



Infor OS App Designer Guide to LN Data Services

This guide will walk you through the process of creating a data service in Infor OS App Designer that will connect to the LN REST APIs.

Prerequisites

- The environment must first have the following endpoint provisioned in the ION API Gateway to access the LN REST APIs. Verify in the API Gateway that the following endpoint exists and that you can access the APIs contained within:

<input type="checkbox"/>	Endpoint	Description
<input type="checkbox"/>	[a] ▾	[a] ▾ rest
<input type="checkbox"/>	LN/lnapi	LN REST interface

- The APIs must also be activated within LN under the REST Service Management (Activation) page:

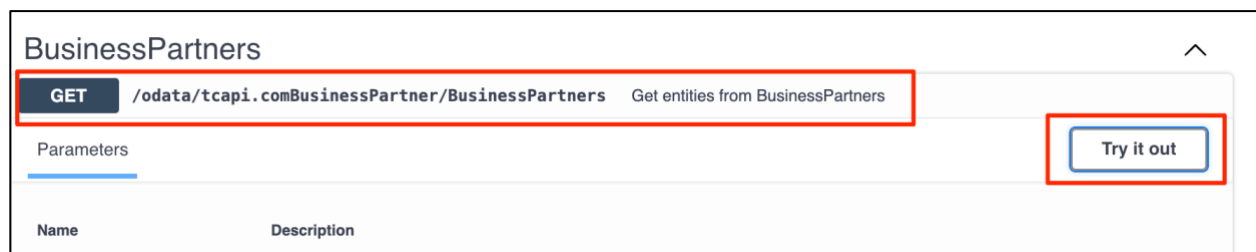
REST Service Management (Activation)	
Service	Activated
bpapi.xtmAttendance	<input type="checkbox"/>
bpapi.xtmPayroll	<input type="checkbox"/>
lcapi.ccpCalendarSetup	<input checked="" type="checkbox"/>
lcapi.comBusinessPartner	<input checked="" type="checkbox"/>
lcapi.comContact	<input checked="" type="checkbox"/>
lcapi.comReceivedBusinessPartnerData	<input type="checkbox"/>
lcapi.ammCurrencySystem	<input checked="" type="checkbox"/>

- Ensure that the user has the following security roles added in OS Portal before proceeding:
 - IAD-DataMaintainer

- IAD-Designer
- IAD-Publisher

Step 1 (Optional): Identify and Test the API in the Infor API Gateway

- From the OS Portal landing page, select API Gateway
- Select the Infor LN suite
- Locate the **LN/Inapi** endpoint, click the Documentation icon to view the available APIs
- Search for the **tcapicomBusinessPartner.odata-svc** API and click the Documentation icon
- Click on the first API which should be:
/odata/tcapi.comBusinessPartner/BusinessPartners and then select the **Try it out** button:



BusinessPartners

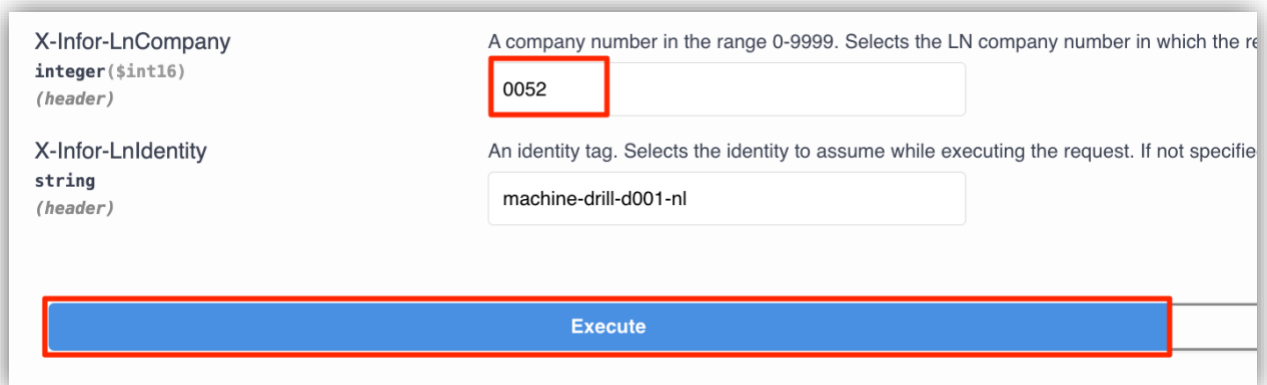
GET /odata/tcapi.comBusinessPartner/BusinessPartners Get entities from BusinessPartners

Parameters

Try it out

Name	Description
------	-------------

- Specify a company number and then select the **Execute** button:



X-Infor-LnCompany
integer(\$int16)
(header)

A company number in the range 0-9999. Selects the LN company number in which the request is executed.

