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"
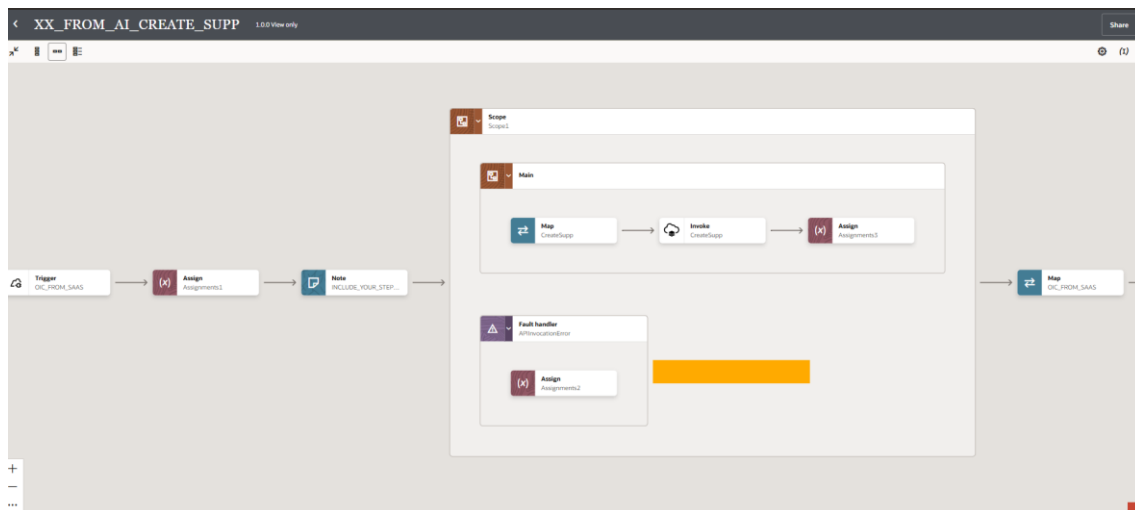
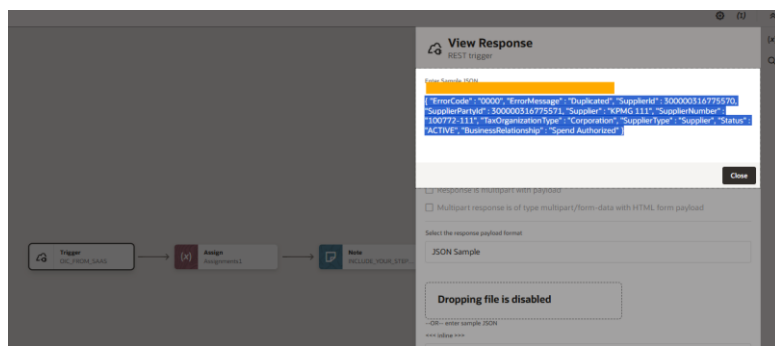This is a question seen in several Oracle AI forums.

Preparatory steps

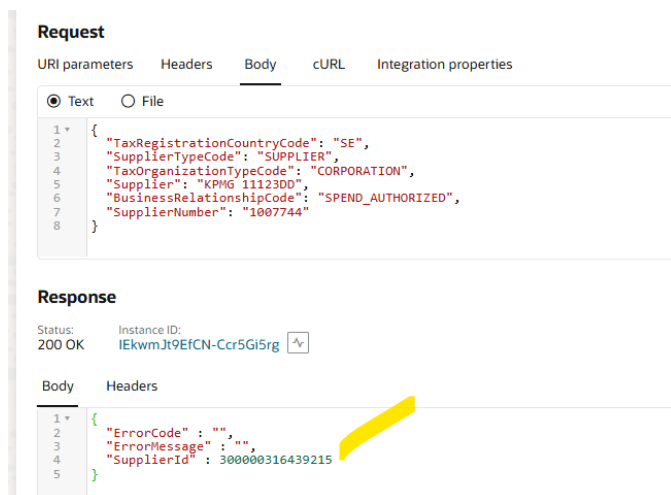Create an integration to create suppliers.

