

Production API Portal manual

Open and Partner API services

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Version 1



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WORKING WITH API SERVICE

Generally, the user tests the selected service using the trial version (SANDBOX) API as the first step. For more information see Sandbox API manual.

If everything works according to the user's wishes, it is possible to proceed to the production version of the API service. The production version of the API service is connected to the KB internal systems and returns real data.

In some cases (this is usually with the partner API), it is necessary to conclude a contract with the bank in order to be able to use the service (terms and conditions are defined in the API service detail).

To access the service, the user needs to:

- 1. Select the service of their choice in the list of services, see <u>Overview of API Portal</u> <u>Services</u>
- 2. Create an Account at the API Portal, see User Registration
- 3. Add application (which will make service calls), see Application Management



4. Generate the key to the proclamation of the service, see Generating API key

OVERVIEW OF API SERVICES

Overview of services can be displayed at the page <u>https://www.kb.cz/cs/api</u>. This is the public part with description of services and information about the current state of services:

- LIVE complete service, ready to use (this is the production version of the service)
- SANDBOX ready for a trial
- IDEA collecting ideas for a new service, the service does not yet exist or is in preparation)



After selecting the service of choice, a detailed description with further information will appear and a link to login / registration to the API Portal.



USER REGISTRATION

To access the service, a registration is required. Registration may be initiated from the detailed description of the selected service at the overview of API services (<u>https://www.kb.cz/cs/api</u>; see CREATE ACCOUNT).



After selecting registration, the user will be redirected to the developer section of the API Portal with a detailed description of the API and other features.

REGISTRATION - USER INFORMATION

To log into the developer section of the API Portal, email and password (including password confirmation) need to be entered and a captcha confirmed.

Registration	E-mail *				
Open Services	pavel@vzorek.com	I'm not a robot			
	Password *	Polany - Sarra			
	***********	Touto registrací beru na vědomí, že			
	Retype Password *	bude Komerčni banka a.s. uchovávat můj email, heslo a IP adresu za účele poskytnutí služby, informování o jejk			
	*****	změnách, vyhodnocení jejího využití a zaslání obchodních sdělení.			
	Validation Error box				
	REGISTER CANCEL				

After confirmation, a user profile will be created and the user will be redirected to an overview of the production API.



MAIN MENU

DEVELOPERS	KB API OVERVIEW	OPEN SERVICES	PSD2 SERVICES	PARTNER SERVICES
BUDOUCN(JSTE			REGISTRATION	

The main menu contains:

- DEVELOPERS API list display
- KB API OVERVIEW API services overview display https://www.kb.cz/cs/api
- OPEN SERVICES overview of public API services (user registration at the API Portal required only)
- PSD2 SERVICES overview of PSD2 API services
- PARTNER SERVICES overview of partner API services (user registration at the API Portal and contract with KB required)
- APIS overview of API (depending on the selected context open / PSD2 / partner services)
- APPLICATIONS application management, see <u>Application Management (APPLICATION)</u>
- Information on the logged-in user user login (email), password change option, logout from API Portal option

Switching between sections requires login

Switching section (e.g. switching from OPEN SERVICES section to PARTNER SERVICES section) requires re-login (i.e. each section holds its own login data).

APPLICATION MANAGEMENT

This concerns third party applications that consume the exposed API (could be a web application, mobile application, etc.).

Application Management enables:

- Add / create a new application (ADD APPLICATION); see Creating a New Application
- Display application detail (VIEW); see Application Detail
- Change the name and description of the application (EDIT); see <u>Changing Applications</u>
- Remove application (DELETE); see <u>Removing Applications</u>
- Generating an API Key, see <u>Generating API Key</u>
- Connecting an application to API (SUBSCRIBE), see <u>Application Connection to API</u>

Q_ Filter by			A	DD APPLICA	TION
Name It	Workflow Status 41	Subscriptions 11	Actions		
DeafaultApplication	ACTIVE	1	VIEW	EDIT	DELETE
LoremIpsumApplication	INACTIVE	1	VIEW	EDIT	DELETE



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CREATING A NEW APPLICATION

Requirements to the creation of a new application:

- Name application name (required parameter)
- Description description of the application (optional parameter)

E SART AL OF A PAILY ACTIVITY			
Delagiographic			
ADD APPLICATION	Í	CANCEL	1

APPLICATION DETAILS

The application detail contains:

- 1. DETAILS information about the application:
 - a. Status application status (always APPROVED)
 - b. Per Token Quota this parameter defines the restrictions on API calls (how many times in a defined period can API be called)
 - c. Description any desired description of the application
- 2. PRODUCTION KEYS generating production keys (relevant to the production API, or to the API Portal developer section), see <u>Production Key</u>
- 3. SUBSCRIPTION overview of which APIs a particular application is connected to, see Overview of Application Links to API

DETAILS	PRODUCTI	ON KEYS	SUBSCRIPTIONS	EDIT
Status		APPROV	/ED	
Per Toke	en Quota	Unlimit This feat token. T the appl	ed Allows unlimited requests ture allows you to assign an Af he allocated quota is shared a ication.	ગ request quota per access mong all the subscribed APIs of
Descript	tion	Not Give	ะท	



CHANGE OF APPLICATION

As part of change of application, the name and description of the application can be changed. Application name is unique.

