

AI Agent Studio demo.

OIC & AI For Fusion get along very well.



Agent Team with Agent for tool of type “External Rest” to create supplier.

We will capture REST API errors and return to the user in CHAT.

OIC WORKAROUND!!!

Introduction/Goal.

AI by default when agents that use REST are not able to get the task done returns:

"Sorry, the assistant is unavailable right now. If the issue persists, contact your help desk"

This is a question seen in several Oracle AI forums.

New Comment on Inquiry About REST API Call Time Limits in Oracle AI Agent Studio by [REDACTED] in Oracle AI for Fusion Applications

[https://community.oracle.com/customerconnect/discussion/comment/\[REDACTED\]7#Comment-\[REDACTED\]](https://community.oracle.com/customerconnect/discussion/comment/[REDACTED]7#Comment-[REDACTED])

"Sorry, the assistant is unavailable right now. If the issue persists, contact your help desk"

This error usually seen if the LLM is unable to fetch the data as per the Prompts. Other reason could be the matching data not found.

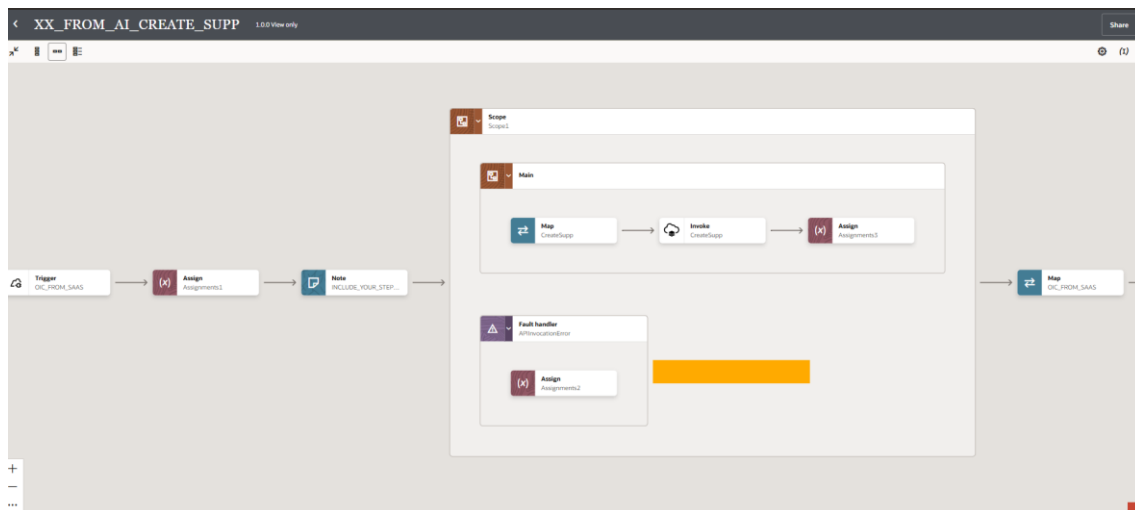
Check it out

Preparatory steps

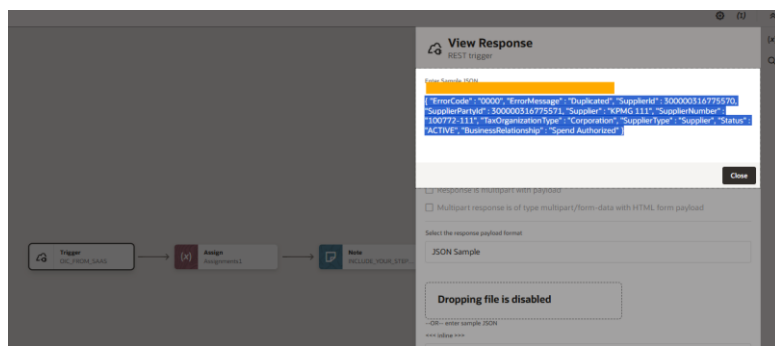
Create an integration to create suppliers.

We have added to our GitHub.

