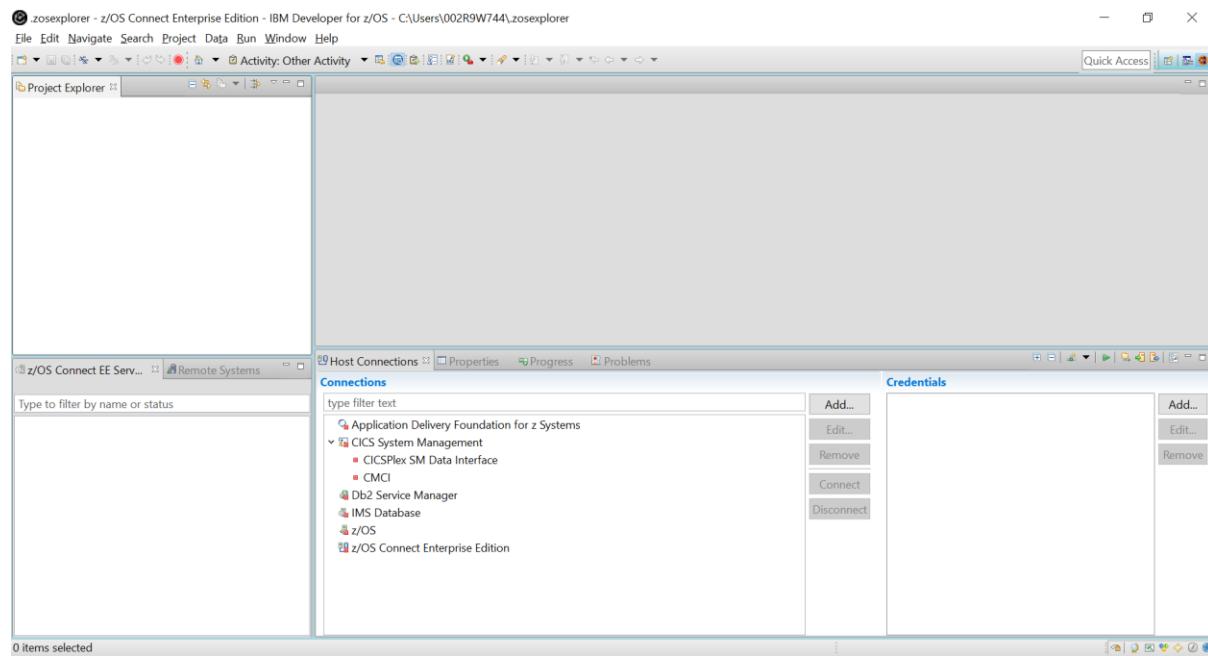
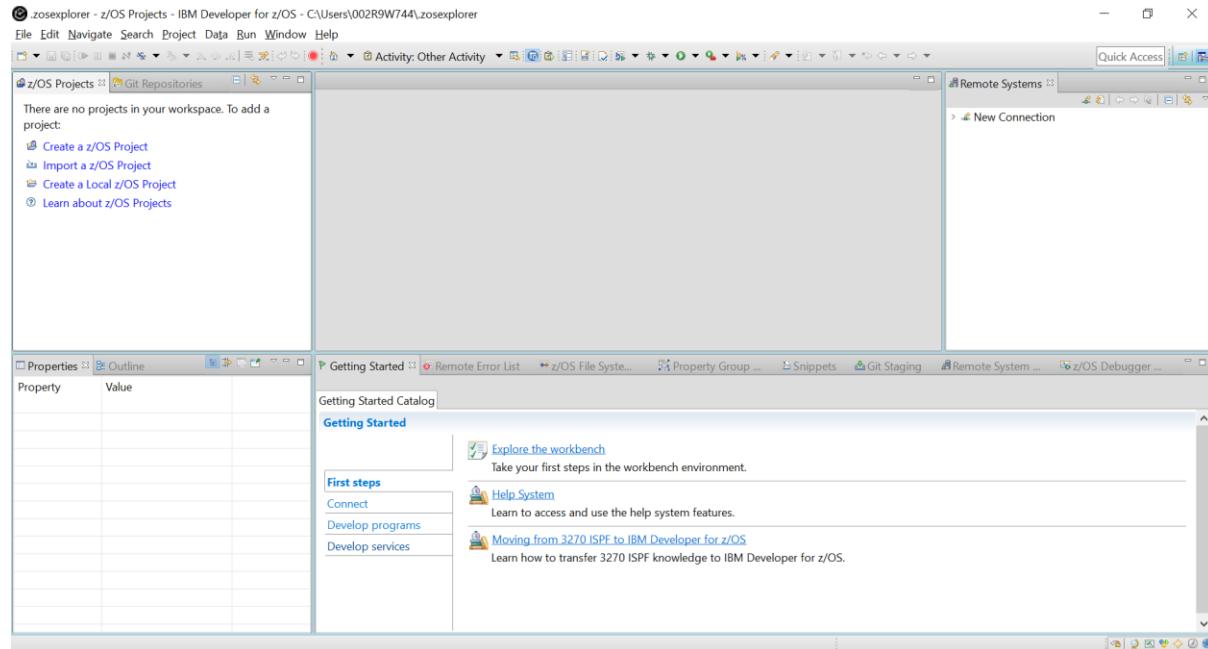
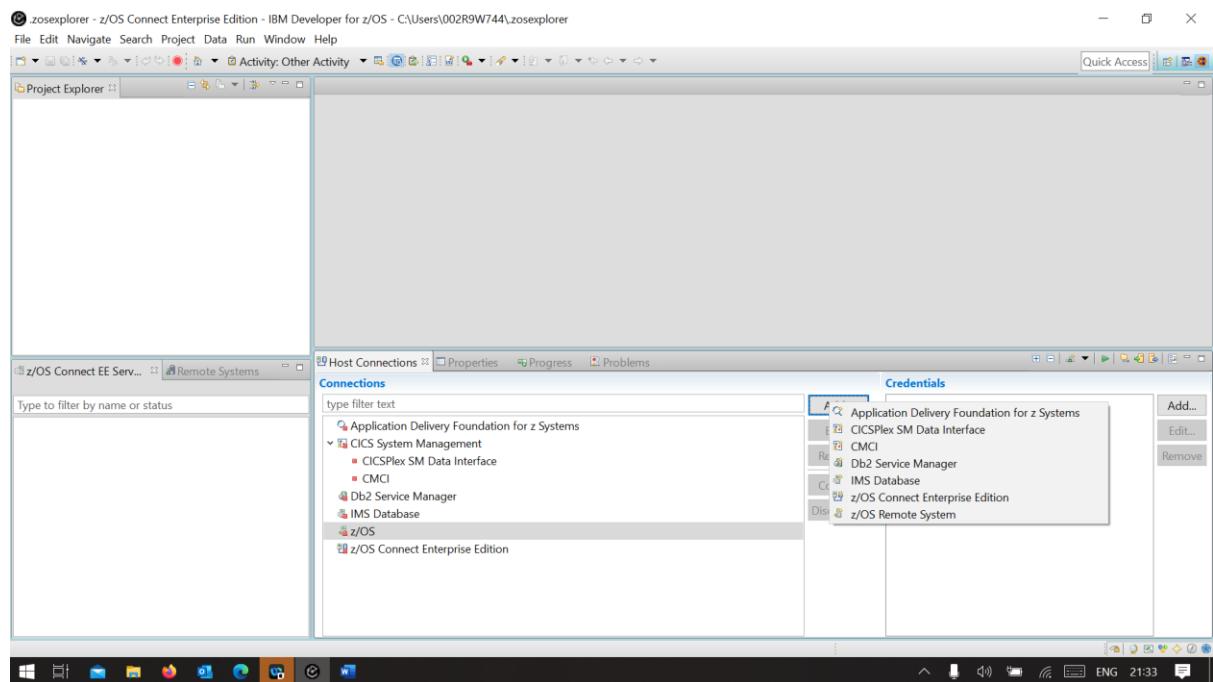


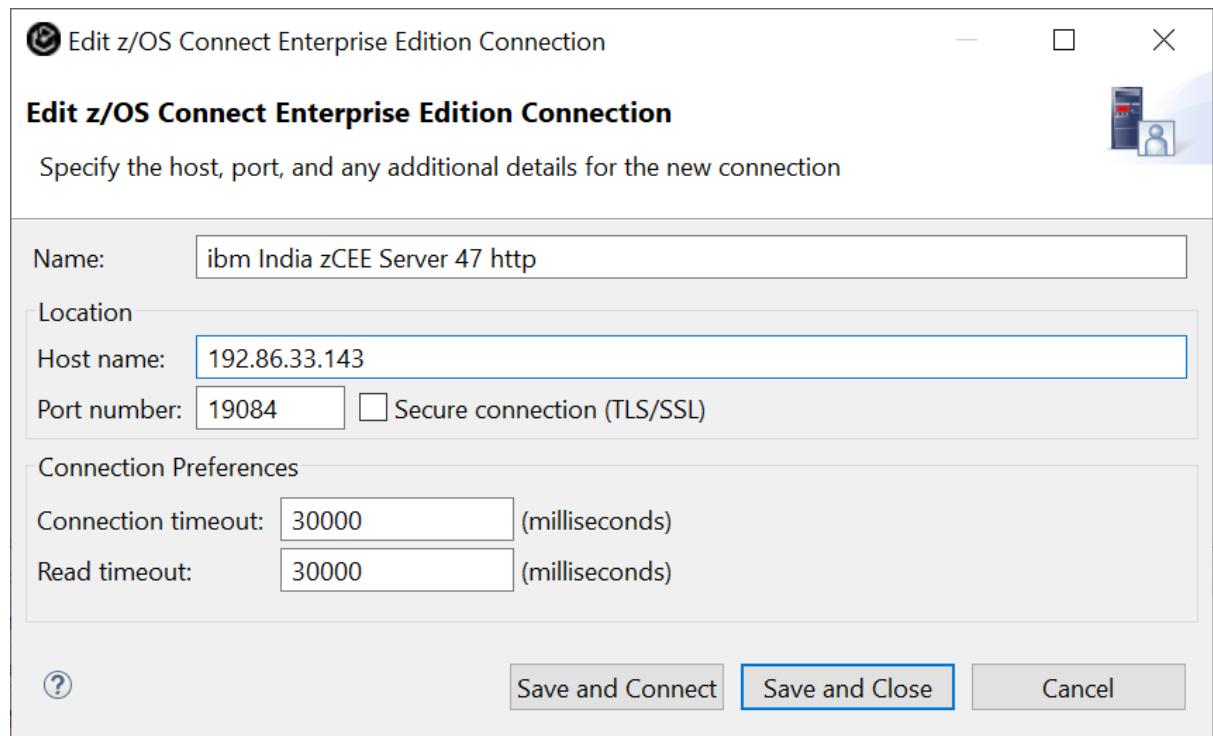
zOS Connect EE CICS lab V2.2

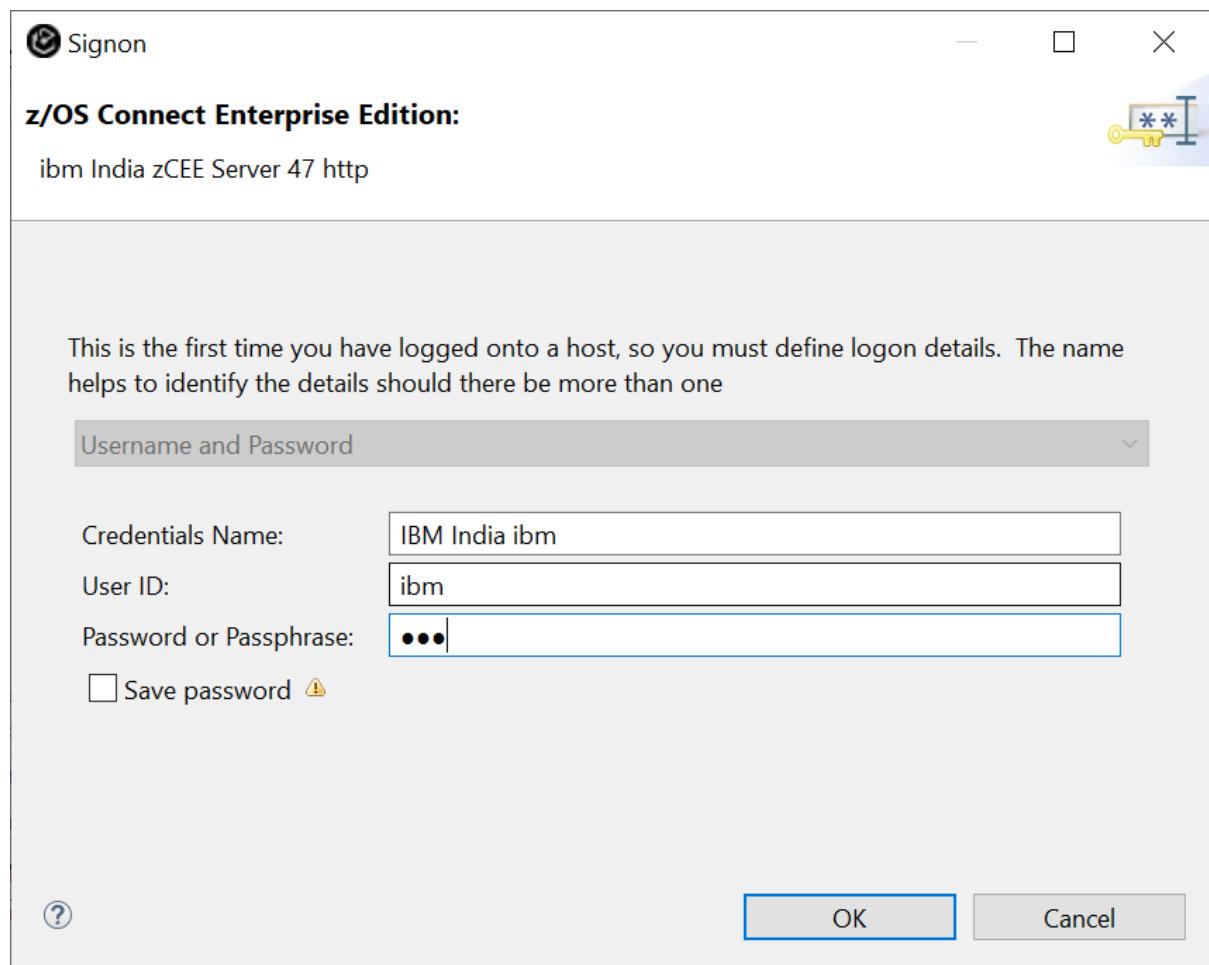
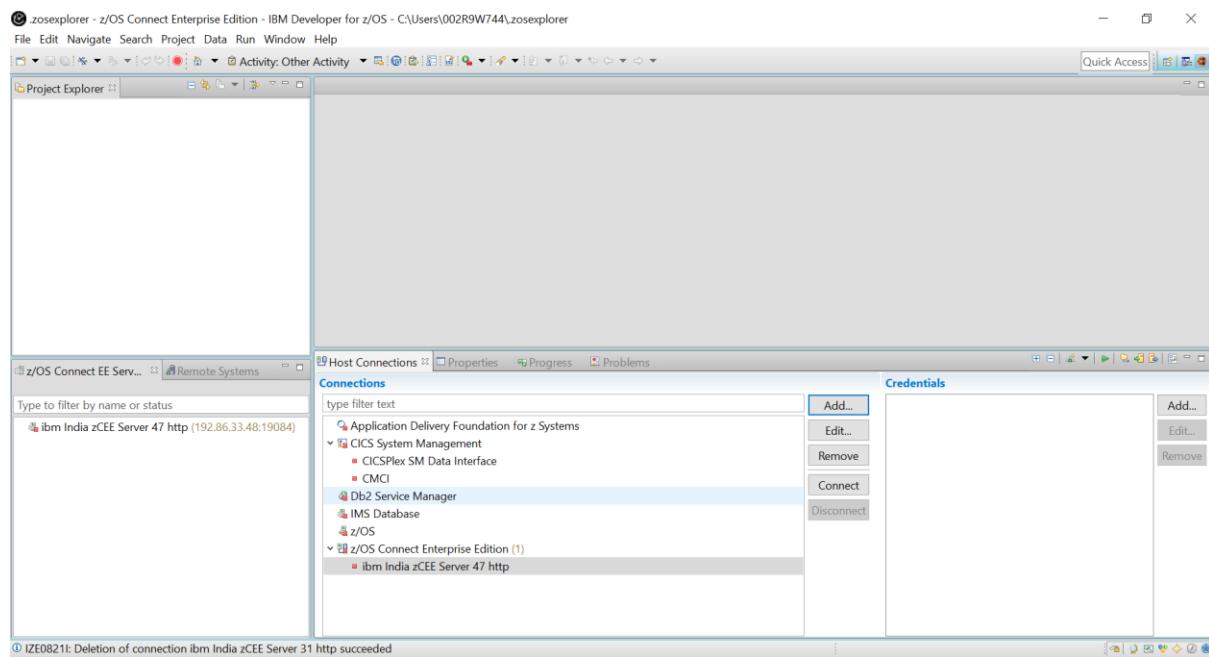
- Configure z/OS Connect Server