DefaultAplication	Zde může být stručný popis aplikace
Validation Error box	
UPDATE APPLICATION	CANCEL

REMOVING APPLICATION

After selecting DELETE, the removal of the application needs to be confirmed. This operation removes the application links to the API.

\times	CONFIRM DELETE		×
	This application is subscribed to 1 APIs. Are you sure you wan This will cancel all the existing subscriptions and keys associat YES	t to remove the application "DefaultApplication"? led with the application.	

GENERATING AN API KEY

The production key is used to call the production version of the service / API. This key can call all production APIs linked to the particular application (see <u>Application Connection to API</u>). Note: In case of partner APIs, the call to the production version of API may be conditioned by concluding a contract with KB (without a contract, the API cannot be called).

Only one production key may be generated for a particular application.

The generation itself is initiated by the **GENERATE KEYS** option).



			DefaultApplication	
DETAILS	PRODUCTION KEYS	SUBSCRIPTIONS		EDIT
(i	No Keys Fou No keys are generated	und I for this type in this a	pplication.	
GEN	ERATE KEYS			

RE-GENERATING AN API KEY

If an existing API key needs to be re-generated, it is possible to select **REGENERATE**.

Generate a Test Access Token Access Token		
	REGENERATE	СОРҮ
Above token has a unlimited validity period.		

APPLICATION CONNECTION TO API

Linking the application with the API forms a condition for calling the API. The application can be interconnect in the detail of the selected API. In the *Applications* item, it is possible to select the desired application and create a link by selecting the SUBSCRIBE option.

API PORTAL - OPEN SERVICES			
	Touchpo	int-Sandbox - v1	
Version	v1	Applications	
Updated	15/Apr/2019 12:44:25 PM UTC	DEFAULTAPPLICATION	
Status	PUBLISHED	SUBSCRIBE	

OVERVIEW OF APPLICATION CONNECTION TO API

The overview of to which API the selected application is connected can be viewed in detail of the selected application (option SUBSCRIPTIONS).



DETAILS PRODUCTION KEYS SUBSCRIPTIONS		EDIT
Q. Filter by		
API Name Ik	Status 11	Actions I1
	UNBLOCKED	UNSUBSCRIBE
Show 10 entries Showing 1 to 1 of 1 entries		1

API SERVICES MANAGEMENT

The list of services is displayed after logging into the API Portal.

The developer section of the API Portal does not display any services in one overview but divided into sections (OPEN SERVICES, SERVICES PARTNER, PSD2 SERVICES). It is possible to switch between the sections but the re-login (or registration) to the particular section is necessary (each section can hold their own login).

For each application, it is possible:

- to display detail of service of similar description
- to display description of the API (in the Open API 3.0.0 format)
- to display additional documentation to the particular service





List of APIs can be viewed by selecting APIS. After selecting the desired API, its detail is shown, see <u>API Detail</u>. Each service (each API) has a separate "tile" (application).



API DETAIL

API Detail provides information about the API service - API service version, date of API service addition, API service status (always PUBLISHED), url of endpoints (OVERVIEW section), API description in the Open API 3.0.0 format (section API CONSOLE), documentation to API (if needed, all the necessary information is given in the description of the API - API CONSOLE section).

DEVELOPERS BUSINESS KB API OVERVIEW OPEN SERVICES PSD2 SERVICES PARTNER SERVICES				
BUDOUCNOST KB APPLICATION ADMIN@KB.CZ V				
API portal – Open services MORTAGE CALCULATOR V1				
Version V1 Application SUBSCRIBE DeafultApplication				
Updated 07/Úno/2019 14:45:31 odp. CET Description Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna				
Status PUBLISHED aliquam erat volutpat. Ut wisi enim ad minim veniam, quis				
OVERVIEW API CONSOLE DOCUMENTATION				
Production and Sandboxes Endpoints Production and Sandbox URLs:				
http://10.0.0.38:8233/calculator/v1				
http://10.0.38:8244/calculator/v1				
OPEN SERVICES PSD2 SERVICES PARTNER SERVICES CONTACT				
Go to Open Services Homepage Go to PSD2 Services Homepage Go to Partner Services Homepage api@kb.cz Login Login Login kb api overview Register Register Register				



API DESCRIPTION

This section contains the possibility of calling API and the description of API services itself.