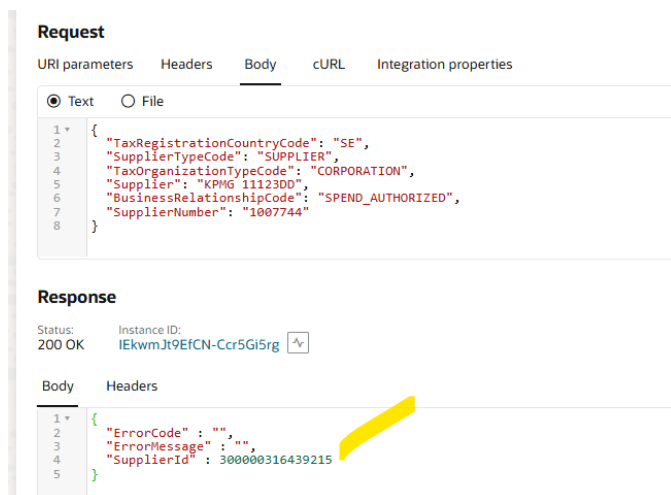
General Overview.



The trick is the response payload, which we control in case of error.



Testing ok.



Notice we get a SupplierId and "error" fields with null.

Testing Error 1. Running the same payload.

Request

URI parametersHeadersBodycURLIntegration properties

Text

File

1 {

2 "TaxRegistrationCountryCode": "SE",

3 "SupplierTypeCode": "SUPPLIER",

4 "TaxOrganizationTypeCode": "CORPORATION",

5 "Supplier": "KPMG 1112300",

6 "BusinessRelationshipCode": "SPEND_AUTHORIZED",

7 "SupplierNumber": "1007744"

8 }

Response

Status: 200 OKInstance ID: SslRWZt9fCkp230jEbeHg

BodyHeaders

1 {

2 "ErrorCode": "",

3 "ErrorMessage": "<![CDATA[Supplier Number 1007744 already exists. Review the supplier numbering setup. (POZ-2130054).A 400 Bad Request Error indicates that the target service is unable (or refuses) to process the request sent by the client (Oracle Integration Cloud), due to an issue that is perceived by the server to be a client problem. Try invoking the target service using cURL. It may also be that one of the intermediaries (proxy, LBR) could be returning this code.]]>",

4 "SupplierId": null

Request

URI parametersHeadersBodycURLIntegration properties

TextFile

1 {
2 "taxRegistrationCountryCode": "SE",
3 "supplierTypeCode": "SUPPLIER",
4 "taxOrganizationTypeCode": "CORPORATION",|
5 "supplier": "KPMG 111234",
6 "businessRelationshipCode": "SPEND_AUTHORIZED",
7 "supplierNumber": "100772-111ddddddddd234"
8 }
}

Response

Status: 200 OKInstance ID: g4hddJt7EfCkp230JEbeHg

Body

Headers

1 {
2 "errorCode" : "",
3 "errorMessage" : "<![CDATA[Value 100772-111ddddddddd234 for field SupplierNumber exceeds the maximum length allowed.A 400 Bad Request Error indicates that the target service is unable (or refuses) to process the request sent by the client (Oracle Integration Cloud), due to an issue that is perceived by the server to be a client problem.Try invoking the target service using cURL. It may also be that one of the intermediaries (proxy, LBR) could be returning this code.]]>",
4 "supplierId" : null
5 }

Steps in AI after building the OIC integration.

Tool.

Edit Endpoint

Name

XX_FROM_AI_CREATE_SUPP

Operation Type

HTTP POST

Resource Path

/ic/api/integration/v1/flows/rest/XX_FROM_AI_CREATE_SUPP/1.0/

Description

Create supplier using REST api

Please, use these fields:

```
{
  "TaxRegistrationCountryCode": "SE",
  "SupplierTypeCode": "SUPPLIER",
  "TaxOrganizationTypeCode": "CORPORATION",
  "Supplier": "KPMG 11123DD",
  "BusinessRelationshipCode": "SPEND_AUTHORIZED",
  "SupplierNumber": "1007744"
}
```

Body Template

```
{
  "TaxRegistrationCountryCode": "{TaxRegistrationCountryCode}",
  "SupplierTypeCode": "{SupplierTypeCode}",
  "TaxOrganizationTypeCode": "{TaxOrganizationTypeCode}",
  "Supplier": "{Supplier}",
  "BusinessRelationshipCode": "{BusinessRelationshipCode}",
  "SupplierNumber": "{SupplierNumber}"
}
```

Description.