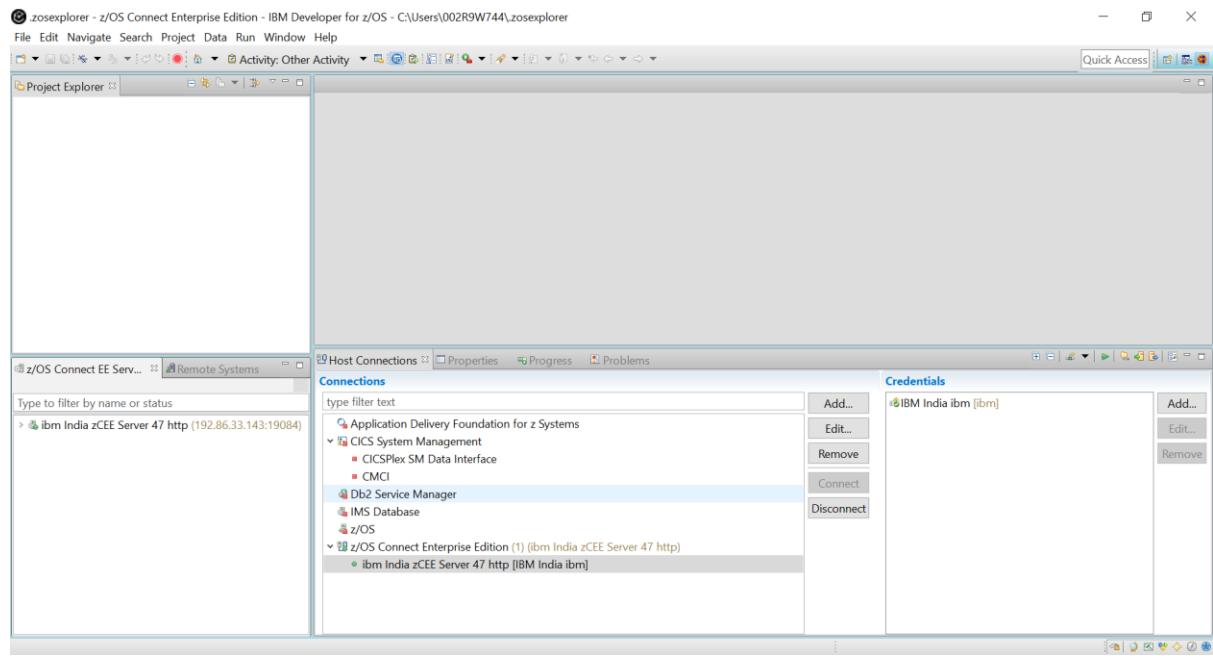




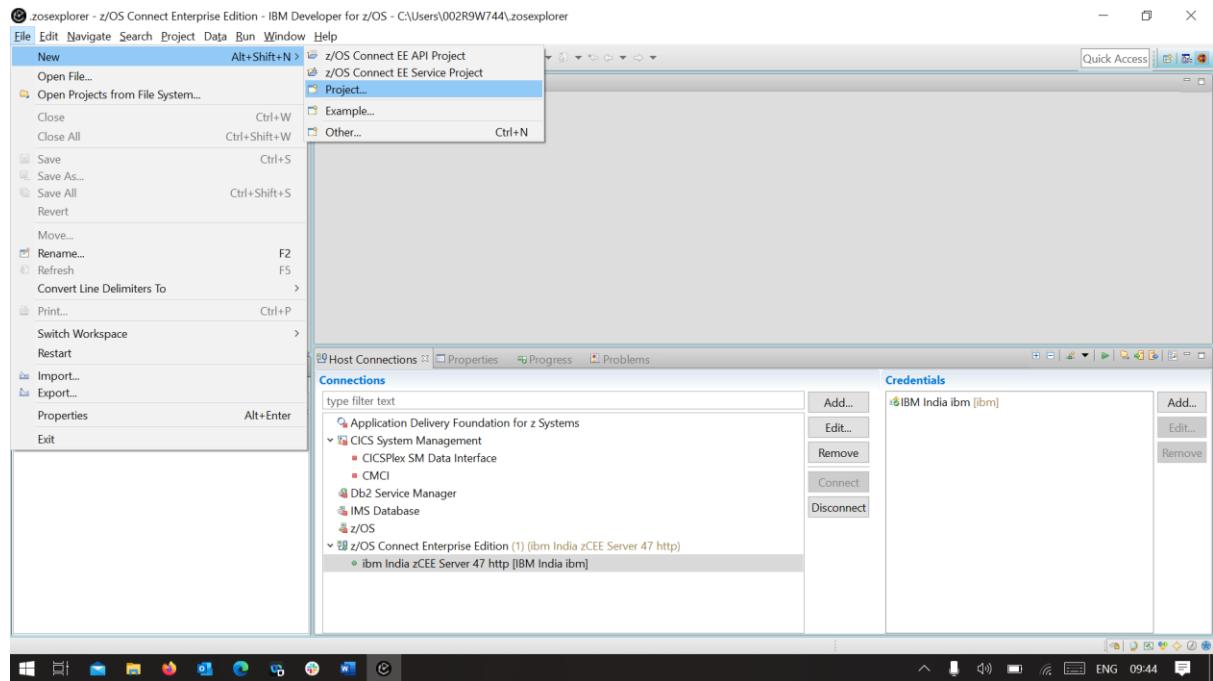
Based on Mainframes User ID(MFTR47) I have mentioned Mapping Server Details mentioned in GitHub

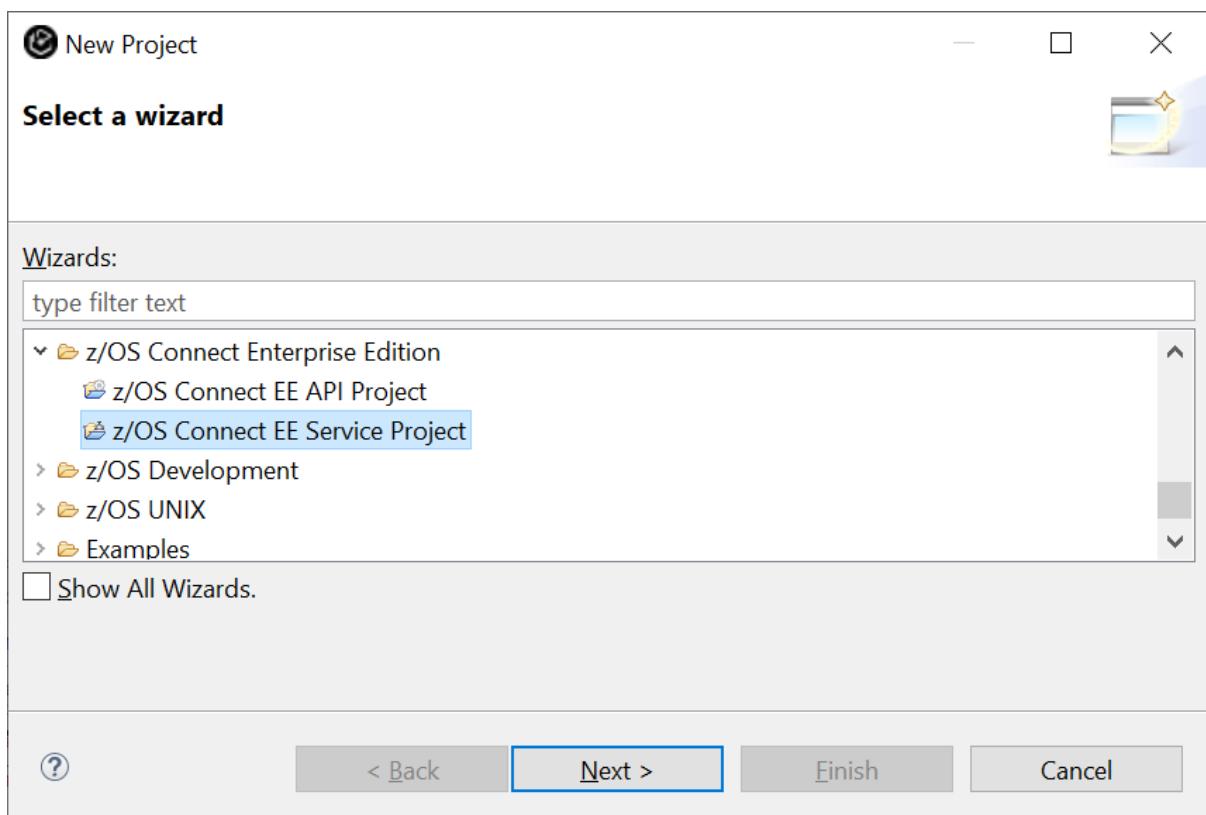
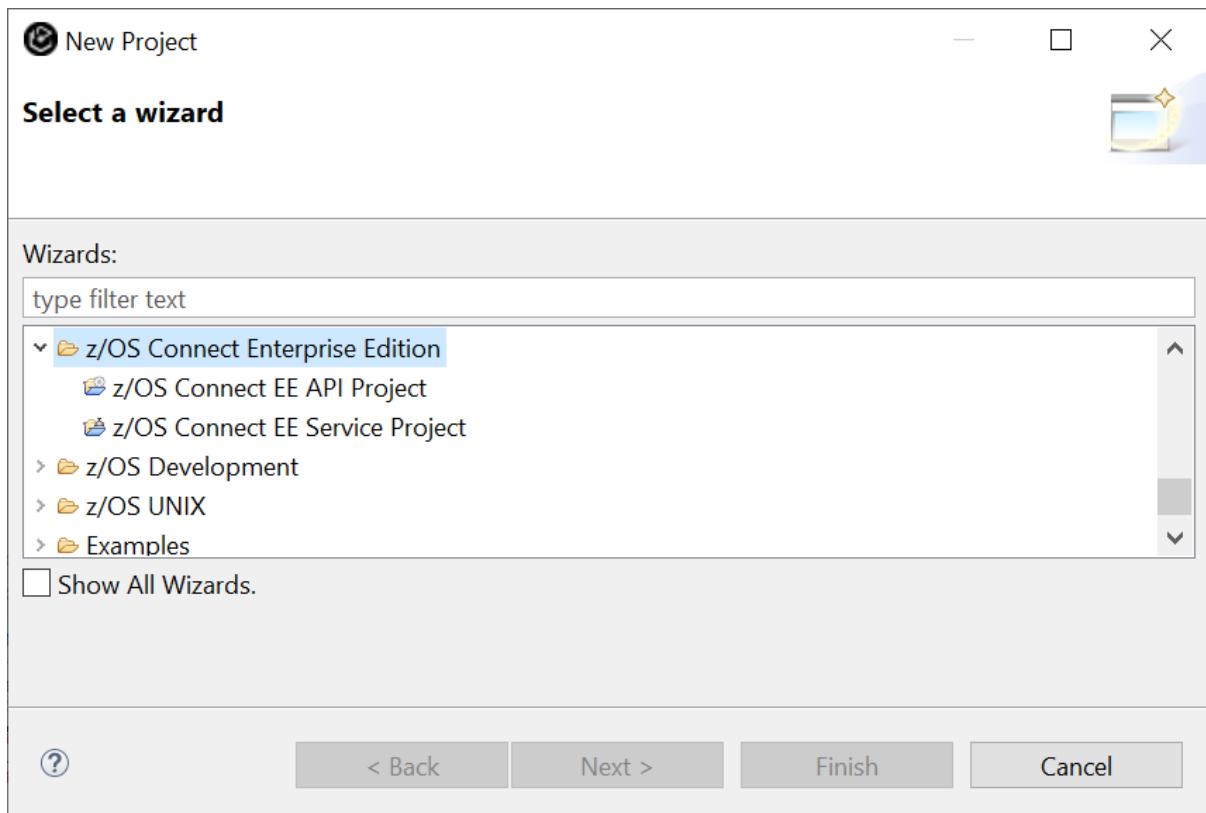






Create the z/OS Connect service project





Service configuration After creation of Project name under z/OS Connect EE service project, need to fill required details as mentioned below

 New Project

z/OS Connect EE Service Project

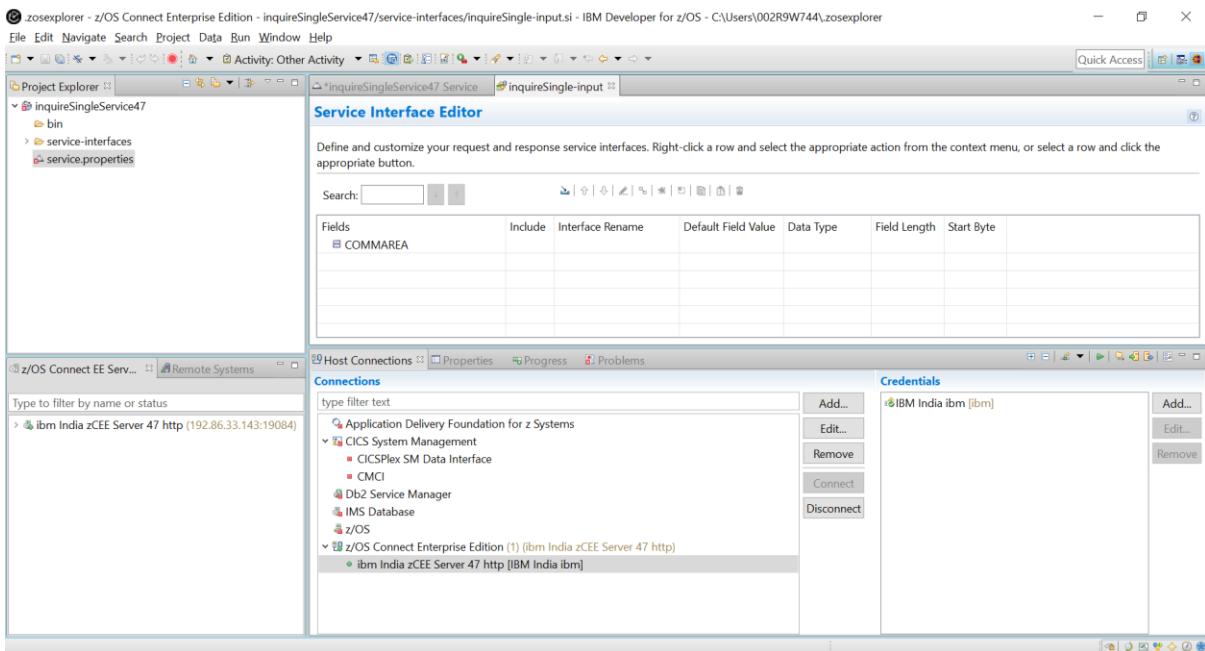
Create a new z/OS Connect EE Service project.

Project name:
inquireSingleService47

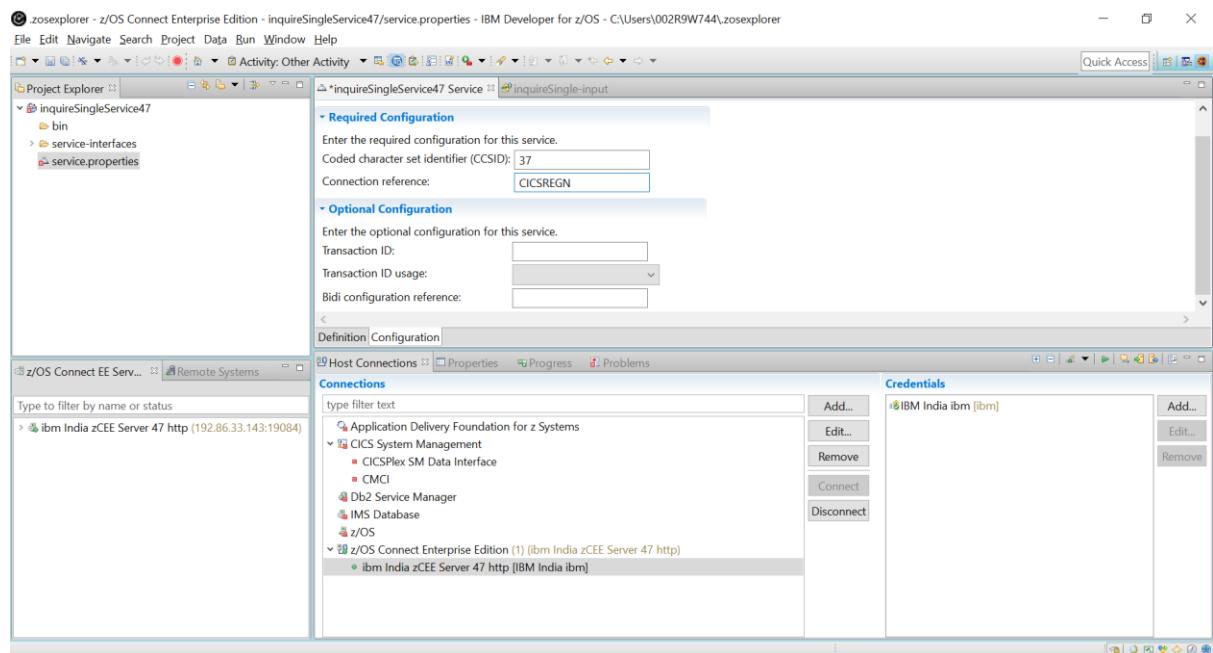
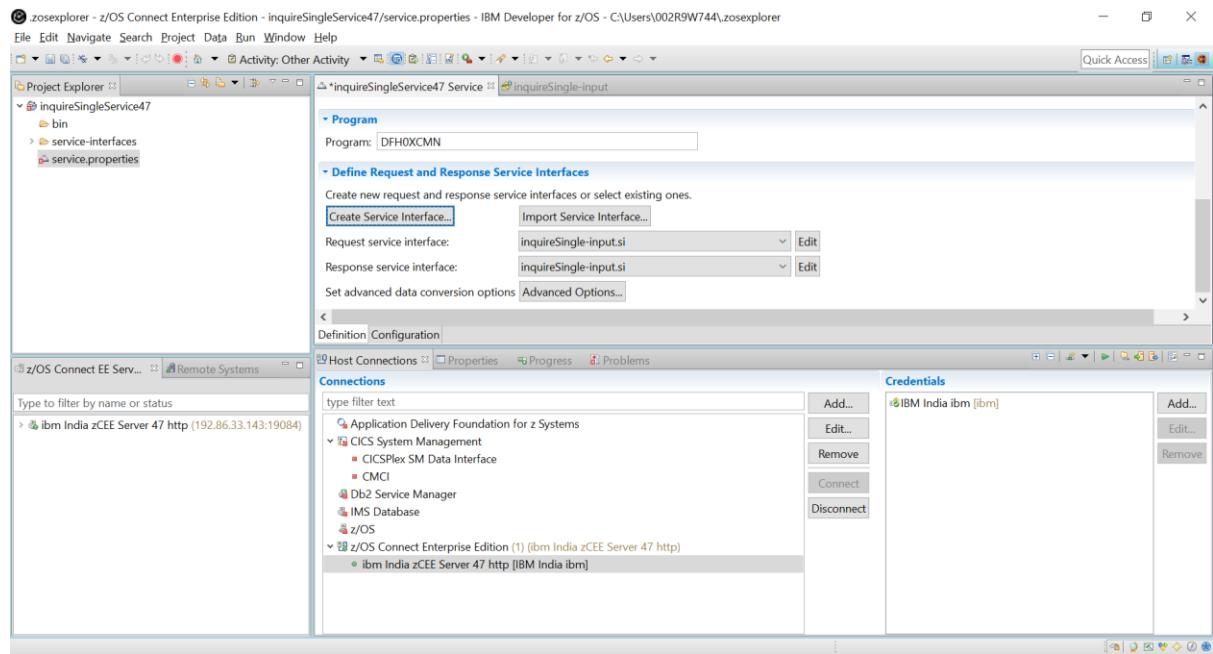
Project type:
CICS COMMAREA Service

Description:

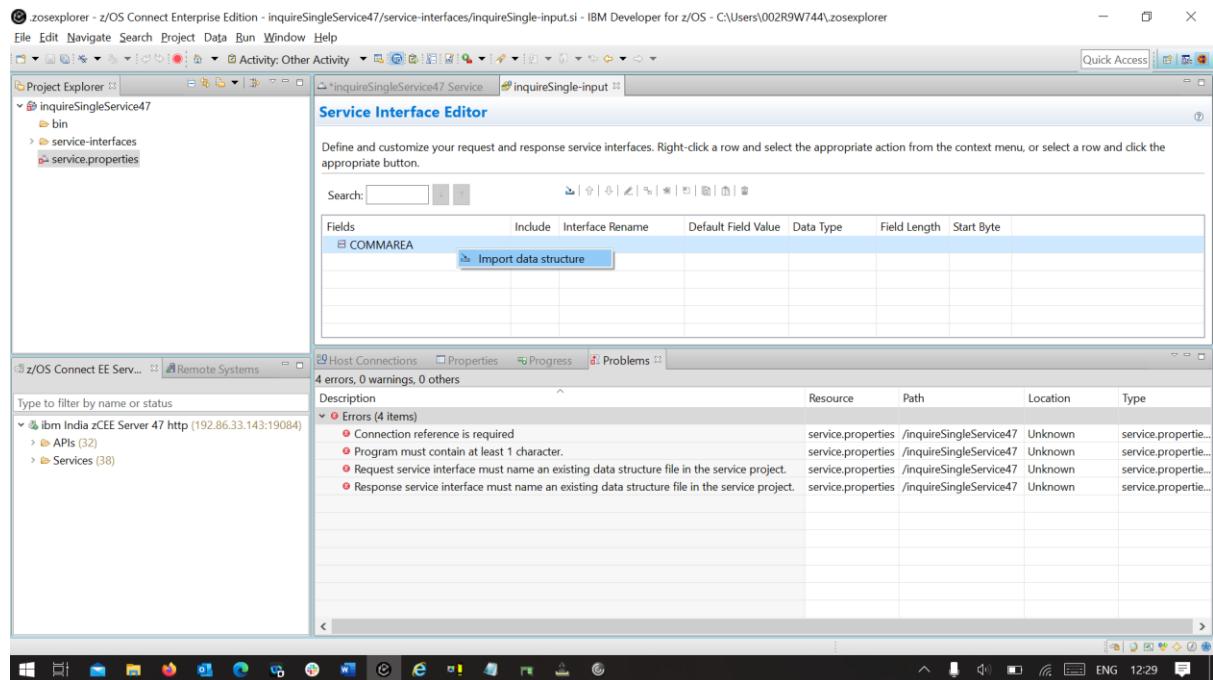
[?](#) < Back Next > **Finish** Cancel



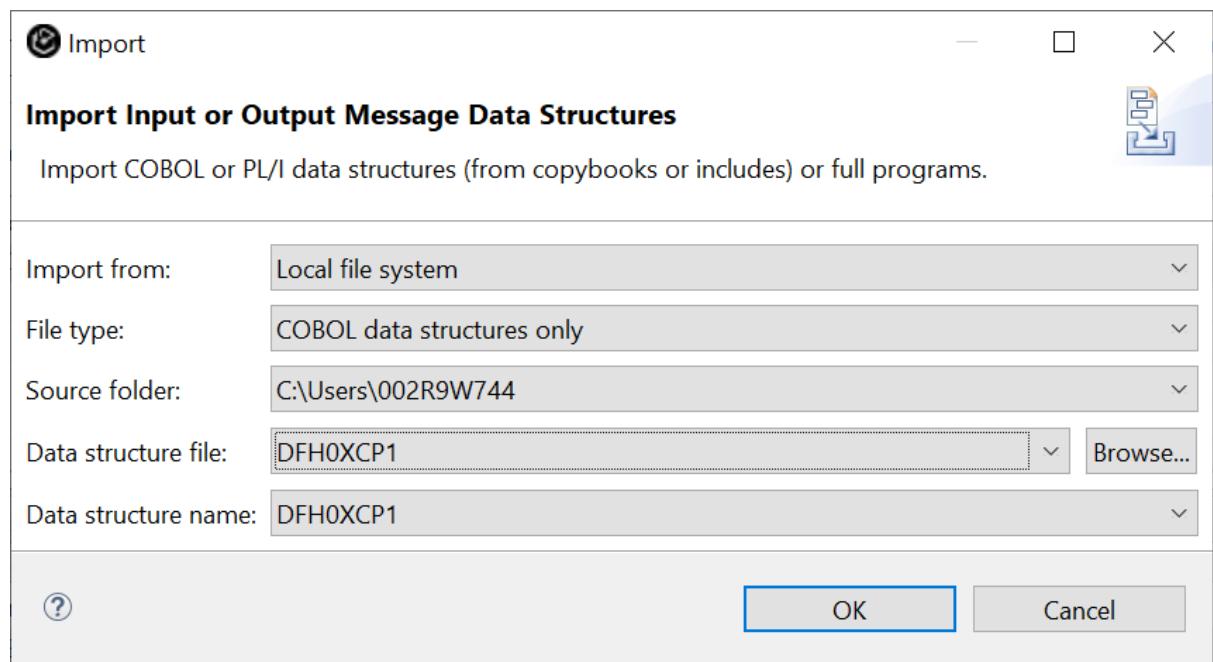
The screenshot shows the IBM Developer for z/OS interface. The top menu bar includes File, Edit, Navigate, Search, Project, Data, Run, Window, Help, and Activity: Other Activity. The toolbar has various icons for file operations like Open, Save, Print, etc. The left sidebar has a Project Explorer showing a project named 'inquireSingleService47' with subfolders bin, service-interfaces, and service.properties. The main workspace is titled 'Service Interface Editor' for 'inquireSingleService47 Service / inquireSingle-input'. It displays a table for defining service interfaces with columns: Fields, Include, Interface Rename, Default Field Value, Data Type, Field Length, and Start Byte. A single row is present with the field 'COMMAREA'. Below the editor is a 'Host Connections' panel showing 'Connections' and 'Credentials'. Under 'Connections', there are entries for Application Delivery Foundation for z Systems, CICS System Management (with sub-options for CICSplex SM Data Interface, CMCI, Db2 Service Manager, and IMS Database), z/OS, and z/OS Connect Enterprise Edition (with sub-option for ibm India zCEE Server 47 http). Under 'Credentials', there is one entry for 'IBM India ibm [ibm]'. The bottom status bar shows navigation icons.



Importing the copybook used by DFH0XCMN: DFH0XCP1 using below option



After giving local path of DFH0XCP1 copy book, and clicked on Add to Import list option



.zosexplorer - z/OS Connect Enterprise Edition - inquireSingleService47/service-interfaces/inquireSingle-input.si - IBM Developer for z/OS - C:\Users\002R9W744\zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity Quick Access

Project Explorer: inquireSingleService47
bin
service-interfaces
service.properties

Service Interface Editor: *inquireSingle-input

Define and customize your request and response service interfaces. Right-click a row and select the appropriate action from the context menu, or select a row and click the appropriate button.

Search:

Fields	Include	Interface Rename	Default Field Value	Data Type	Field Length	Start Byte
COMMAREA						
DFH0XCP1		DFH0XCP1				
CA_REQUEST_ID	<input checked="" type="checkbox"/>	CA_REQUEST_ID		CHAR	6	1
CA_RETURN_CODE	<input checked="" type="checkbox"/>	CA_RETURN_CODE		DECIMAL	2	7
CA_RESPONSE_MESSAGE	<input checked="" type="checkbox"/>	CA_RESPONSE_MESSAGE		CHAR	79	9
CA_REQUEST_SPECIFIC (Req)	<input checked="" type="checkbox"/>	CA_REQUEST_SPECIFIC		CHAR	911	88
CA_INQUIRE_REQUEST redef	<input checked="" type="checkbox"/>	CA_INQUIRE_REQUEST		STRUCT	911	88
CA_LIST_START_REF	<input checked="" type="checkbox"/>	CA_LIST_START_REF		DECIMAL	4	88
CA_LAST_ITEM_REF	<input checked="" type="checkbox"/>	CA_LAST_ITEM_REF		DECIMAL	4	92
CA_ITEM_COUNT	<input checked="" type="checkbox"/>	CA_ITEM_COUNT		DECIMAL	3	96
CA_INQUIRY_RESOURCE	<input checked="" type="checkbox"/>	CA_INQUIRY_RESOURCE		CHAR	600	nn

z/OS Connect EE Server... Remote Systems

Type to filter by name or status

ibm India zCEE Server 47 http (192.86.33.143:19084)
APIs (32)
Services (38)

Host Connections Properties Progress Problems

Connections: type filter text Add... Edit... Remove Connect Disconnect

Credentials: IBM India ibm [ibm] Add... Edit... Remove

IZE0100I Connected to 192.86.33.143:19084 - ibm

.zosexplorer - z/OS Connect Enterprise Edition - inquireSingleService47/service-interfaces/inquireSingle-input.si - IBM Developer for z/OS - C:\Users\002R9W744\zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity Quick Access

Project Explorer: inquireSingleService47
bin
service-interfaces
service.properties

Service Interface Editor: *inquireSingle-input

Define and customize your request and response service interfaces. Right-click a row and select the appropriate action from the context menu, or select a row and click the appropriate button.

Search:

Fields	Include	Interface Rename	Default Field Value	Data Type	Field Length	Start Byte
CA_ITEM_COUNT	<input checked="" type="checkbox"/>	CA_ITEM_COUNT		DECIMAL	3	96
CA_INQUIRY_RESPONSE	<input checked="" type="checkbox"/>	CA_INQUIRY_RESPONSE		CHAR	900	99
CA_CAT_ITEM (15..15) redef	<input checked="" type="checkbox"/>	CA_CAT_ITEM		ARRAY	900	99
CA_ITEM_REF	<input checked="" type="checkbox"/>	CA_ITEM_REF		DECIMAL	4	
CA_DESCRIPTION	<input checked="" type="checkbox"/>	CA_DESCRIPTION		CHAR	40	
CA_DEPARTMENT	<input checked="" type="checkbox"/>	CA_DEPARTMENT		DECIMAL	3	
CA_COST	<input checked="" type="checkbox"/>	CA_COST		CHAR	6	
IN_STOCK	<input checked="" type="checkbox"/>	IN_STOCK		DECIMAL	4	
ON_ORDER	<input checked="" type="checkbox"/>	ON_ORDER		DECIMAL	3	
CA_INQUIRE_SINGLE redef	<input checked="" type="checkbox"/>	CA_INQUIRE_SINGLE		STRUCT	911	88
CA_ITEM_REF_00	<input checked="" type="checkbox"/>	CA_ITEM_REF_00		DECIMAL	4	nn

z/OS Connect EE Server... Remote Systems

Type to filter by name or status

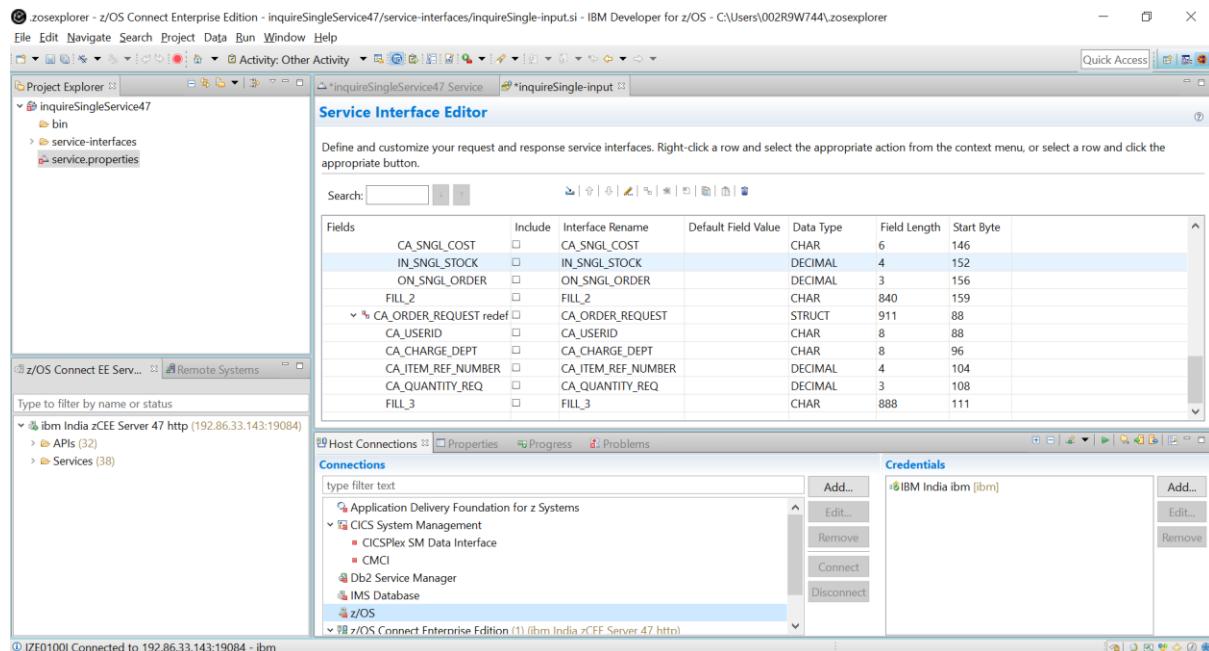
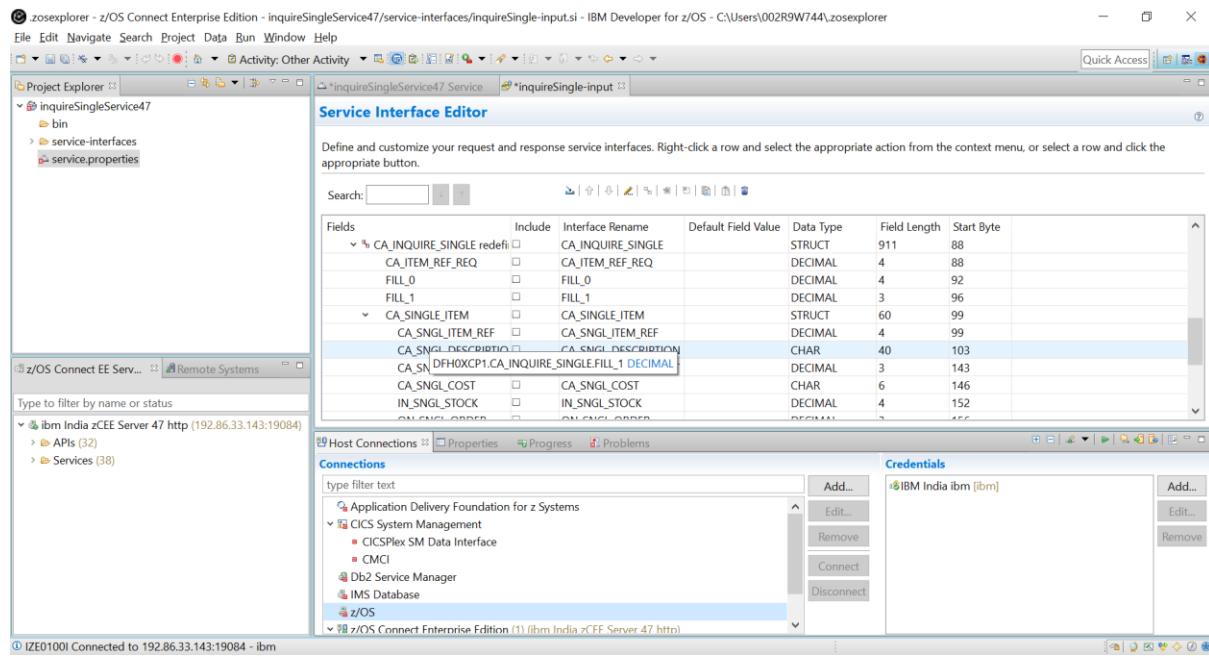
ibm India zCEE Server 47 http (192.86.33.143:19084)
APIs (32)
Services (38)

Host Connections Properties Progress Problems

Connections: type filter text Add... Edit... Remove Connect Disconnect

Credentials: IBM India ibm [ibm] Add... Edit... Remove

IZE0100I Connected to 192.86.33.143:19084 - ibm



For inquireSingle-input, the following actions need to be done:

- Exclude CA_RETURN_CODE, CA_RESPONSE_MESSAGE because these are response fields. To exclude you need to uncheck the include box.
- Exclude CA_REQUEST_SPECIFIC because this field will be redefined by CA_INQUIRE_SINGLE
- Exclude CA_REQUEST_ID from the interface and assign the default value: 01INQS.

To assign a default value to a field, right-click the field, then choose Edit field, specify the default value and validate

.zosexplorer - z/OS Connect Enterprise Edition - inquireSingleService47/service-interfaces/inquireSingle-input.si - IBM Developer for z/OS - C:\Users\002R9W744\zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity Quick Access

Project Explorer

- inquireSingleService47
 - bin
 - service-interfaces
 - service.properties

z/OS Connect EE Server... Remote Systems

Type to filter by name or status

ibm India zCEE Server 47 http (192.86.33.143:19084)

- APIs (32)
- Services (38)

Service Interface Editor

Define and customize your request and response service interfaces. Right-click a row and select the appropriate action from the context menu, or select a row and click the appropriate button.

Search:

Fields	Include	Interface Rename	Default Field Value	Data Type	Field Length	Start Byte
COMMAREA						
DFH0XCP1		DFH0XCP1				
CA_REQUEST_ID	<input type="checkbox"/>	CA_REQUEST_ID	01INQS	CHAR	6	1
CA_RETURN_CODE	<input type="checkbox"/>	CA_RETURN_CODE		DECIMAL	2	7
CA_RESPONSE_MESSAGE	<input type="checkbox"/>	CA_RESPONSE_MESSAGE		CHAR	79	9
CA_REQUEST_SPECIFIC (Redefined)	<input type="checkbox"/>	CA_REQUEST_SPECIFIC		CHAR	911	88
CA_INQUIRE_REQUEST redefines CA_REQ	<input type="checkbox"/>	CA_INQUIRE_REQUEST		STRUCT	911	88
CA_INQUIRE_SINGLE redefines CA_REQ	<input type="checkbox"/>	CA_INQUIRE_SINGLE		STRUCT	911	88
CA_ORDER_REQUEST redefines CA_REQ	<input type="checkbox"/>	CA_ORDER_REQUEST		STRUCT	911	88
DFH0XCP1.CA_INQUIRE_SINGLE STRUCT				REDEFINES CA_REQUEST_SPECIFIC		

Host Connections Properties Progress Problems

Connections

Credentials

IBM India ibm [ibm]

.zosexplorer - z/OS Connect Enterprise Edition - inquireSingleService47/service-interfaces/inquireSingle-input.si - IBM Developer for z/OS - C:\Users\002R9W744\zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity Quick Access

Project Explorer

- inquireSingleService47
 - bin
 - service-interfaces
 - service.properties

z/OS Connect EE Server... Remote Systems

Type to filter by name or status

ibm India zCEE Server 47 http (192.86.33.143:19084)

- APIs (32)
- Services (38)

Service Interface Editor

Define and customize your request and response service interfaces. Right-click a row and select the appropriate action from the context menu, or select a row and click the appropriate button.