VERVIEW	API CONSOLE DOCUMENTATION		
Try	6 🔹		
Using			
0	PRODUCTION · Key		
	• No access token found The selected application does not have an access token for the selected environment. Go to the application page and generate keys.		
Set Request Header			
		Swagger (/swagger.jsor	
branch			
GET	/branches/nearest Find data by GPS.		
GET /branches Find data by address.			
atm			
GET /atms/nearest Find data by GPS.			
GET /atms Find data by address.			
health			
GET	/is-alive Health check service for polling availability status.		

SAVE SWAGGER (IN JSON FORMAT)

Swagger is possible to save by link Swagger (/swagger.json).

Set Request Header		
x-api-key : Bearer	17365595-1242-3361-bbc1-6316935a34f8	
		Swagger (/swagger.json)



CALLING THE SERVICE (API)

Under the *Try* item, it is possible to select an application which has been linked to the appropriate API, under the *using* item, it is possible to choose the API key.

OVERVIEW	API CONSOLE DOCUMENTATION
Try	б 🗸
Using	SANDBOX - Key
	INO access token found The selected application does not have an access token for the selected environment. Go to the application page and generate keys.

The call on API itself is triggered by the option TRY IT OUT (for entering input values).

branch	
GET /branches/nearest Find data by GPS.	
Returns Branches nearest from GPS location.	

And the EXECUTE option (after initiation).

Parameters		CANCEL
Name	Description	
latitude * ^{required} number (query)	Latitude component of location.	
longitude * ^{required} number (query)	Longitude component of location.	
EXECUTE		

If the key to call the API is not generated, see chapter Generating API key .



DESCRIPTION OF API ATTRIBUTES

The actual description of the attributes is designed in the format of Open API 3.0.0, each attribute is given a detailed description and example of performance.

Parameters	TRY IT OUT
Name	Description
<pre>x-correlation-id * required string (header)</pre>	Request correlation ID (GUID) is the generated unique identifier of the initial request, which stays the same through all the systems/application involved example: '324d4777-b59e-4ad3-bb16-527856460113'
latitude * ^{required} number (query)	Latitude component of location.
longitude * ^{required} number (query)	Longitude component of location.
isOpen boolean (query)	Branch is open.
isAccessible boolean (query)	Is the ATM wheelchair accessible.
<pre>page * required integer (query)</pre>	Current branches page. Page starts with 0 (first page).
SİZE integer (query)	Number of branches per page. Default value is 30 branches per page.

Swagger saved by link (see Save swagger (in JSON format)) contains header for sending API key.

Header is in securitySchemes:

securitySchemes: default: type: apiKey in: header name: **x-api-key** description: Access Token that is generated in Api Manager



For attributes in response, examples of performance and fulfilment of attributes (response code 200 - option *example Value*) may be displayed.

Responses					
Code	Description				Links
200	Successful operation.				No links
	application/json	~			
	Example Value Model				
	<pre>{ "content": [mull], "totalPages": 0, "totalElements": 0, "pageNumber": 0, "pageNumber": 0, "numberOfElements": 0, "first": true, "last": true, "last": true, "ast": true, } }</pre>				
	Name	Description		Туре	
	X-Total-Count	Total count of branches.		integer	
204	No data found.				No links
400	The parent element contains a	collection of all error sta	tes.		No links
401	Authentication information is	missing or invalid			No links
	Headers:				
	Name	D	Description	Туре	
	MMM_Authenticate			string	
500	Internal server error.				No links



The attribute description itself may be displayed by switching to the Model option.

Exan	nple Value Model		
Pa	age 🗸 {		
	content	✓ [✓ {	
		oneOf ->	Atm > {}
			AtmNear > {}
			Branch > {}
			BranchNear > {}
		}]	
	totalPages	integer Total number of names	
		focal flumber of pages.	
	totalElements	integer Total number of found elem	ante
		Total Humber of Tound Elenk	
	pageNumber	integer Δctual page number. Number	of the first maps is 0.
		· ·	or the range page is of
	pageSize	integer Size of the page.	
	number Of Florents	integan	
	numberorezements	Number of elements on the	current page.
	first	hoolean	
	12130	Is the first page.	
	last	boolean	
		Is the first page.	
	empty	boolean	
		Is actual page empty.	
3			
1			