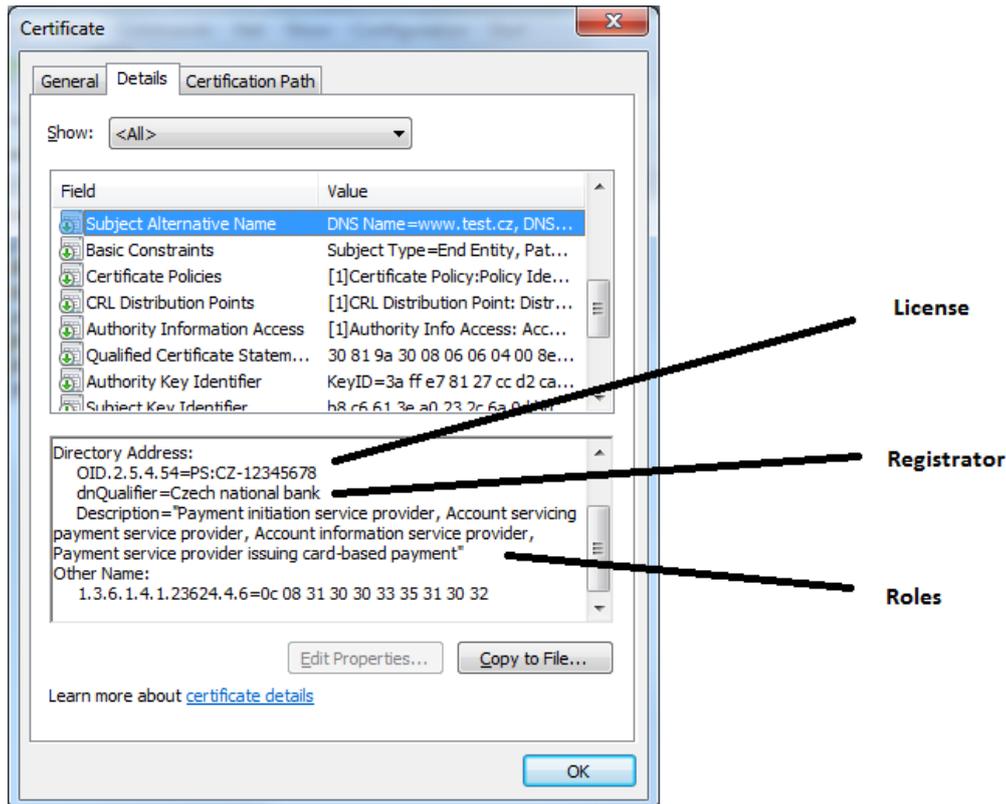# Equa bank

How to call PSD2 API

Prerequisites

- Qualified certificate for PSD2
- Ability to make OAuth2 client credentials grant and authorization code

Registering into developer portal

Use this TPPPublicRegistration API to register your company as a PSD2 Third Party Provider. Registration will result to access to developer portal under user that is allowed to call API's.

Usage:

```
curl -k -X POST --cert EquaTest.pem:aaaa -H "accept: application/json" -H "Content-Type: application/json" "https://api.equabank.cz:32000/tppregistration/1.1.5/tpps" -d @tppRegister.json
```

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where tppRegister.json contains your data

```
{
  "tppId": "TRO011",
  "tppName": "TPP name ",
  "password": "xxxxx",
  "email": "email@email.cz",
  "address": "Po přístřeším 87",
  "phoneNumber": "+420 123456787"
}
```

tppId is userName to the developer portal. It cannot contains spaces and do not use underscore and diacritics.

password is password to the identity server with policy pattern: ^((?=.*\d)(?=.*[a-z])(?=.*[A-Z])(?=.*[!@#$%&*])).{0,100}$

email is required for confirmation email and notification purposes. You will receive email with confirmation link after successful registration.

address and **phone** number is highly recommended. The administrators of Equabank will try to contact you for security reasons. Wrong information will be reported.

How to convert cert.pfx to cert.pem
```
openssl.exe pkcs12 -in EquaTest.pfx -out EquaTest.pem -clcerts
```

Errors

http error	Error message	Description
403	User xxxx already exists in the system. Please use a different username.	Chosen tppId has been already registered. Try a different one.
400	The certificate is missing valid metadata	The certificate does not meet the expectations (see the prerequisites).
400	Some of following parameters is missing in JSON request: tppId or password or tppName or email or phoneNumber	The JSON in the body is not valid or complete.
400	The name should contain character '_'	
403	Unable to process registration. The TPP has been already registered under a different tppId: xxx	A different user with provided certificate is already registered.
200	User has been already registered. No changes	

	has been done.	
403	The TPP has been already registered	
500	Unable to register user - internal error - contact support please	Internal error.
500	Unable to set roles	Internal error.

Creating the application

Open page https://developers.equa.cz and sign in to the developer portal. Please note that **sign-up** creates user that is **not able to call API!**

Go to the Applications and create your application. (You can use the default application, however the application name will be displayed on consent page to the end users).

Pay attention that application name cannot contain whitespaces!

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Per Token Quota field allows you to assign an API request quota per access token. Allocated quota will be shared among all the subscribed APIs of the application. You can leave the unlimited value.

Description is up to you, but it will not be displayed to the end users.

Entry CallbackURL for OAuth2 implicit and authorization grant code purposes. Please that Password grant is useless, client credentials can be used in certain situations only (e.g payment initiate).

Then push Generate keys button to obtain clientId (consumerKey) and clientSecret (consumerSecret).

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The usage of clientId and clientSecret generated on sandbox tab means that mock of backends and authentication server is used.

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API Subscription

The application has to be subscribed to API in order to be API callable with tokens that has been created by using clientId and clientSecret.

Wait for a while

The current situation required administrator assistance to set up authentication to your profile.