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:

	Endpoint		Description
☐	[A] ▼		[A] ▼ rest
☐	LN/lnapi	🗔	LN REST interface

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

REST Service Management (Activation)
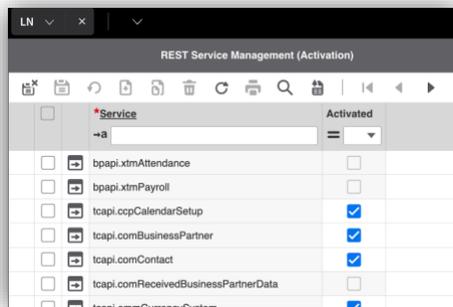
		*Service	Activated
☐		→a	= ▼
☐	→	bpapi.xtmAttendance	☐
☐	→	bpapi.xtmPayroll	☐
☐	→	tcapi.ccpCalendarSetup	☑
☐	→	tcapi.comBusinessPartner	☑
☐	→	tcapi.comContact	☑
☐	→	tcapi.comReceivedBusinessPartnerData	☐
☐	→	tcapi.emmCurrencySystem	☑

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

- o IAD-Designer
- o 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/lnapi** 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:
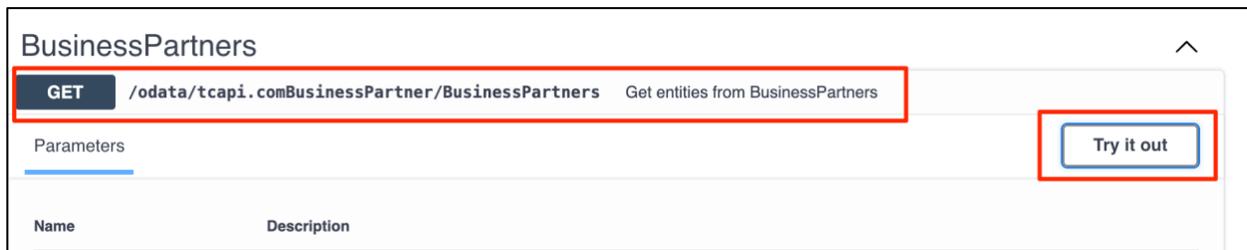
BusinessPartners

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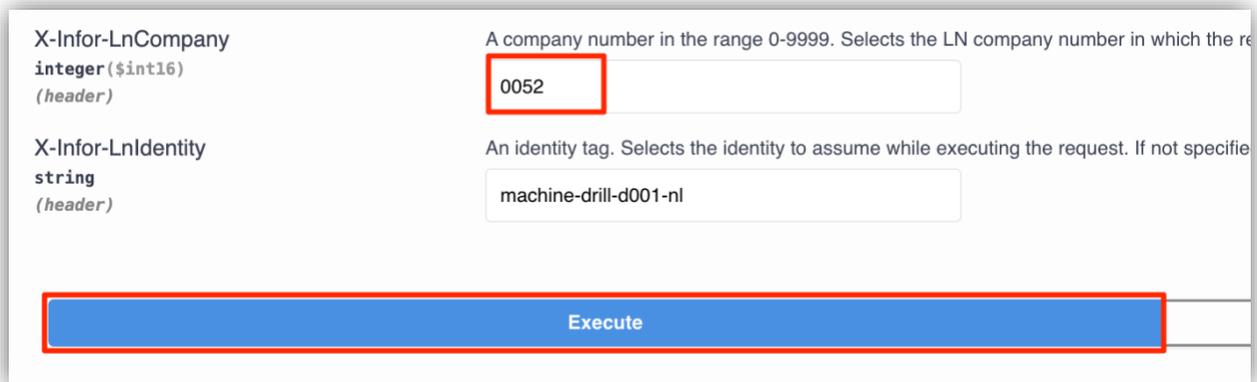
X-Infor-LnCompany
integer($int16)
(header)

A company number in the range 0-9999. Selects the LN company number in which the re

0052

X-Infor-LnIdentity
string
(header)

An identity tag. Selects the identity to assume while executing the request. If not specifie

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/lnapi/odata/tcapi.comBusiness
Partner/$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:

- 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:

- 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:
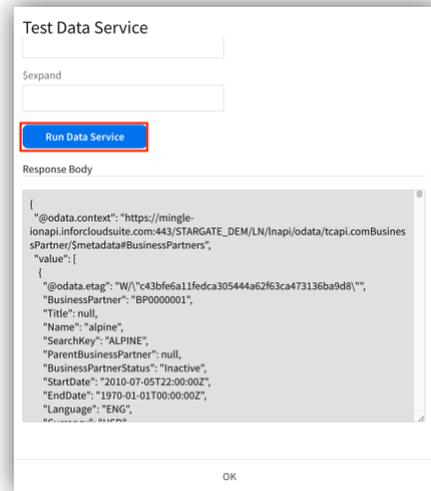
- Click **Next** to move to the Output Parameters screen

- 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:

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

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