Search:

Fields	Include	Interface Rename	Default Field Value	Data Type	Field Length	Start Byte
COMMAREA						
DFH0XCP1		DFH0XCP1				
CA_REQUEST_ID	<input type="checkbox"/>	CA_REQUEST_ID	01INQS	CHAR	6	1
CA_RETURN_CODE	<input checked="" type="checkbox"/>	CA_RETURN_CODE		DECIMAL	2	7
CA_RESPONSE_MESSAGE	<input type="checkbox"/>	CA_RESPONSE_MESSAGE		CHAR	79	9
CA_REQUEST_SPECIFIC (Redefined)	<input type="checkbox"/>	CA_REQUEST_SPECIFIC		CHAR	911	88
CA_INQUIRE_REQUEST redefines CA_REQ	<input type="checkbox"/>	CA_INQUIRE_REQUEST		STRUCT	911	88
CA_INQUIRE_SINGLE redefines CA_REQ	<input type="checkbox"/>	CA_INQUIRE_SINGLE		STRUCT	911	88
CA_ORDER_REQUEST redefines CA_REQ	<input type="checkbox"/>	CA_ORDER_REQUEST		STRUCT	911	88

Host Connections Properties Progress

Connections

Credentials

IBM India ibm [ibm]

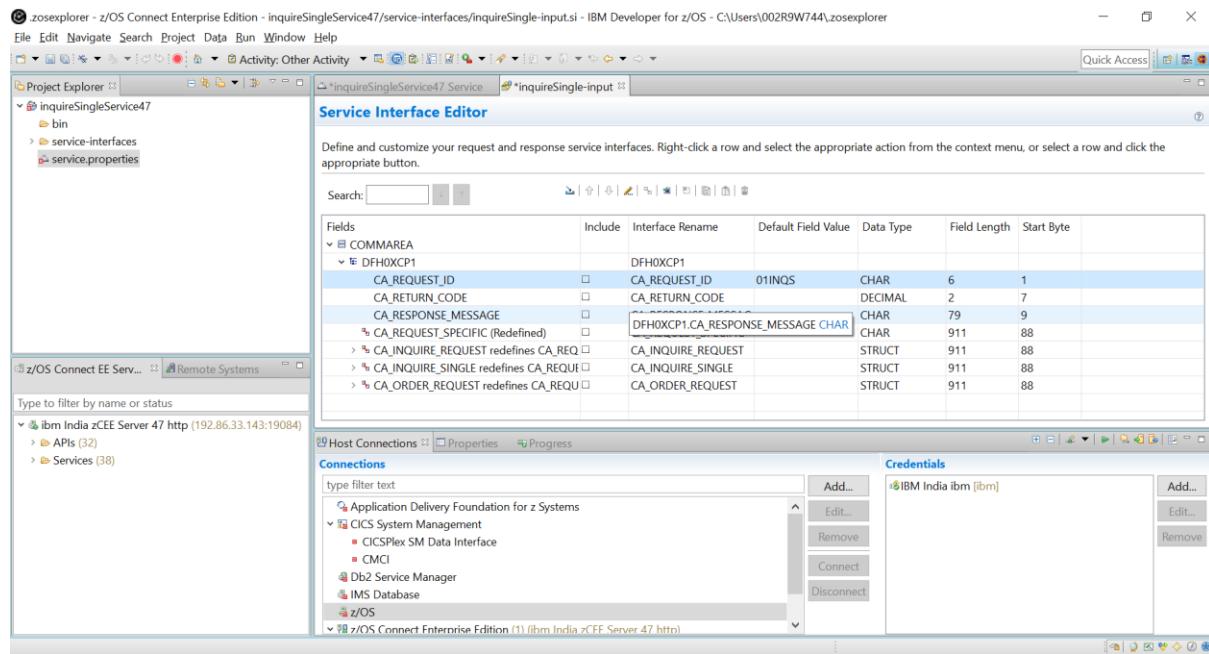


Edit Field

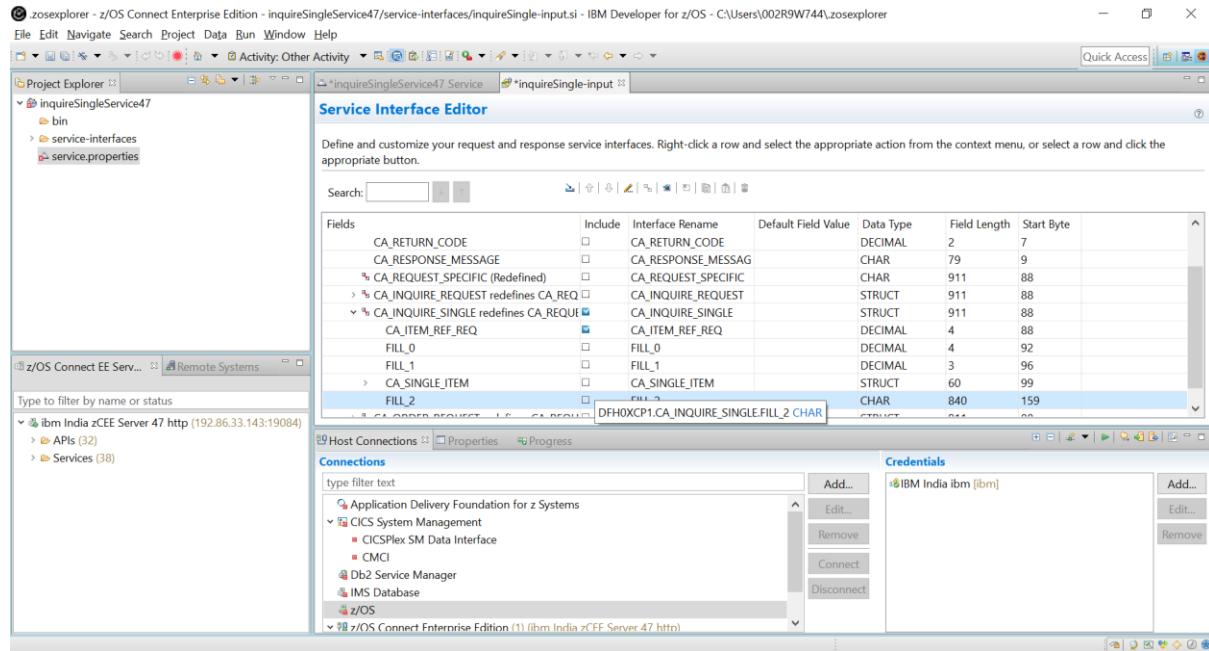


Original name:	CA_REQUEST_ID
Interface rename:	<input type="text" value="CA_REQUEST_ID"/>
Start byte:	1
Length:	6
Original data type:	CHAR
Override data type:	<input type="text"/>
Default value type:	<input type="text" value="C (CHAR)"/>
Default value:	<input type="text" value="01INQS"/>
Code page conversion:	<input checked="" type="checkbox"/>
Business description:	<input type="text"/>

? OK Cancel



- Include CA_INQUIRE_SINGLE, and only the underlying CA_ITEM_REF_REQ. This field allow to specify which item information to retrieve.
- Optionally, exposed field can be renamed. To rename a field, right-click the field, choose Edit field and specify a different interface rename



.zosexplorer - z/OS Connect Enterprise Edition - inquireSingleService47/service-interfaces/inquireSingle-input.si - IBM Developer for z/OS - C:\Users\002R9W744\zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity

Project Explorer

- inquireSingleService47
 - bin
 - service-interfaces
 - service.properties

z/OS Connect EE Server... Remote Systems

Type to filter by name or status

- ibm India zCEE Server 47 http (192.86.33.143:19084)
 - APIs (32)
 - Services (38)

Service Interface Editor

Define and customize your request and response service interfaces. Right-click a row and select the appropriate action from the context menu, or select a row and click the appropriate button.

Search:

Fields	Include	Interface Rename	Default Field Value	Data Type	Field Length	Start Byte
COMMAREA						
DFH0XCP1		DFH0XCP1	01INQS	CHAR	6	1
CA_REQUEST_ID	<input type="checkbox"/>	CA_REQUEST_ID		DECIMAL	2	7
CA_RETURN_CODE	<input type="checkbox"/>	CA_RETURN_CODE		CHAR	79	9
CA_RESPONSE_MESSAGE	<input type="checkbox"/>	CA_RESPONSE_MESSAGE		CHAR	911	88
CA_REQUEST_SPECIFIC (Redefined)	<input type="checkbox"/>	CA_REQUEST_SPECIFIC		CHAR	911	88
CA_INQUIRE_REQUEST redefines CA_REQ	<input type="checkbox"/>	CA_INQUIRE_REQUEST		STRUCT	911	88
CA_LIST_START_REF	<input type="checkbox"/>	CA_LIST_START_REF		DECIMAL	4	88
CA_LAST_ITEM_REF	<input type="checkbox"/>	CA_LAST_ITEM_REF		DECIMAL	4	92
CA_ITEM_COUNT	<input type="checkbox"/>	CA_ITEM_COUNT		DECIMAL	3	96
CA_INQUIRY_RESPONSE_DATA (Redefine)	<input type="checkbox"/>	CA_INQUIRY_RESPONSE		CHAR	900	99
CA_CAT_ITEM [15..15] redefines CA_INC	<input type="checkbox"/>	CA_CAT_ITEM		ARRAY	900	99
CA_INQUIRE_SINGLE redefines CA_INQ	<input type="checkbox"/>	CA_INQUIRE_SINGLE		STRUCT	911	88
CA_ITEM_REF_REQ	<input type="checkbox"/>	CA_ITEM_REF_REQ		DECIMAL	4	88
FILL_0	<input type="checkbox"/>	FILL_0		DECIMAL	4	92

Host Connections Properties Progress Problems

Connections

type filter text

- Application Delivery Foundation for z Systems
- CICS System Management
 - CICSplex SM Data Interface

Credentials

- IBM India ibm [ibm]

Edit Field

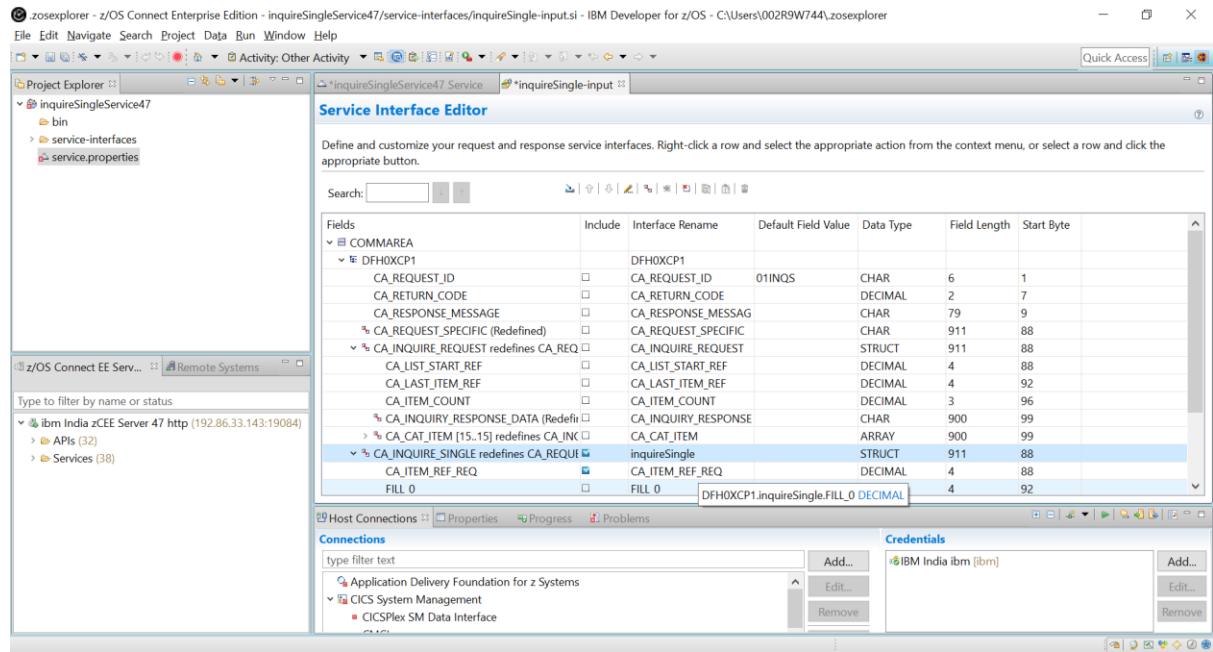
Original name: CA_INQUIRE_SINGLE

Interface rename: inquireSingle

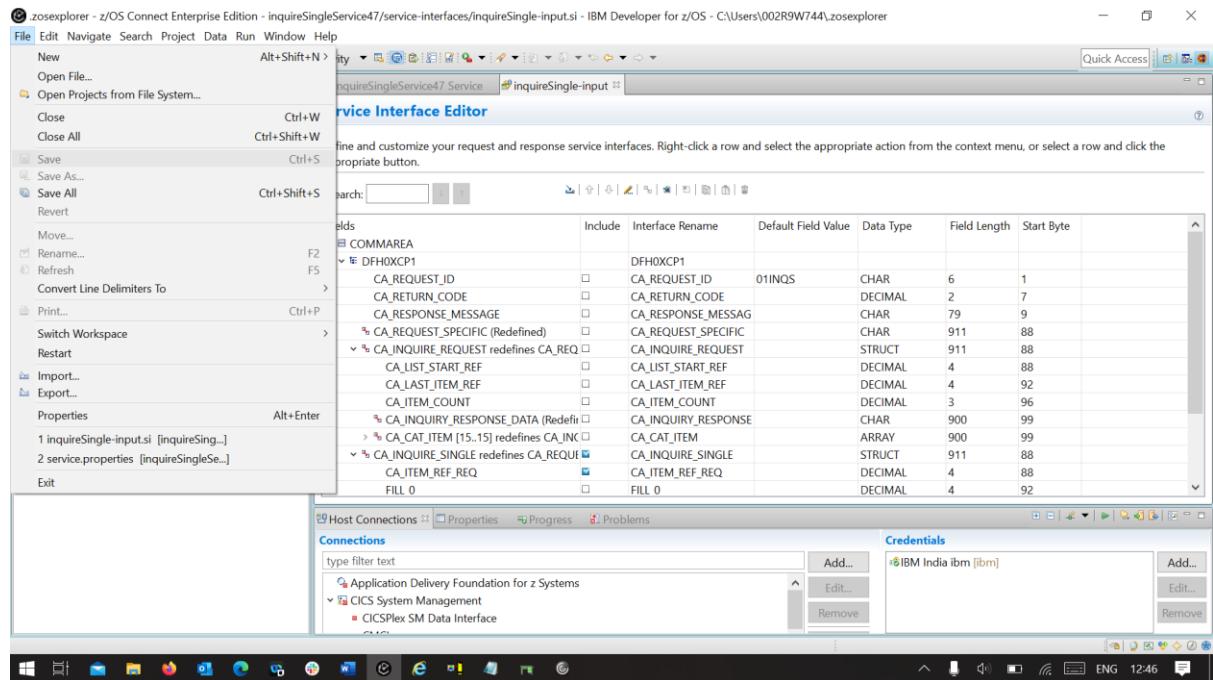
Business description:

?