Create supplier using REST api

Please, use these fields:

```
{
  "TaxRegistrationCountryCode": "SE",
  "SupplierTypeCode": "SUPPLIER",
  "TaxOrganizationTypeCode": "CORPORATION",
  "Supplier": "KPMG 11123DD",
  "BusinessRelationshipCode": "SPEND_AUTHORIZED",
  "SupplierNumber": "1007744"
}
```

Payload.

```
{
  "TaxRegistrationCountryCode": "{TaxRegistrationCountryCode}",
  "SupplierTypeCode": "{SupplierTypeCode}",
  "TaxOrganizationTypeCode": "{TaxOrganizationTypeCode}",
  "Supplier": "{Supplier}",
  "BusinessRelationshipCode": "{BusinessRelationshipCode}",
  "SupplierNumber": "{SupplierNumber}"
}
```

Parameters		Sample Queries	Headers
<div>+ Add</div>			
Name	SupplierNumber	Data Type	String
Description	SupplierNumber		
Name	BusinessRelationshipCode	Data Type	String
Description	BusinessRelationshipCode		
Name	Supplier	Data Type	String
Description	Supplier		
Name	TaxOrganizationTypeCode	Data Type	String
Description	TaxOrganizationTypeCode		
Name	SupplierTypeCode	Data Type	String
Description			

Sample queries.

Parameters

Sample Queries

Headers

Query

```
{
  "TaxRegistrationCountryCode": "SE",
  "SupplierTypeCode": "SUPPLIER",
  "TaxOrganizationTypeCode": "CORPORATION",
  "Supplier": "KPMG 11123DD",
  "BusinessRelationshipCode": "SPEND_AUTHORIZED",
  "SupplierNumber": "1007744"
}
```

Description

Example to create supplier

Agent Team.

Fill in this data.

AA_AGENT_TEAM_SUPP_ERRO

Details

LLM

Questions

Security

Agent Team Name

AA_AGENT_TEAM_SUPP_ERRO

Agent Team Code

AAAGENTTEAMSUPPERRO

Family

PRC

Product

Supplier

Maximum Interactions

20

Description

Create Supplier using REST API

AA_AGENT_CREATE_SUPP_ERR

Worker Agent

Details

LLM

Agent Name

AA_AGENT_CREATE_SUPP_ERR

Agent Code

AAAGENTCREATESUPPERR

Family

PRC

Product

Supplier

Maximum Interactions

20

Description

Create supplier using REST API.

Prompt

Create supplier using REST API.

Return to user all response fields from REST call `ErrorCode`, `ErrorMessage`, `SupplierId`

If `ErrorCode` is not empty show "CONTROLLED ERROR"

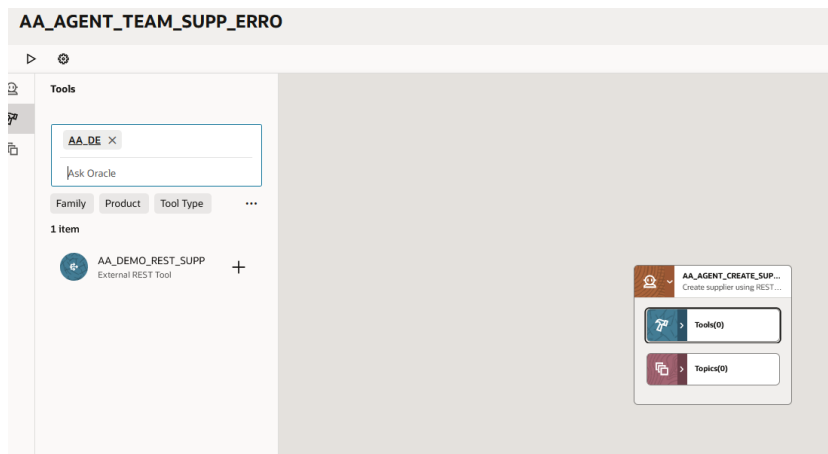
If `ErrorCode` is empty show "ALL GOOD MY FRIEND"

⊕

▼

Cancel


Create




Testing.

