWYtM2JiNGJIMjBlNjdjIn0.mJWRJDWdaS6\_1F\_AqCR32X vnRrXYrVwvfcHtxsCVxsHbbCXtBL4pfUq5uhdvTGifjHMKNPeJUdTWYZoYXYdeF7GVJd37w zW2kjcnKuN5ljo9Rvkxf\_ofaJ8-

JrPka1mznUEwGWx4kM3Un\_o2LjAEQH3B49c6OXtL8HLK9v3wPnY",

"token\_type":"Bearer",

"refresh\_token":"eyJhbGciOiJub25lln0.eyJqdGkiOil1ODQ4Nzc5Ny05YjZiLTRjMGEtOWIwZS 1jNzA2YTE0NTFlODQifQ.",

"expires\_in":3599,

"scope":"patient/Patient.read patient/QuestionnaireResponse.read offline\_access

patient/Observation.read patient/Observation.write",

"sub":"6a9b598d-2fe4-4a5d-b17b-97e8d53960fb",

"state": "sdgfoewew2335twes"

#### }

#### 4 Supported scopes in the authenticating sandbox

Scopes supported by Kanta PHR can be divided into the scopes that grant access to specific FHIR resources stored on the resource server and scopes that allow applications to obtain other information and keep the authorization active.

#### 4.1 User scopes for data access

Scopes than can be granted to access resources on the resource server are defined similarly to SMART on FHIR scopes. Requesting empty scope list grants all scopes registered to the client. Scopes are in form of patient/:resourceType.(read|write)

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Scope	Contents
patient/Observation.read	Reading patient observations, like heart rate
patient/Observation.write	Creating, updating and deleting observation
patient/Patient.read	Reading the patient-resource
patient/MedicationStatement.write	Creating, updating and deleting the medication
	statement-resource
natient/MedicationStatement read	Reading the medication statement-resource
patient/medicationolatement.read	Reading the medication statement-resource
patient/MedicationAdministration.read	Reading the medication administration-resource
patient/MedicationAdministration.write	Creating, updating and deleting medication
	administration
patient/QuestionnaireResponse.read	Reading the questionnaire response-resource
patient/QuestionnaireResponse.write	Creating, updating and deleting questionnaire
	response
patient/CarePlan.read	Reading the care plan-resource
patient/CarePlan.write	Creating, updating and deleting care plan

Kommentoinut [AA2]: write puuttuu

To read a resource you need to have the patient/Resource.read scope. For writing, updating and deleting the resource patient/Resource.write scope is needed. A scope is needed only for the main resource type, containing resources that are inline in the resource to be read or written follow the scope of the resource that they are part of. Referenced resources are subject to the scope of their respective type.

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All requested scopes that can be authorized by the user needs to be chosen for the client application when the client application is registered. You can request authorization only for scopes chosen for the client application. All scopes that are included in the access token need to be authorized by the user – the user may choose only to accept all scopes or not accept at all.

#### 4.2 Non user-specific scopes for administration

Scope	Contents
ConformanceStatement.read	Reading the conformance statement
StructureDefinition.read	Reading different structure definitions
StructureDefinition.write	Creating, updating and deleting structure definitions
ValueSet.read	Reading different value sets
ValueSet.write	Creating, updating and deleting different value sets
CodeSystem.read	Reading different code systems
CodeSystem.write	Creating, updating and deleting different code systems
Questionnaire.read	Reading the questionnaire-resource
Questionnaire.write	Creating, updating and deleting questionnaire

These scopes are intended for internal PHR maintenance use only.

### 5 Removing authorization

You can log in into the Finnish PHR Sandbox Management Service using this link.

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The login requires using username and password. A new user must register on the service and after that the user can log in. The login page is shown in figure 4.

Figure 5 PHR Sandbox Management Service Login page

In the PHR Sandbox Management Service users can create new test clients, edit previously created test clients or manage application permissions of a the test user. The welcome page shows registered clients for the user. This can be seen in figure 5.

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Fetch and delete app permissions of a test person			^
Give Social security number of the test person who opo793-961E	o's app permissions you want to fetch and de	elete.	
Application	Permissions/scopes	Date	
7c6aecb0-736c-400d-978b-5c0514877b9b	patient/CarePlan.write     patient/CarePlan.read     patient/MedicationStatement.read	2023-02-22T15:16:08+0200	
afd4ec15-9786-4281-9bfa-eb6959984a1f	<ul><li>patient/Observation.read</li><li>patient/Observation.write</li></ul>	2023-02-22T14:59:03+0200	

#### Figure 6 PHR Sandbox Management Service app permissions page

In the Fetch and delete app permissions of a test persons section the user can manage permits for a test user. After the authorizations have been fetched, the user can remove authorizations one by one. This can be seen in figure 7.