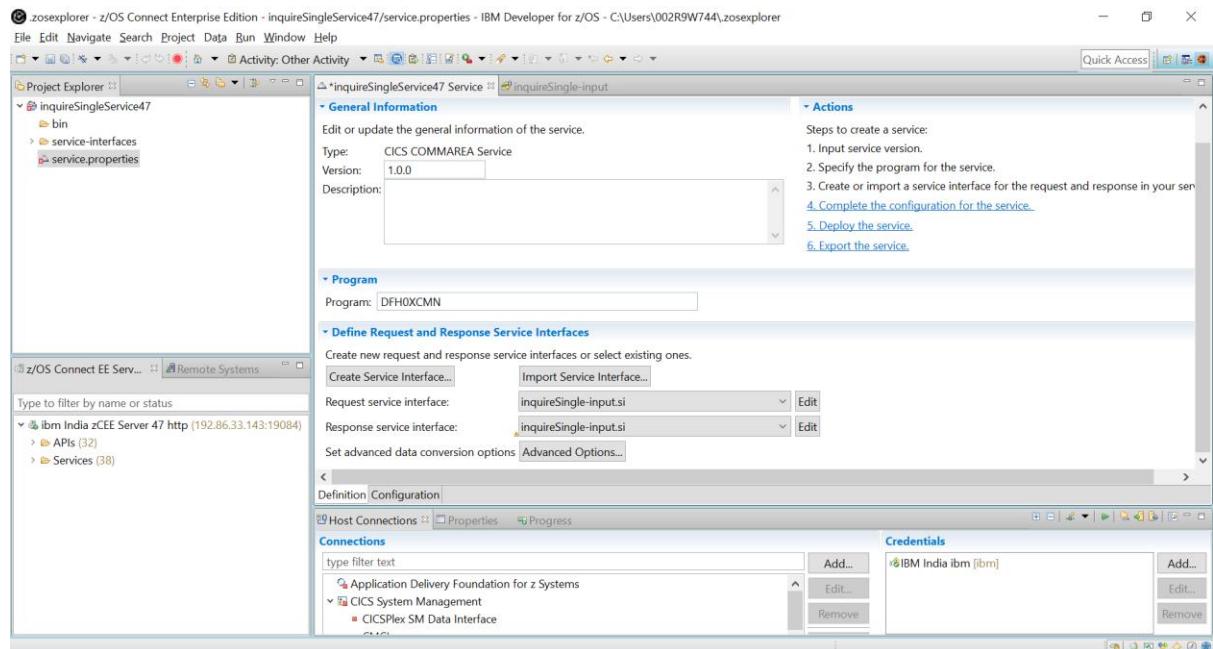
OK Cancel



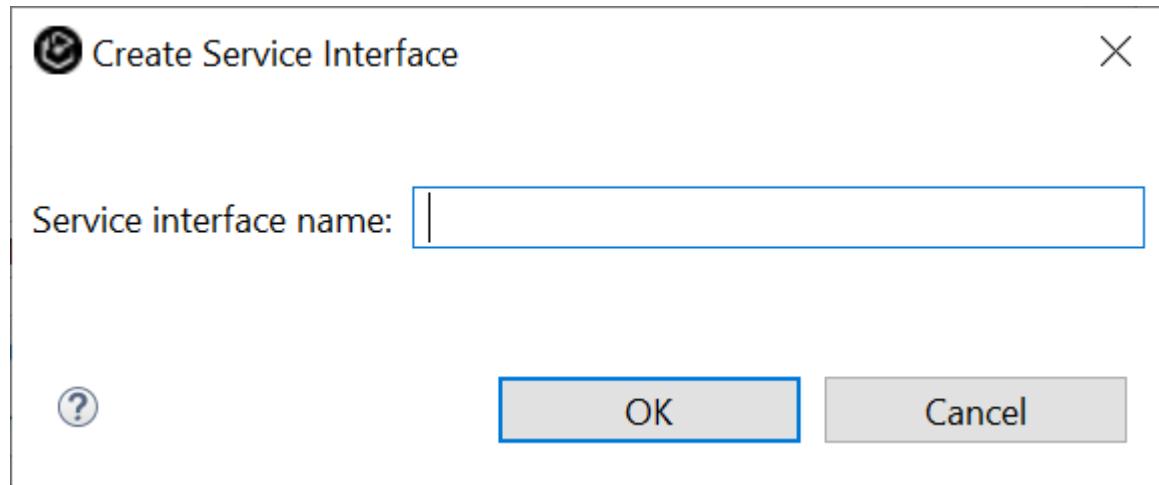
Saved changes after modifications

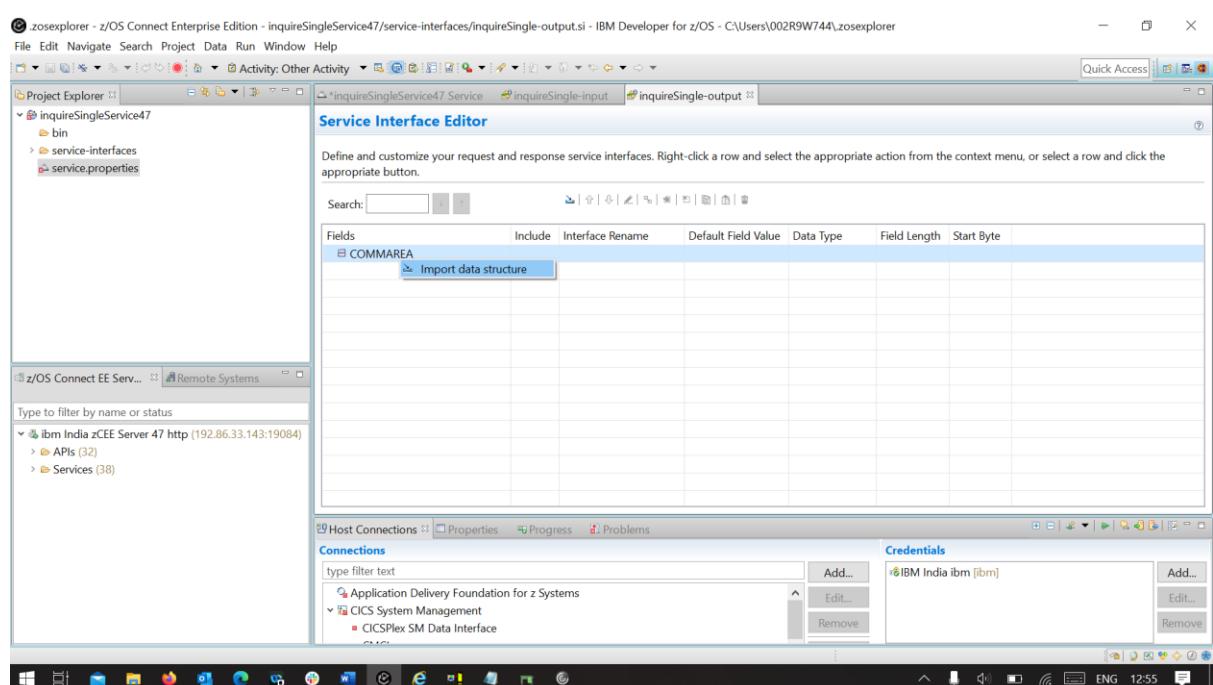
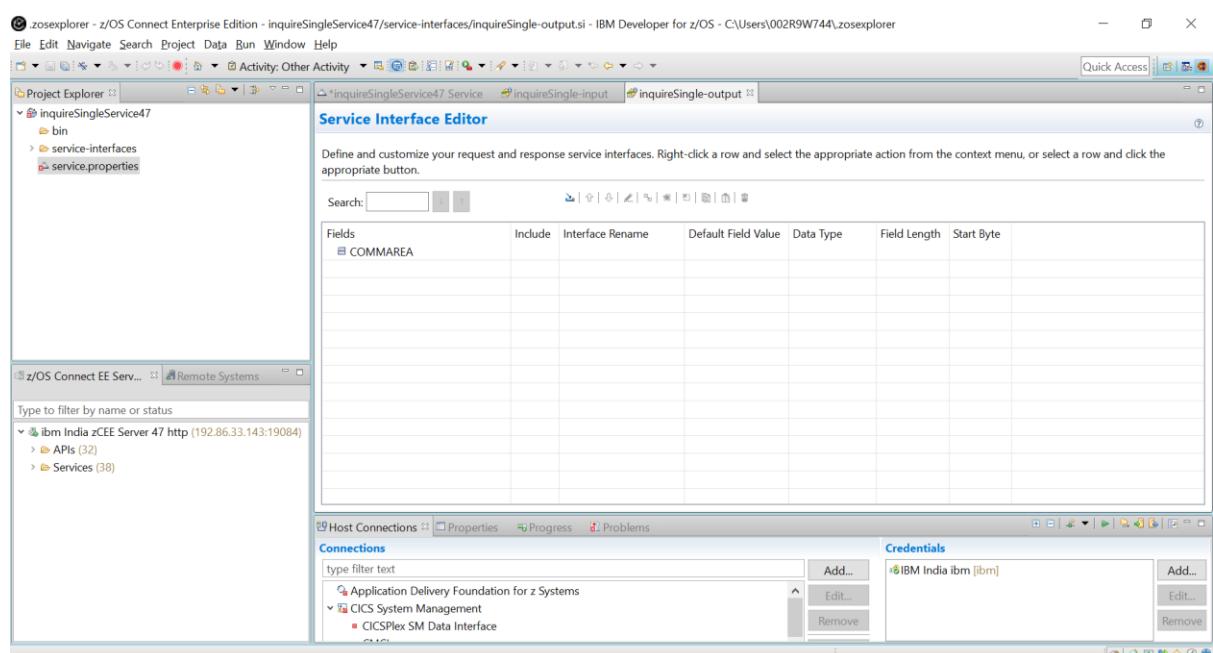
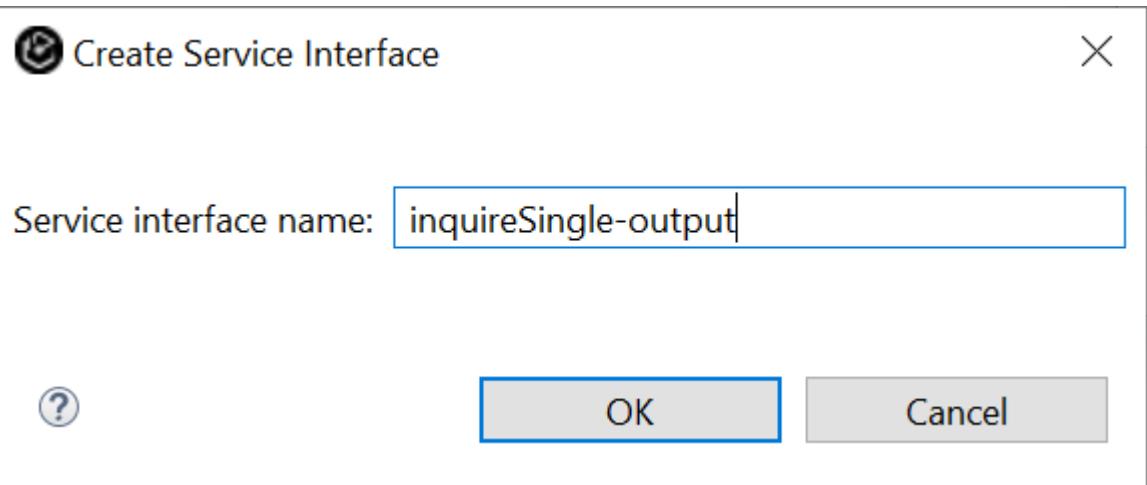


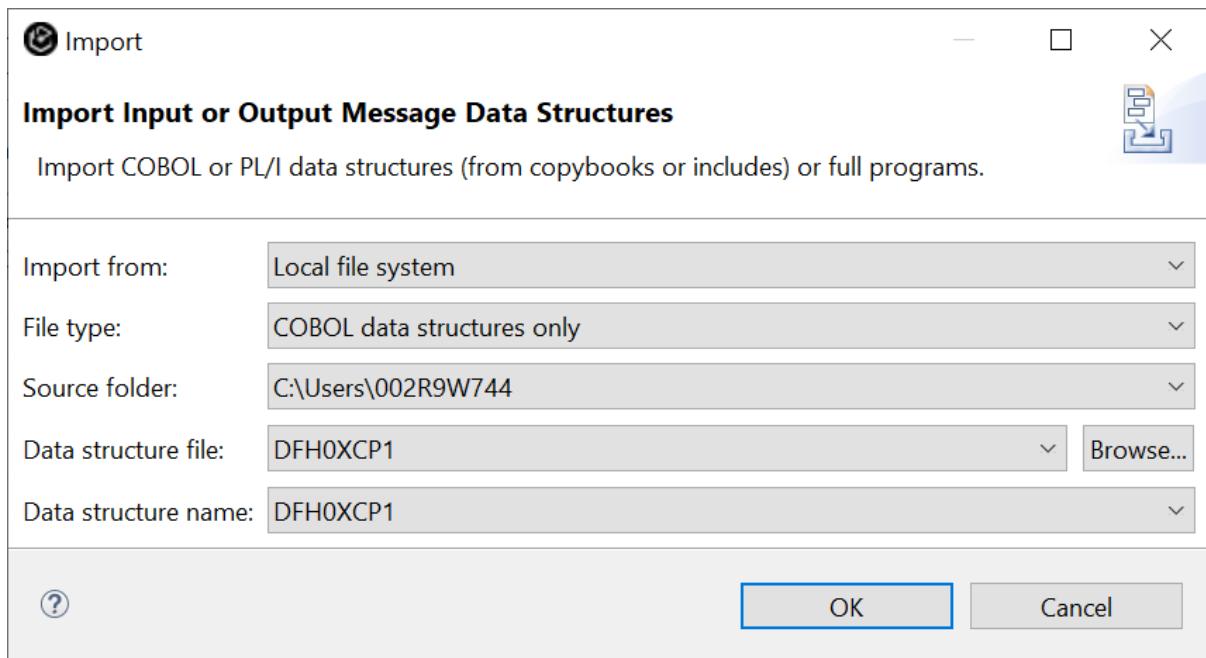
Go back to the inquireSingleServiceN Service tab.



create a new service interface for the output: inquireSingle-output







- ___ 5. Go back to the inquireSingleServiceN Service tab.
- ___ 6. Note that the service interface you just defined is used for request and response.

Let's create a new service interface for the output: inquireSingle-output.

- ___ 7. In the new service interface, you will need to:
 - Import the DFH0XCP1 copybook
 - Extend the data structure
 - Include and exclude fields according to the picture on the next page
 - Rename exposed fields to give names that make more sense

At the end you should end up with a service interface looking similar to the following configuration.

zoseplorer - z/OS Connect Enterprise Edition - inquireSingleService47/service-interfaces/inquireSingle-output.si - IBM Developer for z/OS - C:\Users\002R9W744\.zoseplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity

Project Explorer

- inquireSingleService47
 - bin
 - service-interfaces
 - service.properties

z/OS Connect EE Server... Remote Systems

Type to filter by name or status

- ibm India zCEE Server 47 http (192.86.33.143:19084)
 - APIs (32)
 - Services (38)

Service Interface Editor

Define and customize your request and response service interfaces. Right-click a row and select the appropriate action from the context menu, or select a row and click the appropriate button.

Fields	Include	Interface Rename	Default Field Value	Data Type	Field Length	Start Byte
COMMAREA						
DFH0XCP1		DFH0XCP1				
CA_REQUEST_ID	<input type="checkbox"/>	CA_REQUEST_ID		CHAR	6	1
CA_RETURN_CODE	<input checked="" type="checkbox"/>	CA_RETURN_CODE		DECIMAL	2	7
CA_RESPONSE_MESSAGE	<input checked="" type="checkbox"/>	CA_RESPONSE_MESSAGE		CHAR	79	9
CA_REQUEST_SPECIFIC (Redefined)	<input type="checkbox"/>	CA_REQUEST_SPECIFIC		CHAR	911	88
CA_INQUIRE_REQUEST redefines CA_REQ	<input type="checkbox"/>	CA_INQUIRE_REQUEST		STRUCT	911	88
CA_INQUIRE_SINGLE redefines CA_REQ	<input type="checkbox"/>	InquireSingle		STRUCT	911	88
CA_ITEM_REF_REQ	<input type="checkbox"/>	CA_ITEM_REF_REQ		DECIMAL	4	88
FILL_0	<input type="checkbox"/>	FILL_0		DECIMAL	4	92
FILL_1	<input type="checkbox"/>	FILL_1		DECIMAL	3	96
CA_SINGLE_ITEM	<input type="checkbox"/>	item		STRUCT	60	99
CA_SNGL_ITEM_REF	<input checked="" type="checkbox"/>	DFH0XCP1.InquireSingle.item.itemId	DECIMAL	DECIMAL	4	99
CA_SNGL_DESCRIPTION	<input checked="" type="checkbox"/>	CA_SNGL_DESCRIPTION		CHAR	40	103
CA_SNGL_DEPARTMENT	<input checked="" type="checkbox"/>	CA_SNGL_DEPARTMENT		DECIMAL	3	143

Host Connections Properties Progress Problems

4 errors, 0 warnings, 0 others

Description	Resource	Path	Location	Type
Errors (4 items)				
Connection reference is required	service.properties	/inquireSingleService47	Unknown	service.property
Program must contain at least 1 character.	service.properties	/inquireSingleService47	Unknown	service.property

zoseplorer - z/OS Connect Enterprise Edition - inquireSingleService47/service-interfaces/inquireSingle-output.si - IBM Developer for z/OS - C:\Users\002R9W744\.zoseplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity

Project Explorer

- inquireSingleService47
 - bin
 - service-interfaces
 - service.properties

z/OS Connect EE Server... Remote Systems

Type to filter by name or status

- ibm India zCEE Server 47 http (192.86.33.143:19084)
 - APIs (32)
 - Services (38)

Service Interface Editor

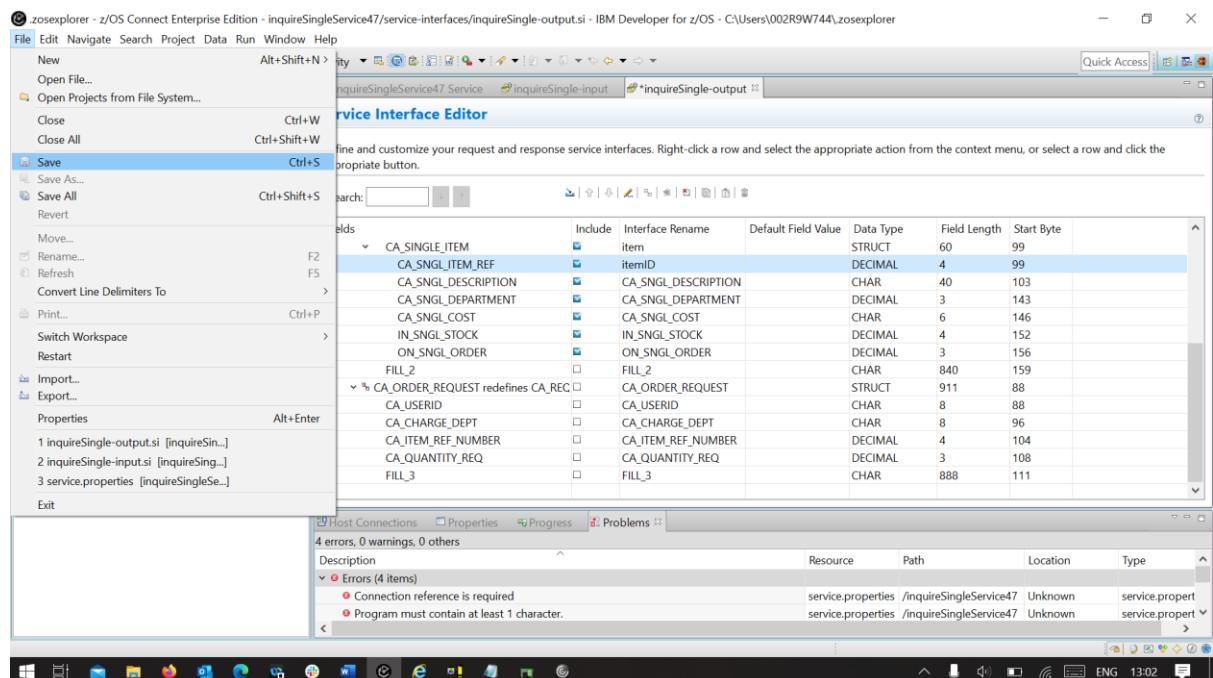
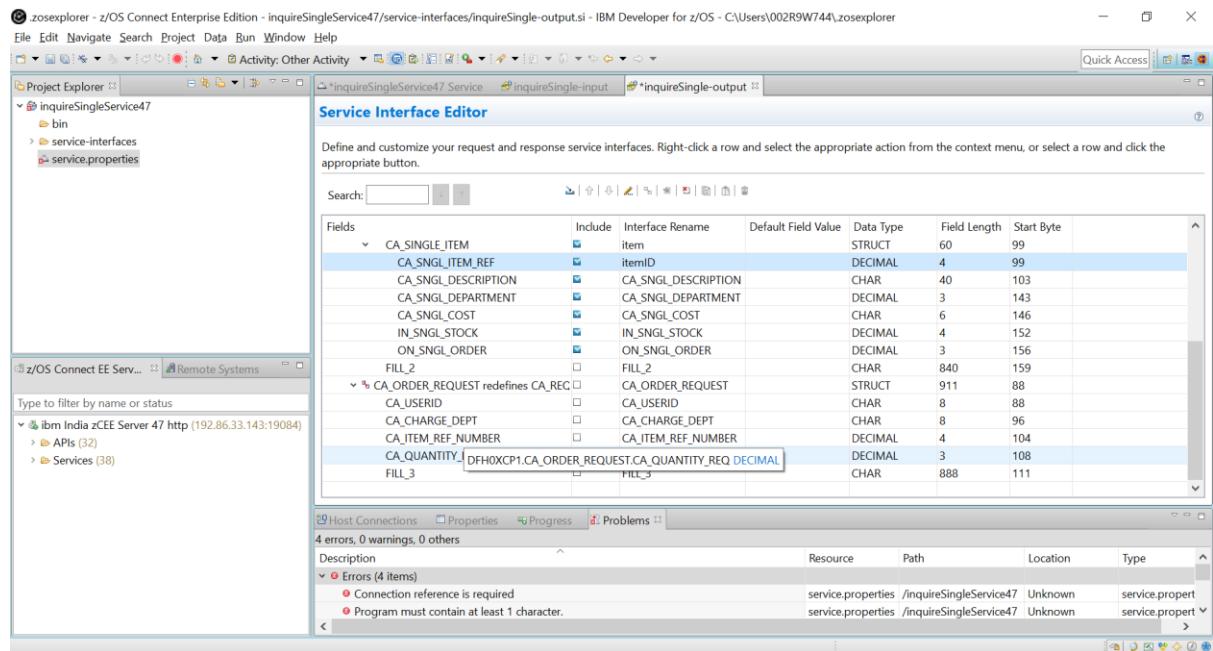
Define and customize your request and response service interfaces. Right-click a row and select the appropriate action from the context menu, or select a row and click the appropriate button.

