BPDM - Get/Post Company Data

Interface / API / Service Summary

BPDM Data Pool provides an API (Reference Data API) to lookup business partner data via REST endpoint "Lookup Business Partner". This endpoint provides access to several external data sources (trade registers, open data repositories, etc.)

API authentication is managed by API keys which is processed via HTTP header. This key manages also authorization, e.g., access to the CX data pool (instead of other community data).

For the registration process we are using the BPDM data call to pull the company basic data.

2 Options are available for the data pull

- Via Company Name (Level 2 - not yet implemented)
- Via BPN Number

Architecture Overview

To integrate the API into CX onboarding process, portal team just have to call the lookup REST endpoint and transform the response into a pick list for the portal user.
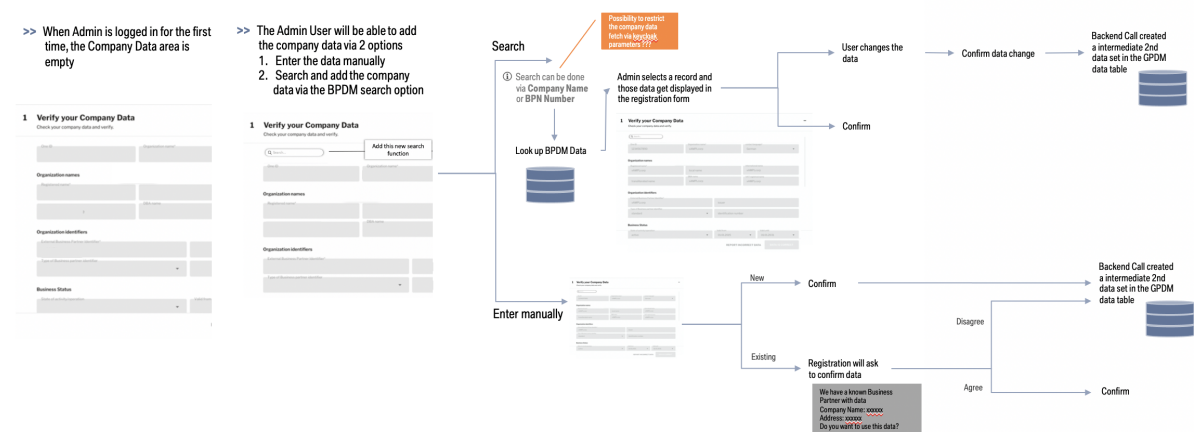
API contact: BPDM Team (Developer: Nico)

Description of the functional interface (WHAT)

Retrieving company data from the CX mirror.

Description of the physical interfaces (HOW)

COMPANY DATA VERIFICATION
PROCESS FLOW

Swagger: https://catenax-bpdm-dev.germanywestcentral.cloudapp.azure.com/api/swagger-ui/index.html

Service Call via BPN

GET `/api/catena/business-partner/{idValue}` Get business partner by identifier

```
idValue: {BPN-Number}
idType: BPN
```

Service Call via Company Name

Change and Further Development of the Interface

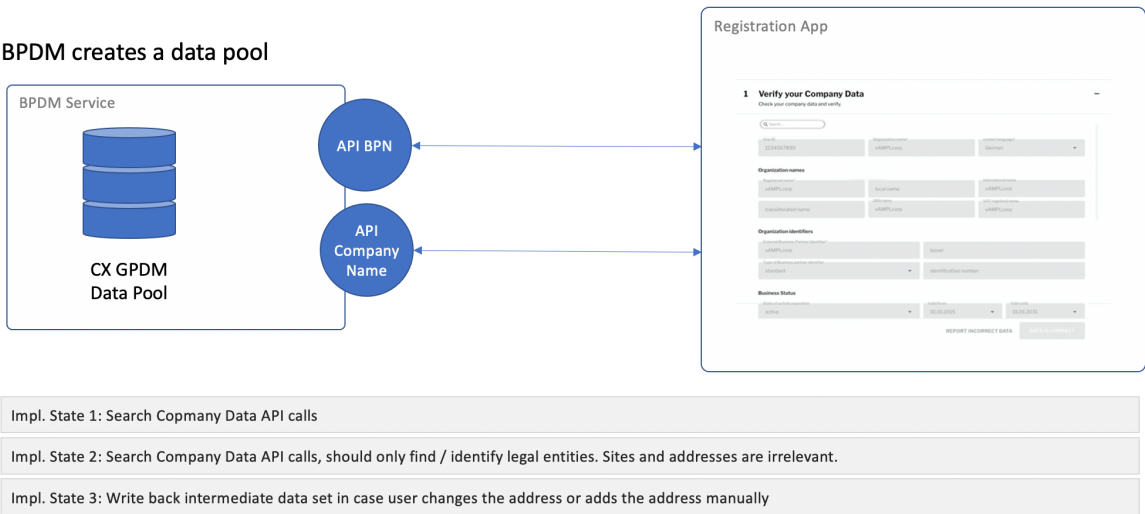08/2022: Add data attribute for company to the portal db

09/2022: Test on the portal shared partner db for the golden record clean up process with data from the registration process

Implementation Levels

<Here you can list your main open issues in order to inform your interfaces partners. Alternatively insert link to your impediment backlog or defect list. >

BPDM / Portal Connection

BPDM creates a data pool

Impl. State 1: Search Copmany Data API calls
Impl. State 2: Search Company Data API calls, should only find / identify legal entities. Sites and addresses are irrelevant.
Impl. State 3: Write back intermediate data set in case user changes the address or adds the address manually

Data Mapping for Company Data

Data Field Name Portal	Data Field on CX Data Pool	Example Data Value

BPN	`"bpn":`
	
	`(first response line)`
		BPNL0MVP000000Q7

Organization Name	`"names": [ { "value":`	German Car Factory
Organization names		
Registered Name	`"names": [ { "value":`	German Car Factory
International Name	`"names": [ { "value":`	German Car Factory
Address information		
Street & House Number	`addresses` `"thoroughfares": [ { "value":`	Munich Street 4
Country	`addresses` `"country": [ { "technicalKey":`	DE
Postal code	`addresses` `"postCodes": [ { "value":`	80809

| City | addresses
"localities": [{ "value": | Munich |