First test.

```
{ "TaxRegistrationCountryCode": "SE", "SupplierTypeCode": "SUPPLIER",  
  "TaxOrganizationTypeCode": "CORPORATION", "Supplier": "KPMG 11123DD",  
  "BusinessRelationshipCode": "SPEND_AUTHORIZED", "SupplierNumber": "1007744" }
```

 **AA_AGENT_CREATE_SUPP_ERR** >



The supplier "KPMG 11123DD" already exists in the system, so a new entry with the same name cannot be created. Additionally, the BusinessRelationshipCode provided appears to be invalid or inactive. Please verify that you are using a unique supplier name and a valid, active BusinessRelationshipCode before trying again. If you need help identifying the correct BusinessRelationshipCode, I can assist with that.

Ask Oracle

Note: It works, but it seems to forget our Prompt. We will focus on prompts in next chapters.

It seems all is ok, but indeed we have an error, we will show how to debug.

Input

```
{  
  "operation_type": "POST",  
  "resource_path": "/ic/api/integration/v1/flows/rest/XX_FROM_AI_CREATE_SUPP/1.0/",  
  "query_dict": {  
    "fields": "BusinessRelationshipCode"  
  },  
  "body_template": "{\n  \"TaxRegistrationCountryCode\": \"SE\",  
  \"SupplierTypeCode\": \"SUPPLIER\",  
  \"TaxOrganizationTypeCode\": \"CORPORATION\",  
  \"Supplier\": \"KPMG 11123DD\",  
  \"BusinessRelationshipCode\": \"SPEND_AUTHORIZED\",  
  \"SupplierNumber\": \"1007744\"\n}",  
  "headers": {}  
}
```

Output

```
{  
  "response": {  
    "ErrorCode": "",  
    "ErrorMessage": "<![CDATA[Supplier: A supplier with the value KPMG 11123DD already exists. You must provide a unique value. (POZ-2130307)\\nYou must provide a valid or active value for the BusinessRelationshipCode attribute. The current value is {BusinessRelationshipCode}. (POZ-2130414).A 400 Bad Request Error indicates that the target service is unable (or refuses) to process the request sent by the client (Oracle Integration Cloud), due to an issue that is perceived by the server to be a client problem. Try invoking the target service using cURL. It may also be that one of the intermediaries (proxy, LBR) could be returning this code. ]]>",  
    "SupplierId": null  
  }  
}
```

We will use this example to learn a bit to debug.

We notice something is wrong with the payload. We have to fix it.

Here we have a typo!

Body Template

```
{
  "TaxRegistrationCountryCode": "{TaxRegistrationCountryCode}",
  "SupplierTypeCode": "{SupplierTypeCode}",
  "TaxOrganizationTypeCode": "{TaxOrganizationTypeCode}",
  "Supplier": "{Supplier}",
  "BusinessRelationshipCode": "{BusinessRelationshipCode}",
  "SupplierNumber": "{SupplierNumber}"
}
```

Parameters



Sample Queries


Headers

+ Add

After fixing the typo, when repetating the try.



```
{ "TaxRegistrationCountryCode": "SE", "SupplierTypeCode": "SUPPLIER",  
  "TaxOrganizationTypeCode": "CORPORATION", "Supplier": "KP33123DD",  
  "BusinessRelationshipCode": "SPEND_AUTHORIZED", "SupplierNumber": "331007744" }
```


 **AA_AGENT_CREATE_SUPP_ERR** 

 The supplier with the details you provided has been successfully created and assigned the Supplier ID 300000316461044. If you need any further assistance or information, feel free to ask!