Fields	Include	Interface Rename	Default Field Value	Data Type	Field Length	Start Byte
CA_INQUIRE_REQUEST redefines CA_REQ	<input type="checkbox"/>	CA_INQUIRE_REQUEST		STRUCT	911	88
CA_INQUIRE_SINGLE redefines CA_REQ	<input type="checkbox"/>	InquireSingle		STRUCT	911	88
CA_ITEM_REF_REQ	<input type="checkbox"/>	CA_ITEM_REF_REQ		DECIMAL	4	88
FILL_0	<input type="checkbox"/>	FILL_0		DECIMAL	4	92
FILL_1	<input type="checkbox"/>	FILL_1		DECIMAL	3	96
CA_SINGLE_ITEM	<input type="checkbox"/>	item		STRUCT	60	99
CA_SNGL_ITEM_REF	<input type="checkbox"/>	itemId		DECIMAL	4	99
CA_SNGL_DESCRIPTION	<input checked="" type="checkbox"/>	CA_SNGL_DESCRIPTION		CHAR	40	103
CA_SNGL_DEPARTMENT	<input checked="" type="checkbox"/>	CA_SNGL_DEPARTMENT		DECIMAL	3	143
CA_SNGL_COST	<input checked="" type="checkbox"/>	CA_SNGL_COST		CHAR	6	146
IN_SNGL_STOCK	<input checked="" type="checkbox"/>	IN_SNGL_STOCK		DECIMAL	4	152
ON_SNGL_ORDER	<input checked="" type="checkbox"/>	ON_SNGL_ORDER		DECIMAL	3	156
FILL_2	<input type="checkbox"/>	FILL_2		CHAR	840	159
CA_ORDER_REQUEST redefines CA_REC	<input type="checkbox"/>	CA_ORDER_REQUEST		STRUCT	911	88

Host Connections Properties Progress Problems

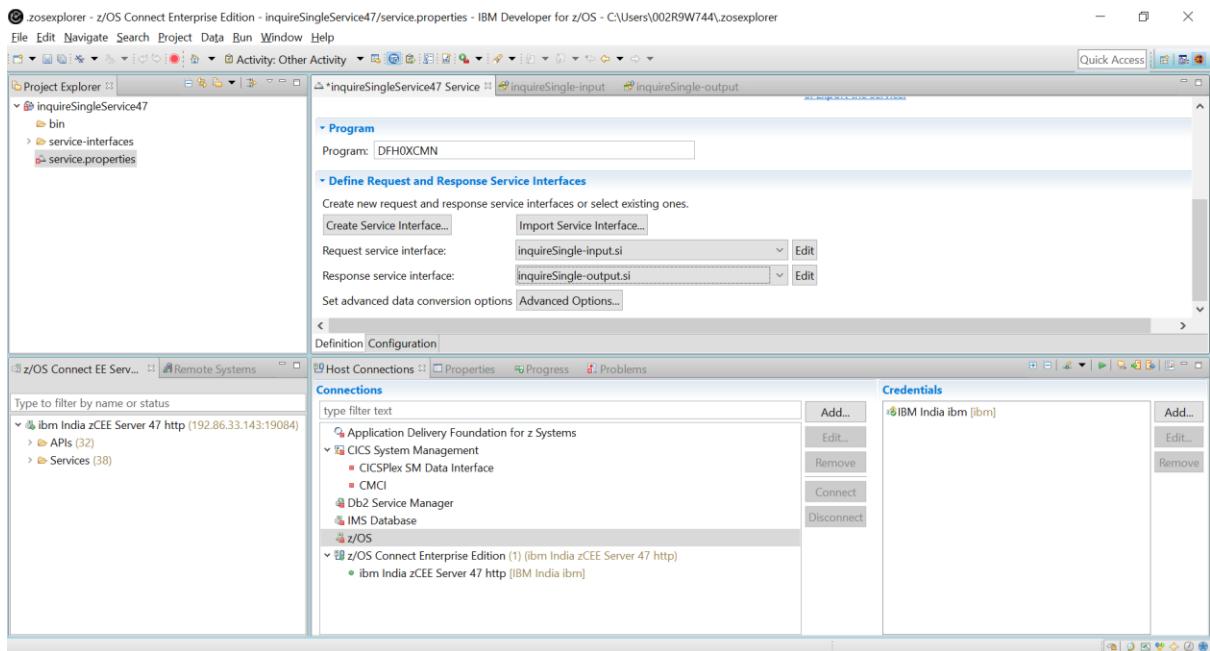
4 errors, 0 warnings, 0 others

Description	Resource	Path	Location	Type
Errors (4 items)				
Connection reference is required	service.properties	/inquireSingleService47	Unknown	service.property
Program must contain at least 1 character.	service.properties	/inquireSingleService47	Unknown	service.property



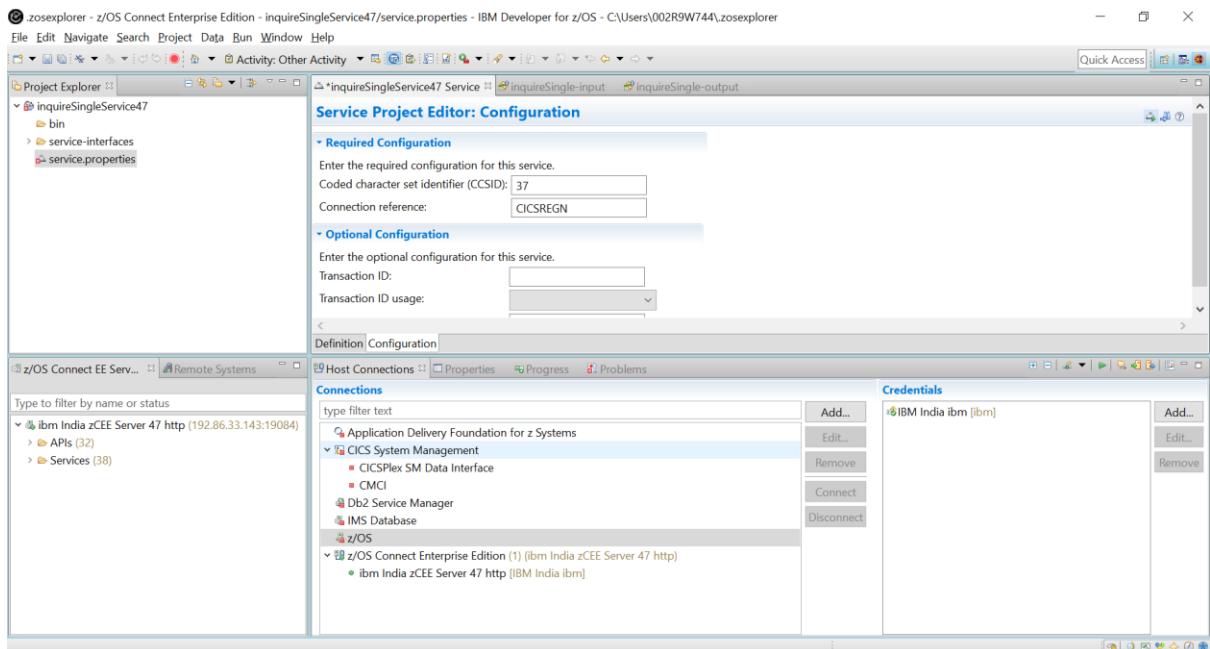
Go back to the inquireSingle Service tab.

Make sure that inquireSingle-input.si is used for "Request service interface" and inquireSingle-output.si is used for "Response service interface".



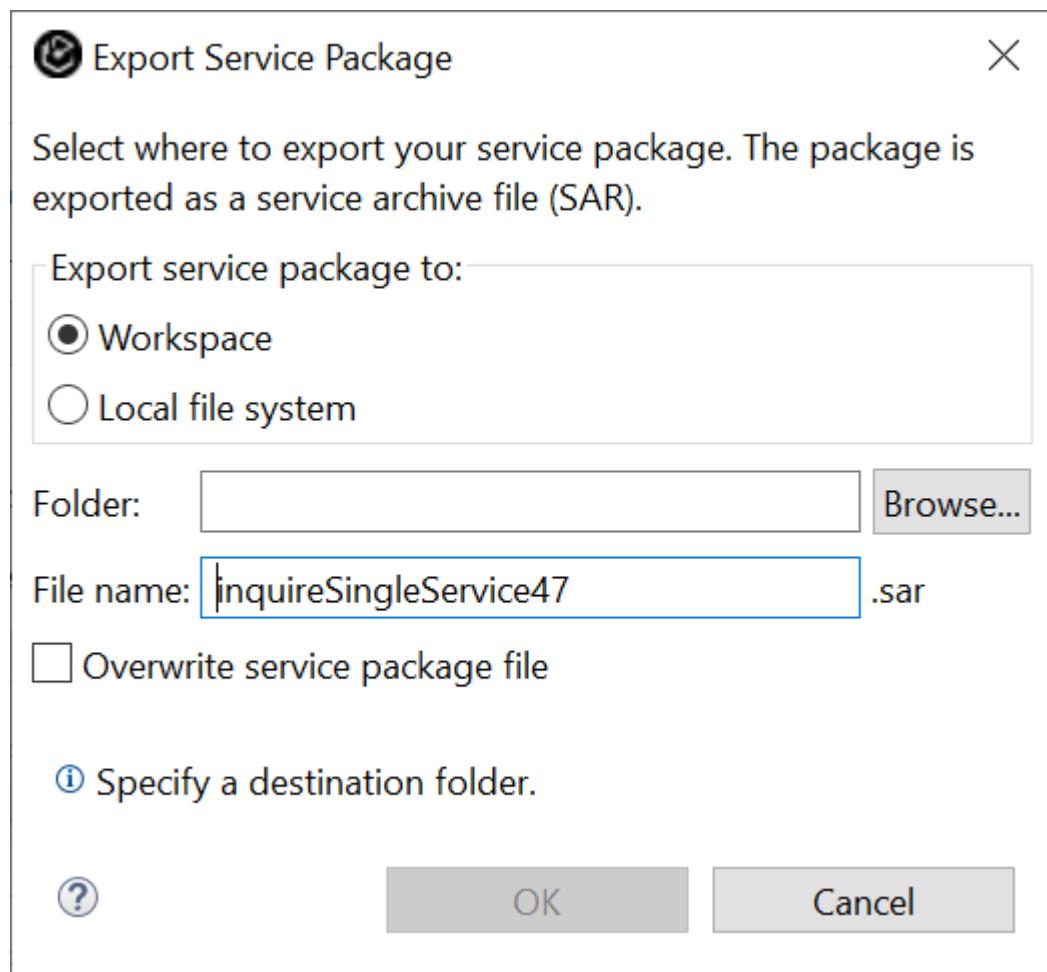
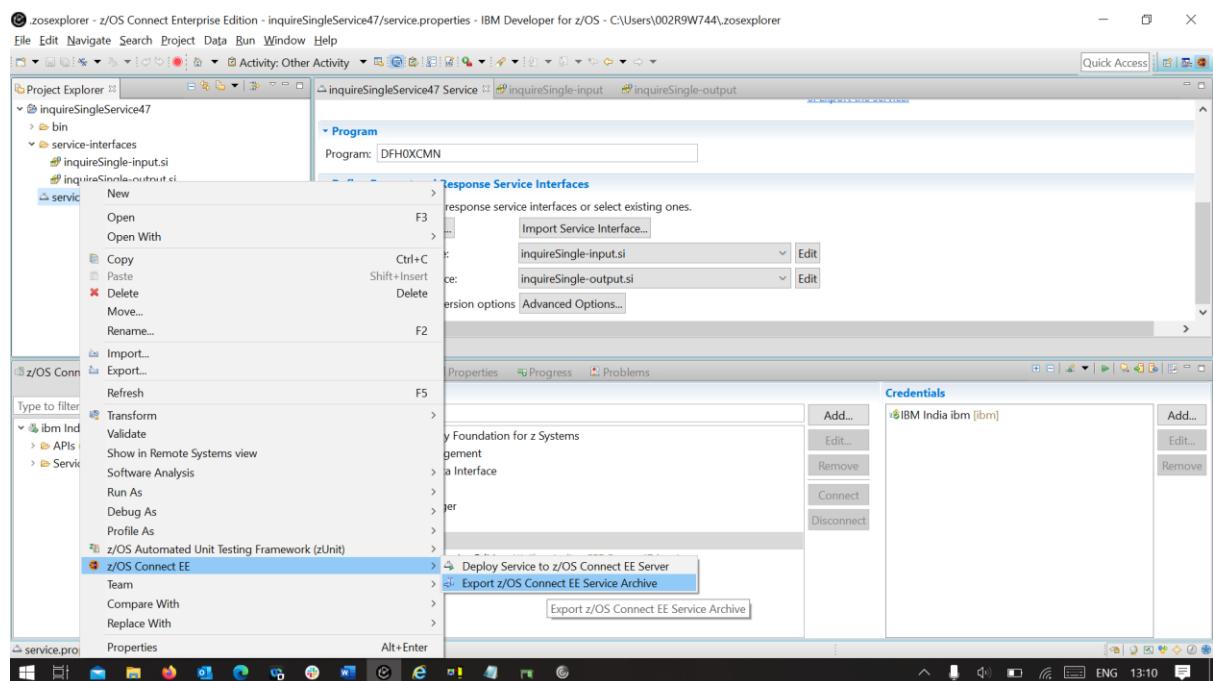
Specify the Connection reference that has been defined in the z/OS Connect EE instance:

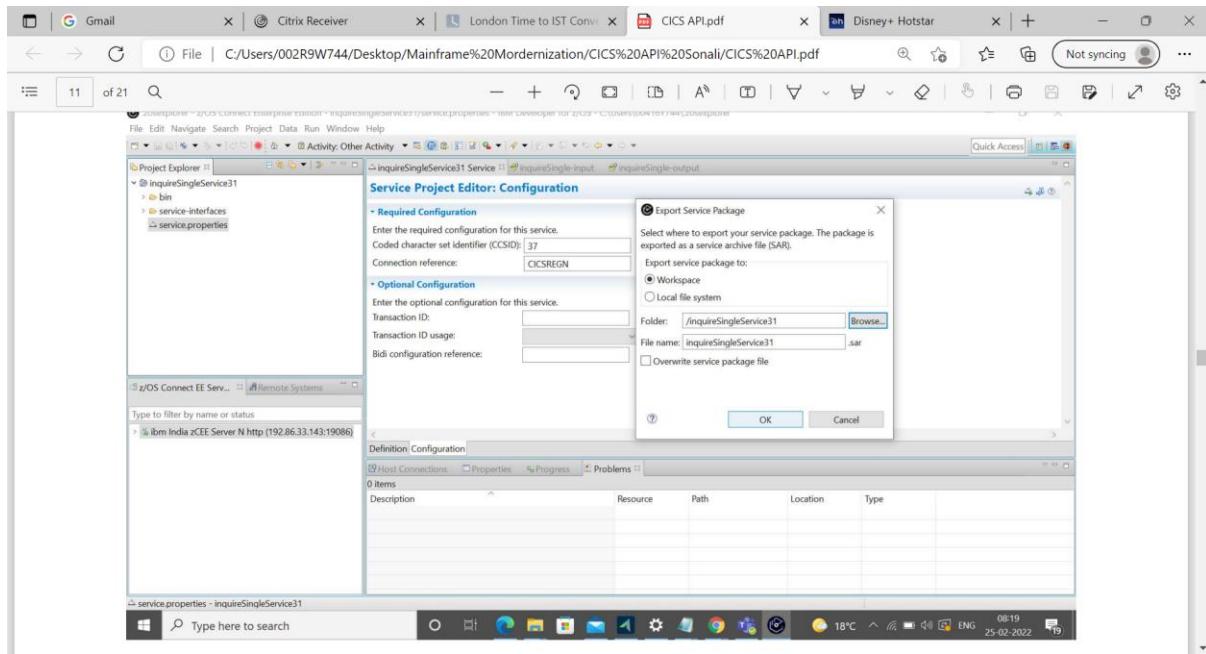
CICSREGN. This connection name is a logical name that represents the IPIC connection to a CICS region.



Now your service project is finished.