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 parameters   Headers   **Body**   cURL   Integration properties

◉ Text   ○ File

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

Response

Status: **200 OK**   Instance ID: SslRWZt9EfCkp23OjEbeHg

Body   Headers

```json
{
    "ErrorCode" : "",
    "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.  ]]>",
    "SupplierId" : null
}
```

Notice we get an empty value for SupplierId.

Testing Error 2.

Request

URI parameters   Headers   **Body**   cURL   Integration properties

◉ Text   ○ File

```json
{
    "TaxRegistrationCountryCode": "SE",
    "SupplierTypeCode": "SUPPLIER",
    "TaxOrganizationTypeCode": "CORPORATION",
    "Supplier": "KPMG 111234",
    "BusinessRelationshipCode": "SPEND_AUTHORIZED",
    "SupplierNumber": "100772-111dddddddddddddddddddddddddddddddd234"
}
```

Response

Status: **200 OK**   Instance ID: g4hddJt7EfCkp23OjEbeHg

Body   Headers

```json
{
    "ErrorCode" : "",
    "ErrorMessage" : "<![CDATA[Value 100772-111dddddddddddddddddddddddddddddddd234 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.  ]]>",
    "SupplierId" : null
}
```

Notice we get an empty value for SupplierId.

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}"
}
```

Sample queries.

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
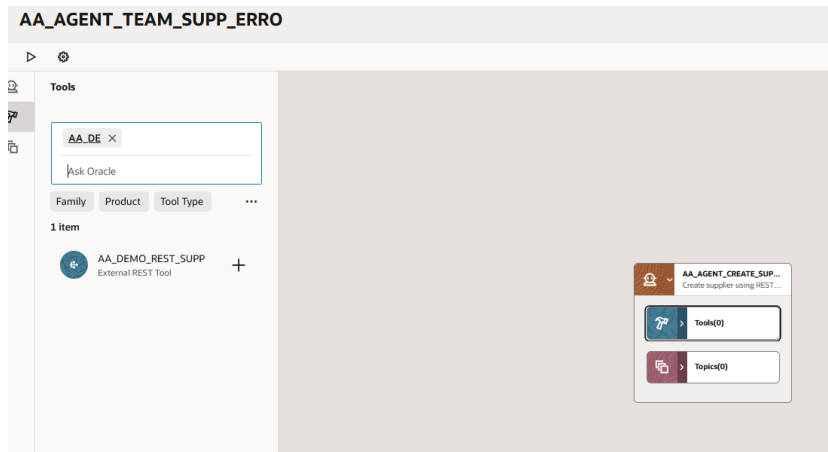20

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

AA_AGENT_TEAM_SUPP_ERRO

Tools

AA_DE ✕

Ask Oracle

Family   Product   Tool Type   ...

1 item

AA_DEMO_REST_SUPP
External REST Tool   +

AA_AGENT_CREATE_SUP...
Create supplier using REST...

Tools(0)

Topics(0)

Testing.

First test.

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.

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!

Ask Oracle

Another test.

{ "TaxRegistrationCountryCode": "SE", "SupplierTypeCode": "SUPPLIER", "TaxOrganizationTypeCode": "CORPORATION", "Supplier": "KP33123DD", "BusinessRelationshipCode": "SPEND_AUTHORIZED", "SupplierNumber": "331007733333333333333333333333333344" }

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!

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": 3.3100773333333335e+40
  },
  "headers": {}
}
```

Output

```
{
  "response": {
    "ErrorCode": "",
    "ErrorMessage": "<![CDATA[Value 3310077333333333333333333333333333333344 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 ser
ver to be a client problem. Try invoking the target service using cURL. It may also be that one of the intermed
iaries (proxy, LBR) could be returning this code.  ]]>",
    "SupplierId": null
  }
}
```

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 ser
ver to be a client problem. Try invoking the target service using cURL. It may also be that one of the intermed
iaries (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

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": "$$",
    "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 tar
get 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.