Another test.


```
{ "TaxRegistrationCountryCode": "SE", "SupplierTypeCode": "SUPPLIER",  
  "TaxOrganizationTypeCode": "CORPORATION", "Supplier": "KP33123DD",  
  "BusinessRelationshipCode": "SPEND_AUTHORIZED", "SupplierNumber":  
  "331007733333333333333333333333333333333333333333344" }
```

 **AA_AGENT_CREATE_SUPP_ERR** 


 The SupplierNumber you provided is too long and exceeds the maximum allowed length. Please shorten the SupplierNumber to meet the required length limits and try again. If you need help with the exact length or format, feel free to ask!

[illegible]

Another test.



AA_AGENT_CREATE_SUPP_ERR
>



The SupplierNumber you provided is now within the acceptable length, but the Supplier value "KP33123DD" already exists in the system. To proceed, please provide a unique Supplier identifier that has not been used before. If you need help creating a unique Supplier value, feel free to ask!

Ask Oracle

AA_DEMO_REST_SUPP
← → ×


Input

```
{
  "operation_type": "POST",
  "resource_path": "/ic/api/integration/v1/flows/rest/XX_FROM_AI_CREATE_SUPP/1.0/",
  "query_dict": {
    "fields": ""
  },
  "body_template": {
    "TaxRegistrationCountryCode": "SE",
    "SupplierTypeCode": "SUPPLIER",
    "TaxOrganizationTypeCode": "CORPORATION",
    "Supplier": "KP33123DD",
    "BusinessRelationshipCode": "SPEND_AUTHORIZED",
    "SupplierNumber": 33100773
  },
  "headers": {}
}
```


Output

```
{
  "response": {
    "ErrorCode": "",
    "ErrorMessage": "<![CDATA[Supplier: A supplier with the value KP33123DD already exists. You must provide a unique value. (POZ-2130307).A 400 Bad Request Error indicates that the target service is unable (or refuses) to process the request sent by the client (Oracle Integration Cloud), due to an issue that is perceived by the server to be a client problem. Try invoking the target service using CURL. It may also be that one of the intermediaries (proxy, LBR) could be returning this code. ]]>",
    "SupplierId": null
  }
}
```

The last one.



AA_AGENT_CREATE_SUPP_ERR
>



The Supplier identifier you provided, "22KP33123DD," is unique, which is good. However, the Tax Registration Country Code you entered as "\$\$" is invalid. Please provide a valid country code, such as "SE" for Sweden, to proceed with the supplier creation. If you need help with valid country codes or anything else, feel free to ask!

Ask Oracle

Input

```
{
  "operation_type": "POST",
  "resource_path": "/ic/api/integration/v1/flows/rest/XX_FROM_AI_CREATE_SUPP/1.0/",
  "query_dict": {
    "fields": ""
  },
  "body_template": {
    "TaxRegistrationCountryCode": "$$",
    "SupplierTypeCode": "SUPPLIER",
    "TaxOrganizationTypeCode": "CORPORATION",
    "Supplier": "22KP33123DD",
    "BusinessRelationshipCode": "SPEND_AUTHORIZED",
    "SupplierNumber": 22100773
  },
  "headers": {}
}
```

Output

```
{
  "response": {
    "ErrorCode": "",
    "ErrorMessage": "<![CDATA[Enter a valid country. (ZX-885391).A 400 Bad Request Error indicates that the target service is unable (or refuses) to process the request sent by the client (Oracle Integration Cloud), due to an issue that is perceived by the server to be a client problem. Try invoking the target service using curl. It may also be that one of the intermediaries (proxy, LBR) could be returning this code. ]]>",
    "SupplierId": null
  }
}
```

Conclusion.

Demo to show controlled errors in agents of type REST API.

Technical

Code example	Comments
XX_FROM_AI_CREATE_SUPP_01.00.0000.iar	To be used by you to save time.
	Use it as reference and make refinements at will.