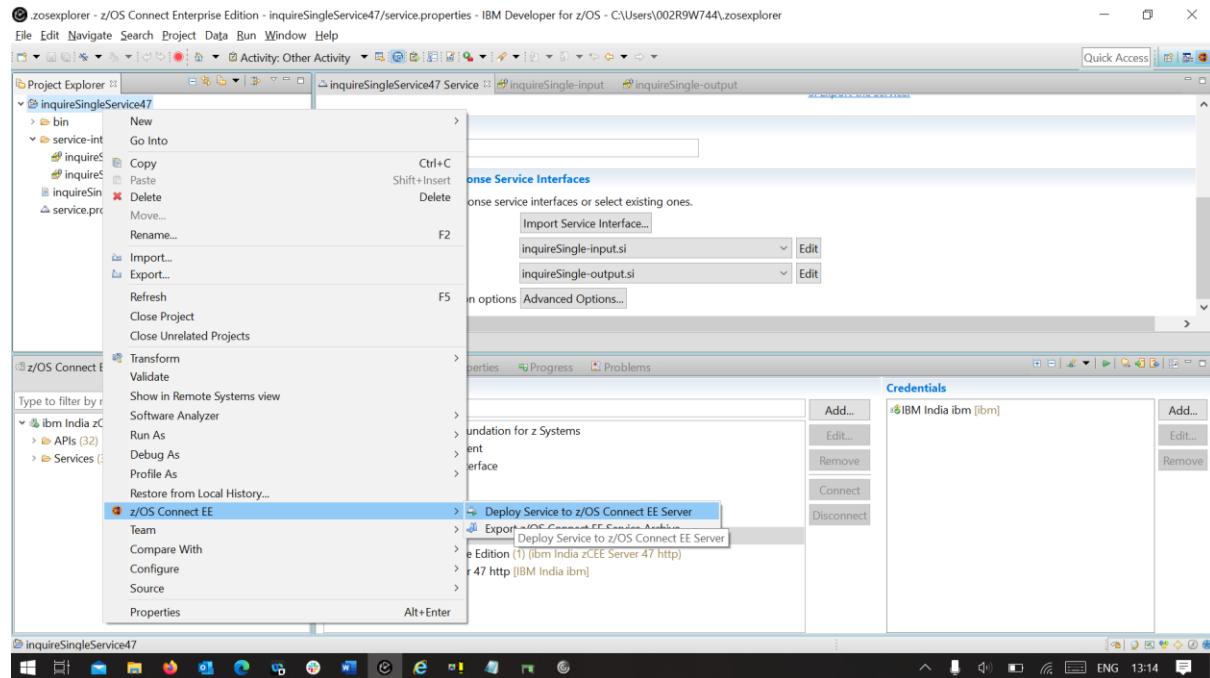
In order to generate the SAR file, that is the artefact to be deployed onto z/OS Connect EE, right-click on the project in the "Project Explorer", then z/OS Connect EE > Export z/OS Connect EE Service Archive

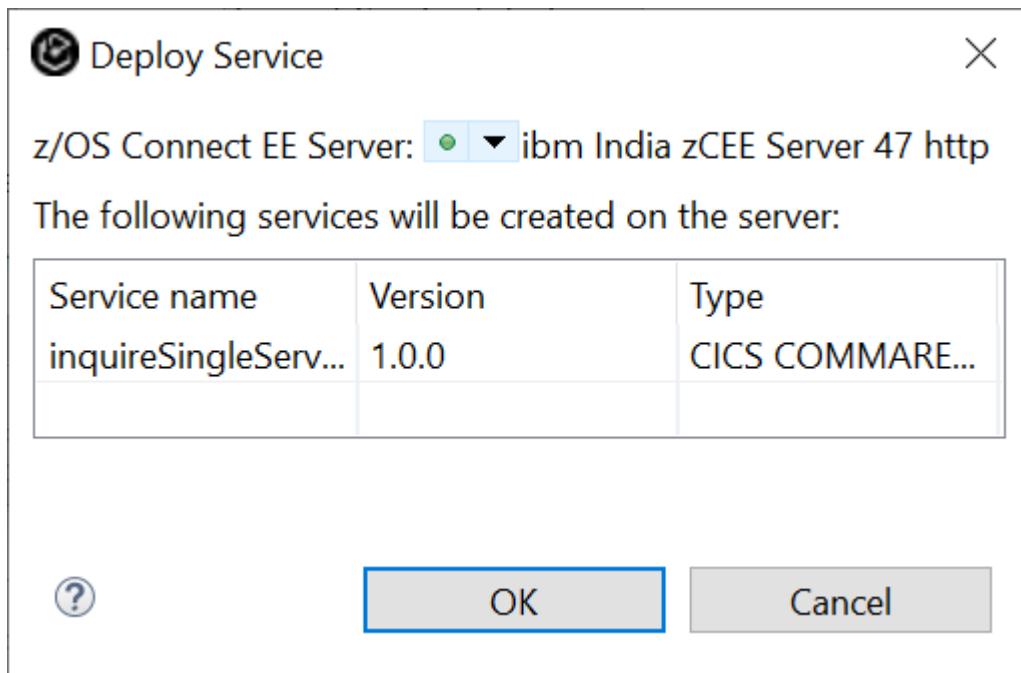




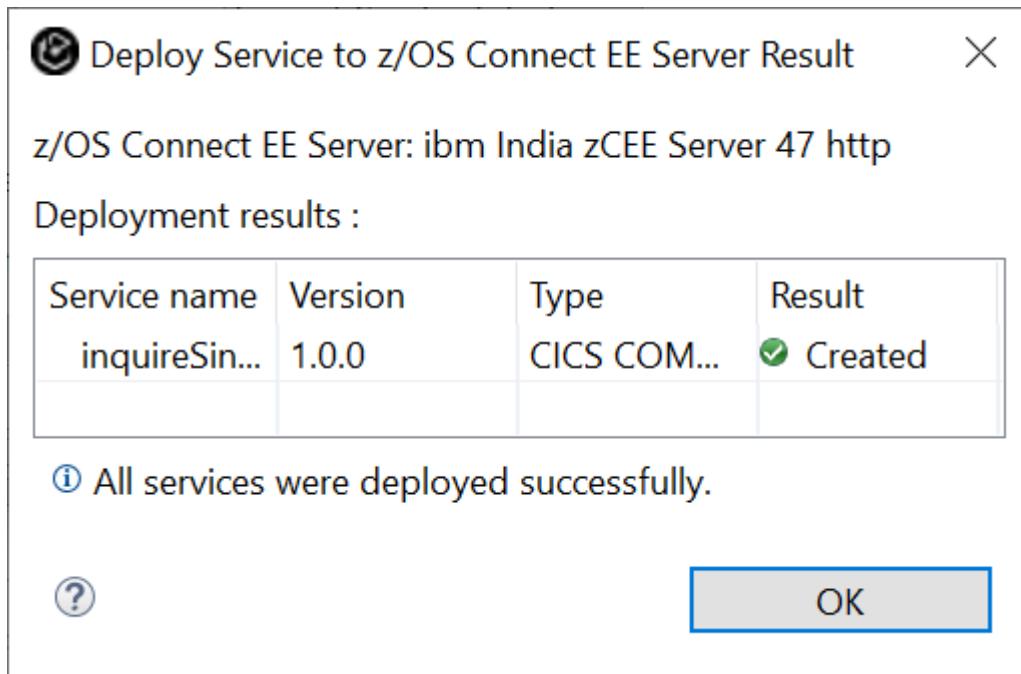
Deploy the SAR file to z/OS Connect EE.

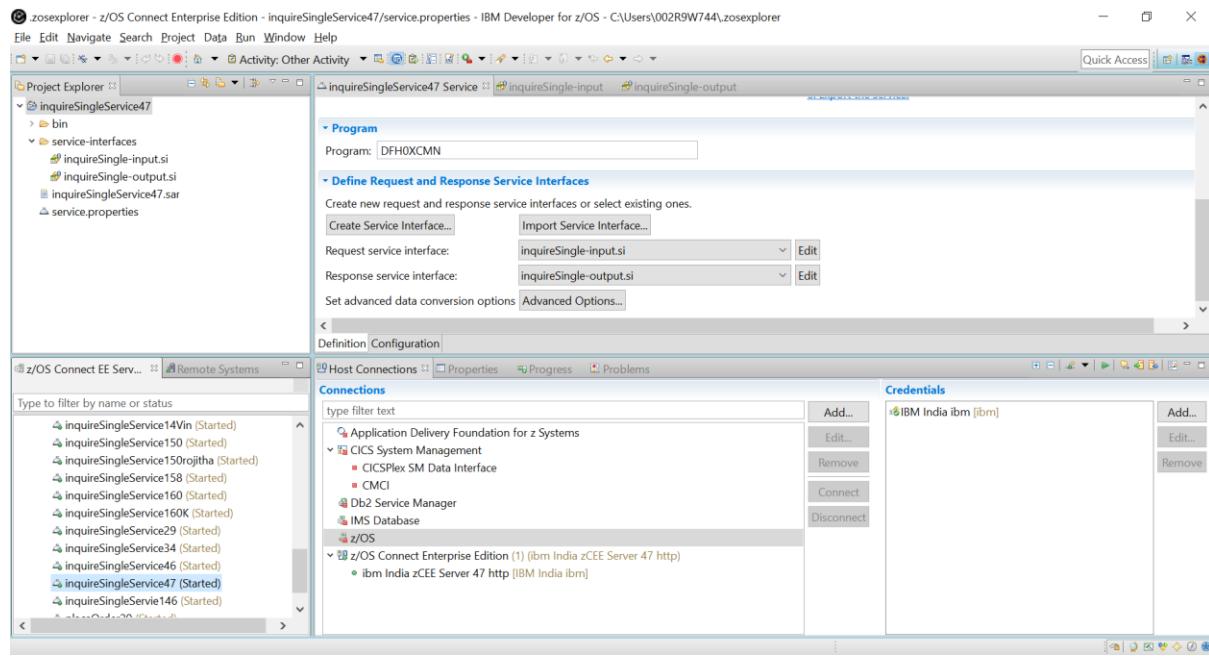
Right click on the inquireSingleServiceN project, then click on z/OS Connect EE and select 'Deploy Service to z/OS Connect EE Server' as shown below





Click OK and the SAR file is transferred from your PC to the zCEE server on the z/OS LPAR and window similar to this will be displayed:

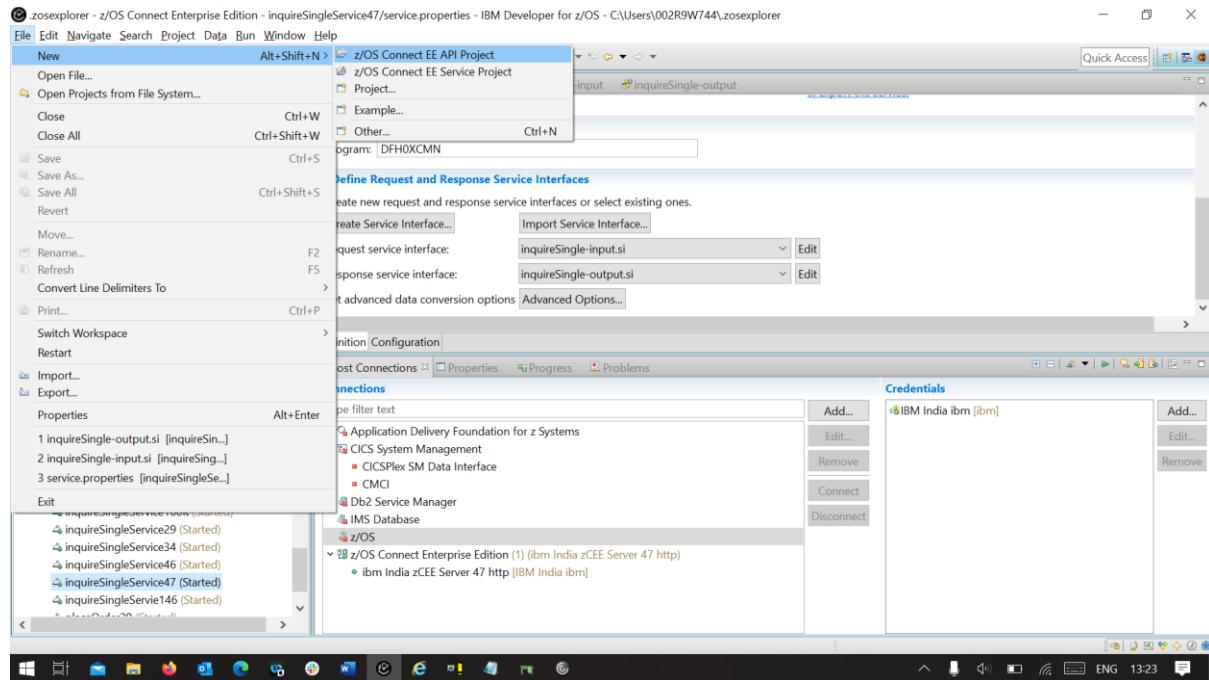


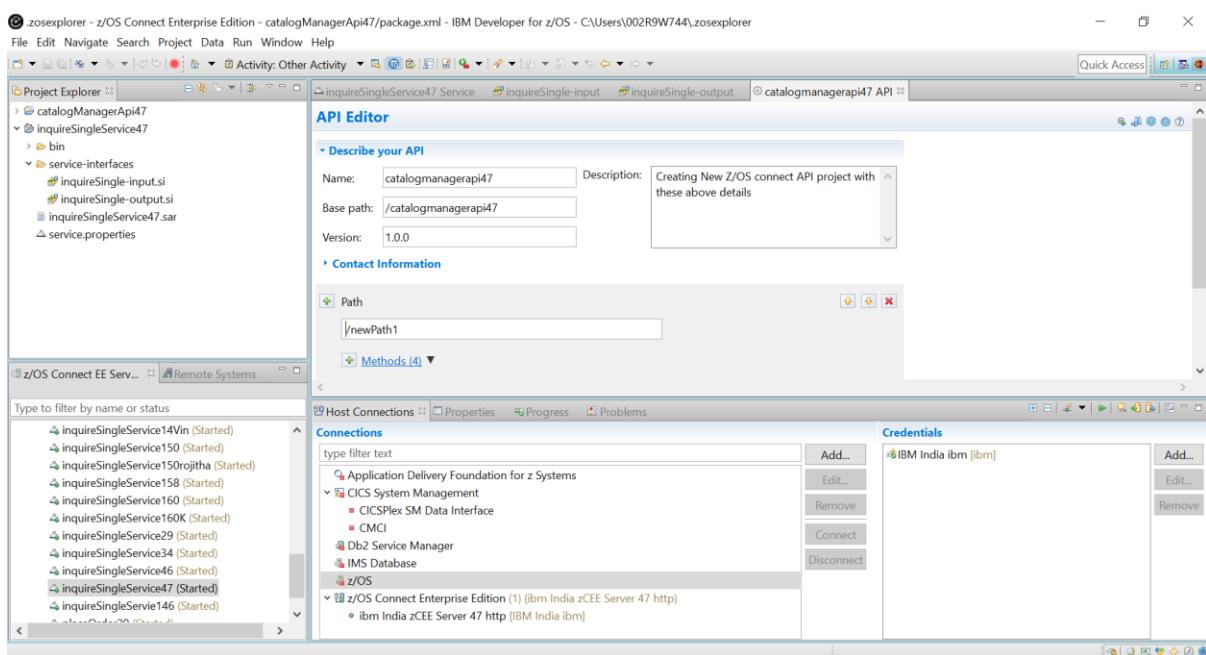
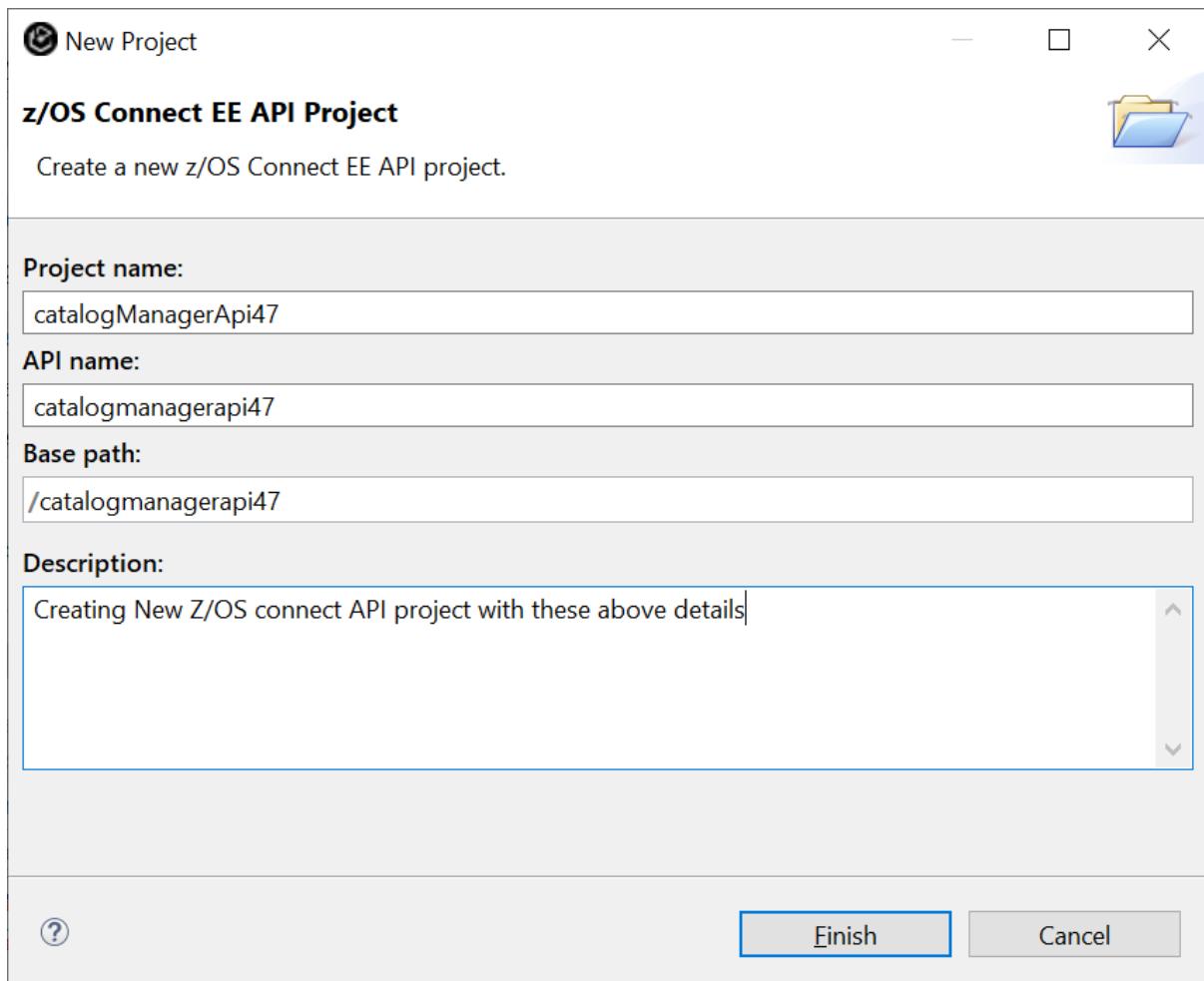