### 6 Request to FHIR server

With a valid access token, the app can access PHR data by issuing a FHIR API call to the FHIR endpoint on the resource server. The request includes an **Authorization** header that presents the **access\_token** as a "Bearer" token. If the client is web-client the request to FHIR-server is sent as shown below:

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#### 6.1 Example with basic authentication

POST https://fhirsandbox2.kanta.fi/phr-resourceserver/baseStu3/Observation HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Authorization: Bearer eyJraWQiOiJyc2ExliwiYWxnljoiUlMyNTYifQ.eyJzdWliOil2YTliNTk4ZC0yZmU0LTRh NWQtYjE3Yi05N2U4ZDUzOTYwZmliLCJhenAiOiJUSU1JU1NMliwiaXNzljoiaHR0cHM6XC9cL2ZoaXJzYW5kYm94Mi1hdXRoLmthbnRhLmZpXC9waHItYXV0aHNlcnZl ci1zYW5kYm94XC8iLCJIeHAiOjE1MjMzNjA5MzMsImIhdCl6MTUyMzM1NzMzMywian RpI joi ZGZ jMmV iZDI tNWNmN i00 ZWF jLWF jNWY tM2 JiNG JIM jBIN jd jIn0.mJWR JDWdaS6\_1F\_AqCR32XvnRrXYrVwvfcHtxsCVxsHbbCXtBL4pfUq5uhdvTGifjHMKNPe JUdTWYZoYXYdeF7GVJd37wzW2kjcnKuN5Ijo9Rvkxf\_ofaJ8-JrPka1mznUEwGWx4kM3Un\_o2LjAEQH3B49c6OXtL8HLK9v3wPnY Content-Length: 1494 Host: fhirsandbox2.kanta.fi Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) { "resourceType":"Observation", "meta":{ "profile":[ http://phr.kanta.fi/StructureDefinition/fiphr-bodyheight-stu3 ], "language": "fi",

}

With the complete resource in the body.

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#### 6.2 Example with PhrDemoAuth authentication:

POST <https://fhirsandbox2.te.kanta.fi/phr-resourceserver/baseStu3/Observation HTTP/1.1Accept-Encoding>: gzip,deflate Content-Type: application/json

#### Authorization: Bearer

eyJraWQiOiJyc2ExliwiYWxnIjoiUlMyNTYifQ.eyJzdWliOilyYzk3N2ZIYS0zNWQ4LTR jNDQtOWU2Yy0yZDU3NmNiMzA3YjQiLCJhdWQiOiJUSU1JU1NMliwibmJmljoxNjg xMjE3OTk3LCJzY29wZSI6WyJwYXRpZW50L1F1ZXN0aW9ubmFpcmVSZXNwb25 zZS5yZWFkliwib3Blbmlkliwib2ZmbGluZV9hY2NIc3MiLCJwYXRpZW50L09ic2Vydm F0aW9uLnJIYWQiLCJwYXRpZW50L09ic2VydmF0aW9uLndyaXRIII0sImlzcyI6Imh0 dHBzOi8vZmhpcnNhbmRib3gyLWF1dGgudGUua2FudGEuZmkvcGhyLWF1dGhzZ XJ2ZXItc2FuZGJveC8iLCJIeHAiOjE2ODEyMjE1OTcsImlhdCl6MTY4MTIxNzk5Nywi anRpIjoiOGIzYzgzMGMtZGFmZS00Mml1LTk1ZDItMjJIYTRhNjQ0MDRIIn0.YYI0dG AQoSTAbFVb4GNiXI3uw2Or2TmD3qRym9Mur0Z605ArFmWovkTbSe8YWw1BMB PQvLFh27PPBNpmABwzPUStP4AZHj4vWZVoiORRvk\_iFow7qygwKKGU5oOxLbnBIM\_\_ztewYtPByTcQgvkIJzmq7UciFh4F1ZrkmERNCezP8JtjD cpuGyiszSFwWR0ebUoZgpwiP2mBLDE12HTRw49Qn8qWh3WgxueBKl2hh\_kTbgAdsk5ece8EWs4yjZngZTx7wEtOSOfqoV2WMtIyTynaws5YY2dWUOqjUEWNF3A4a23tl83l6niqhcV0bzc6sDtFxMYEJ29bkIYpJw

PhrDemoAuth: 1.2.246.556.12003.7.12.3 Content-Length: 1496 Host: fhirsandbox2.te.kanta.fi Connection: Keep-Alive User-Agent: Apache-Http Client/4.1.1 (java 1.5)

{
 "resourceType":"Observation",
 "meta":{
 "profile":[
 <u>http://phr.kanta.fi/StructureDefinition/fiphr-bodyheight-stu3</u>
],
 "language": "fi",

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... }

With the complete resource in the body.