0052

X-Infor-LnIdentity
string
(header)

An identity tag. Selects the identity to assume while executing the request. If not specified, the default identity is used.

machine-drill-d001-nl

Execute

- View the response body below to see what was returned from the API. A code of 200 means it was able to successfully retrieve back data:

Code

Details

200

Response body

```
{
  "@odata.context": "https://mingle-ionapi.inforcloudsuite.com:443/STARGATE_DEM/LN/Inapi/odata/tcapi.comBusinessPartner/$metadata#BusinessPartners",
  "value": [
    {
      "@odata.etag": "W/\"c43bfe6a11fedca305444a62f63ca473136ba9d8\"",
      "BusinessPartner": "BP0000001",
      "Title": null,
      "Name": "alpine",
      "SearchKey": "ALPINE",
      "ParentBusinessPartner": null,
      "BusinessPartnerStatus": "Inactive",
      "StartDate": "2010-07-05T22:00:00Z",
      "EndDate": "1970-01-01T00:00:00Z",
      "Language": "ENG",
      "Currency": "USD",
      "OneTimeBusinessPartner": "No",
    }
  ]
}
```

Step 2: Create the Data Service in Infor OS App Designer

- Now that we were able to successfully connect to the API within the Gateway, we can now create a data service that will call this same API. Click on **App Designer** from the application ribbon within OS Portal.
- Create a new data service, select **ION API** for the type. Search for **/odata/tcapi.comBusinessPartner/BusinessPartners** and select the first result:

Create Data Service - Find API

Search Suite Methods


Name	Rest Path [ⓘ]	Proxy Path [ⓘ]		
Get entities from BusinessPartners	/odata/tcapi.comBusin...	STARGATE_DEM/LN/Inapi	Details	Select
Get entity from BusinessPartners by key	/odata/tcapi.comBusin...	STARGATE_DEM/LN/Inapi	Details	Select

- Give the data service a name and click **Next**
- For this API, we need to feed in the company number as a request header parameter. Click the pencil icon or type directly in the request header field to add the following item:

Request header

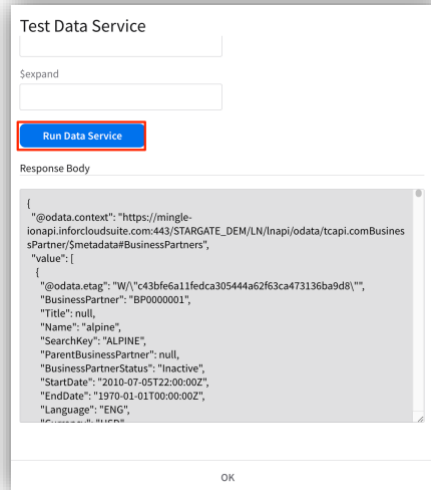
accept:application/json

X-Infor-LnCompany:0052



- Click the **Test Data Service** button at the bottom

- Optionally you can specify some filter parameter here if needed, otherwise click the **Run Data Service** button and view the response body below:



- Click **Next** to move to the Output Parameters screen
- Change the Root Element value to be **\$.value[*]** (*see note below)

**This was determined by parsing out the JSON from the Response body earlier. The JSON format will likely be different for each API, I recommend using an online tool like jsonpath.com to figure out what the root element needs to be and how to parametrize the output parameters correctly.*

- Click the **Add Parameter** button to add any parameters you would like to be included from the response body retrieved earlier. The format should be as follows:

The screenshot shows the 'Edit Data Service' interface. At the top, there is a progress bar with four steps: 'Name and description', 'Input', 'Output' (which is the active step), and 'Summary'. Below the progress bar, the 'Response Information' section shows a dropdown menu set to 'JSON' and a 'View/Edit JSON' link. The 'Root element' field contains '\$.value[*]' and the 'Object Id' field is empty. The 'Output Parameters' section has a '+ Add parameter' button. Below this is a table with two columns: 'Name' and 'Alias'. The table contains two rows: one with 'Name' as the alias and another with 'BusinessPartner' as the alias. A 'Test Data Service' button is located at the bottom of the interface.

Name	Alias
.Name	Name
.BusinessPartner	BusinessPartner

- Use the **Test Data Service** button at the bottom to ensure the output parameters piece is working as expected:

The screenshot shows the 'Test Data Service' dialog box. It contains a 'Run Data Service' button. Below the button, the 'Response Body' is displayed as a table with two columns: 'Name' and 'Description'. The table contains two rows: one with 'Name' as the alias and another with 'BusinessPartner' as the alias. An 'OK' button is located at the bottom of the dialog box.

Name	Description
Name	AHLSTTOM FILTRATION LLC
BusinessPartner	BP0000006

- Click **Next** and then click **Finish**. Your data service is now ready to be used when building widgets within Infor OS App Designer.