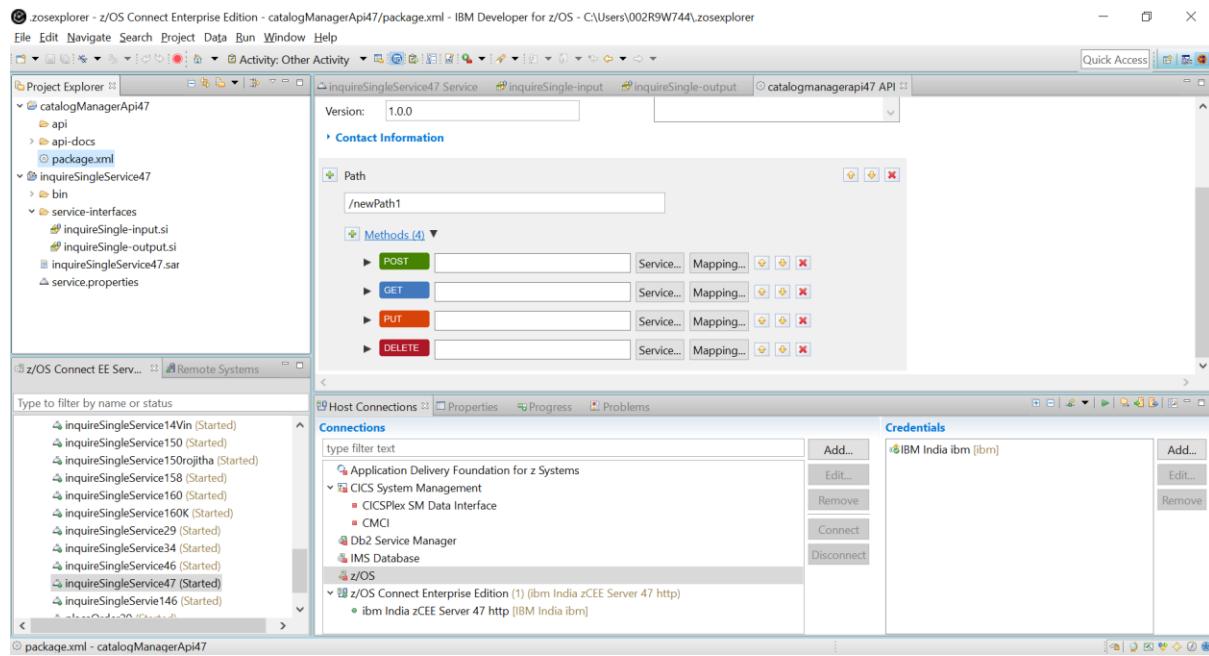
Create team API • Create a z/OS Connect project

Create a z/OS Connect project

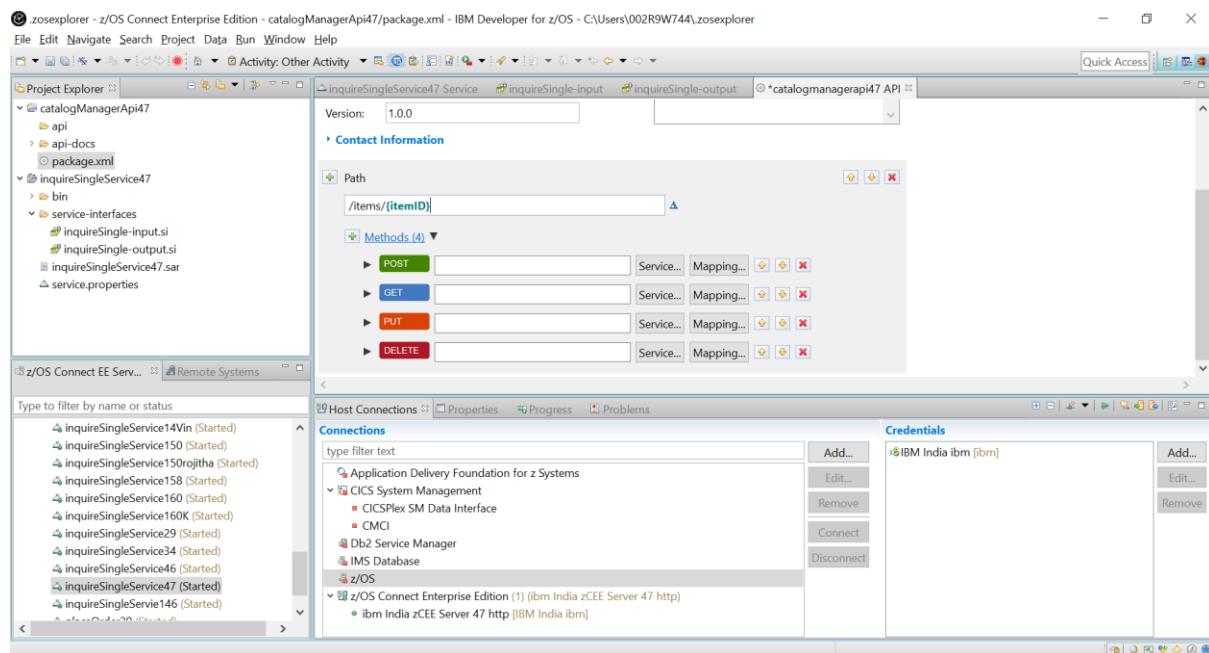
Create a new project, File > New > z/OS Connect EE API Project



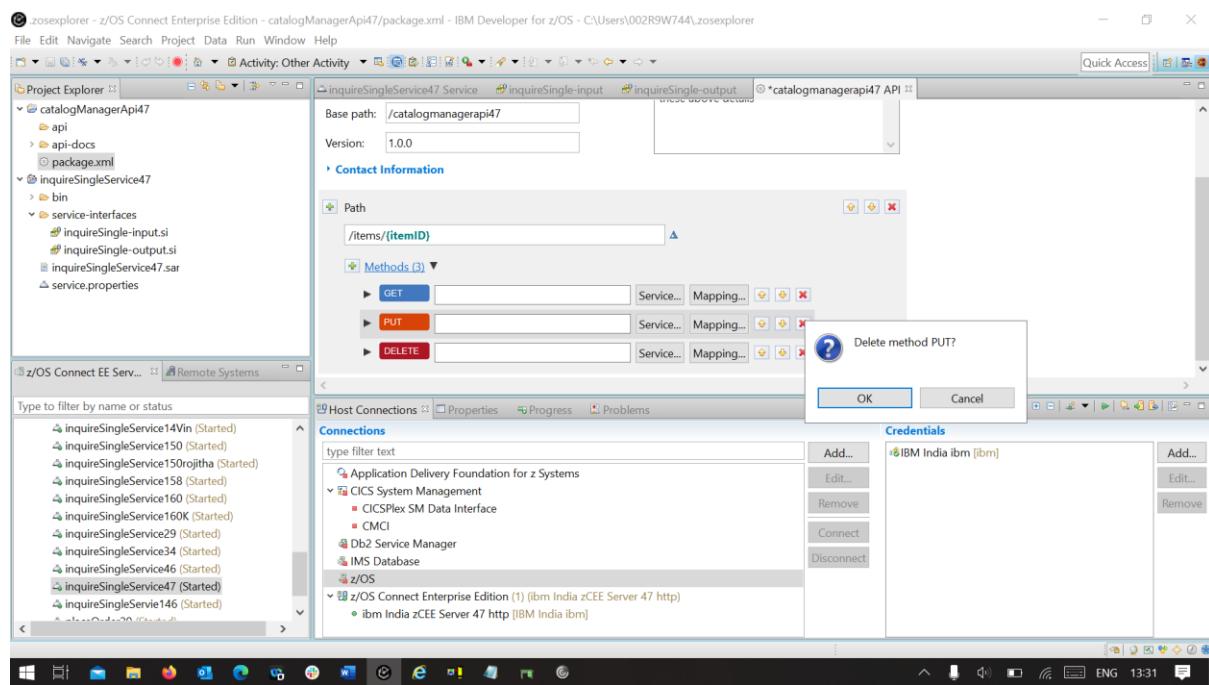
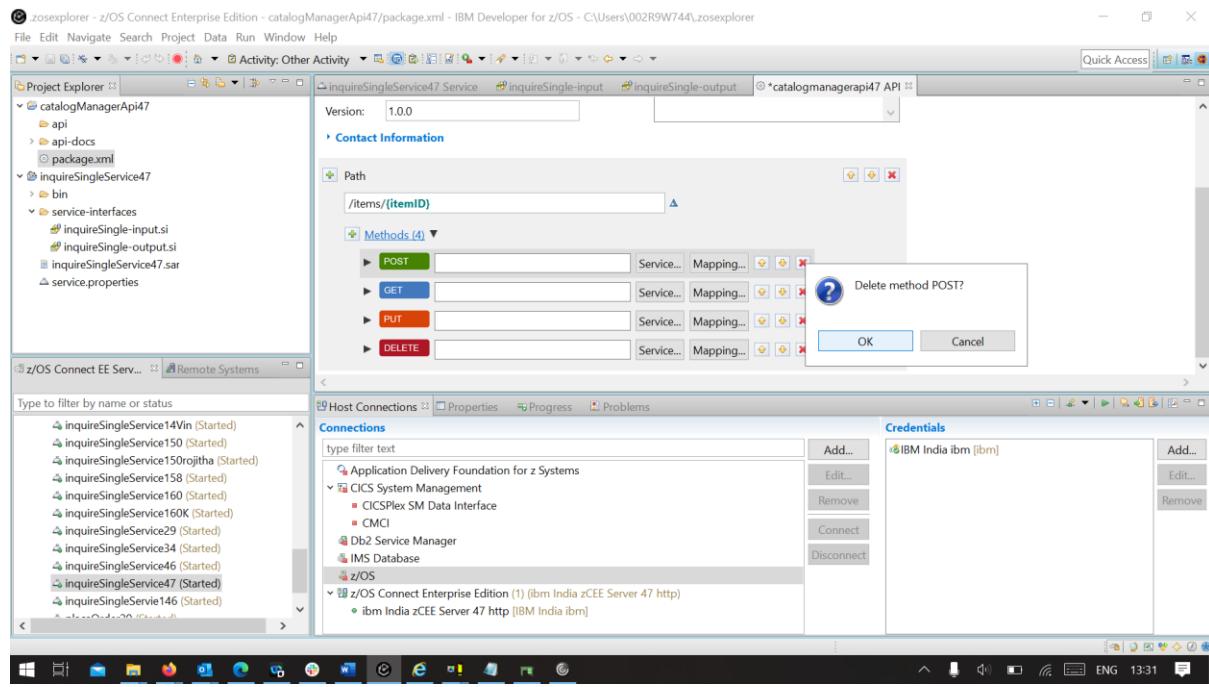


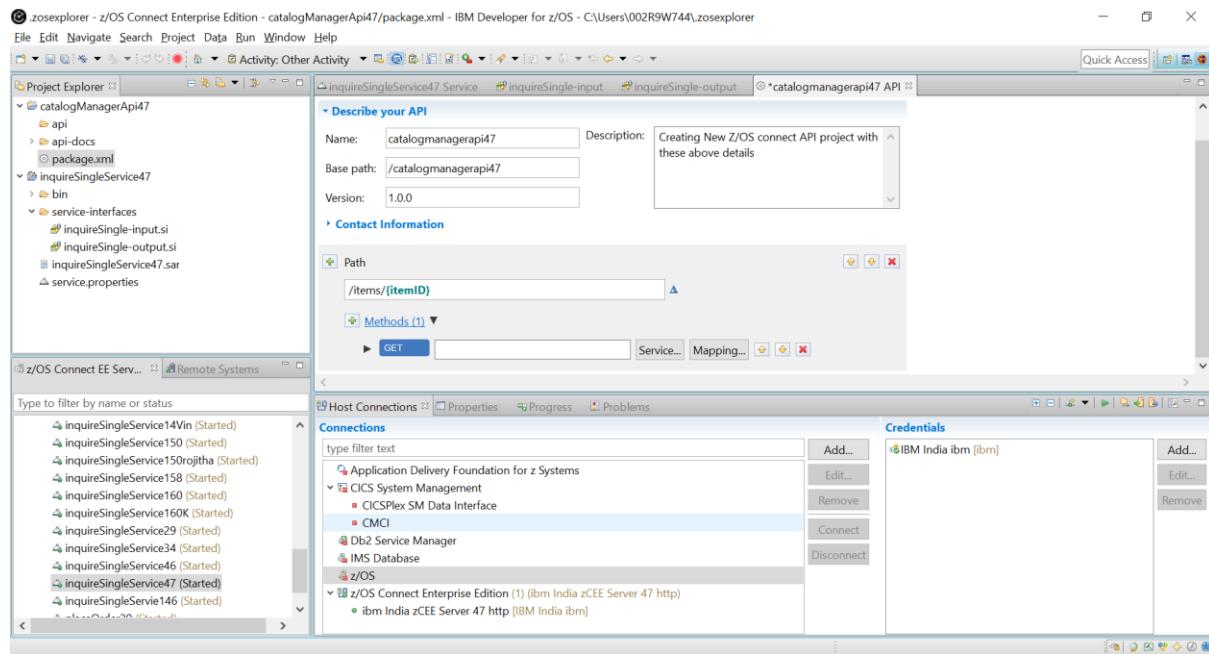


In the package.xml (in the API project), provide a path of /items/{itemID}

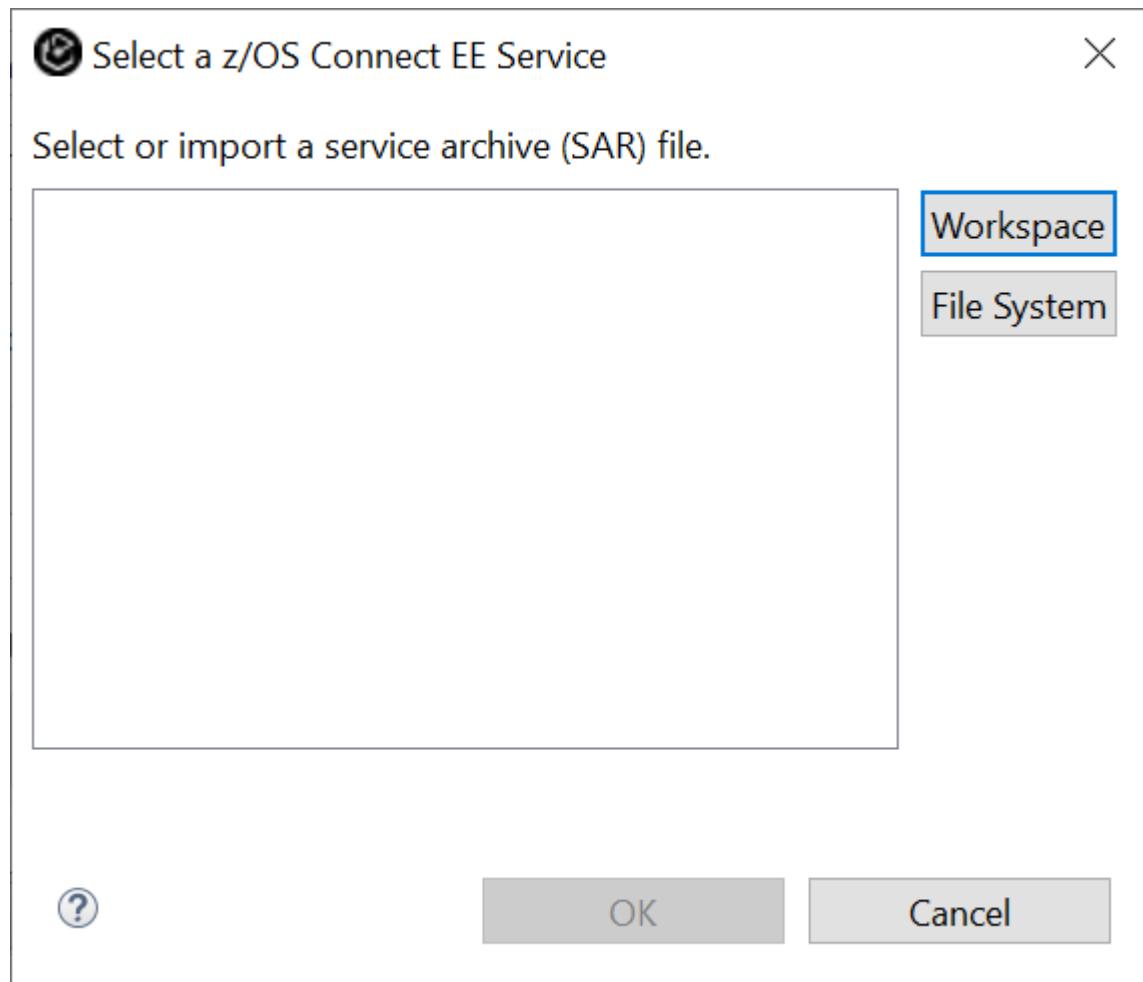


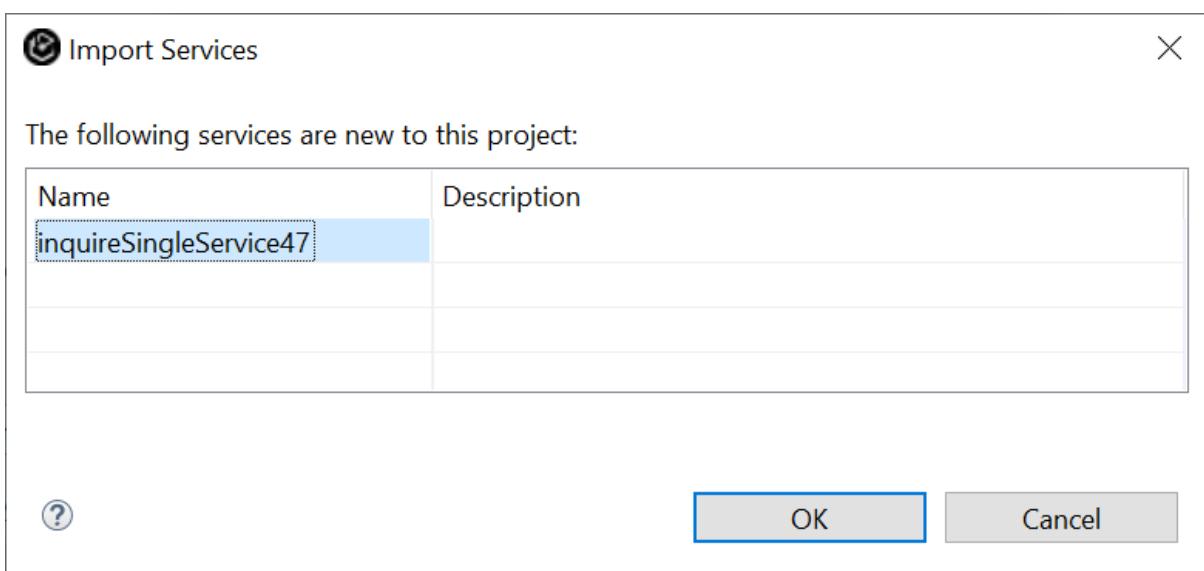
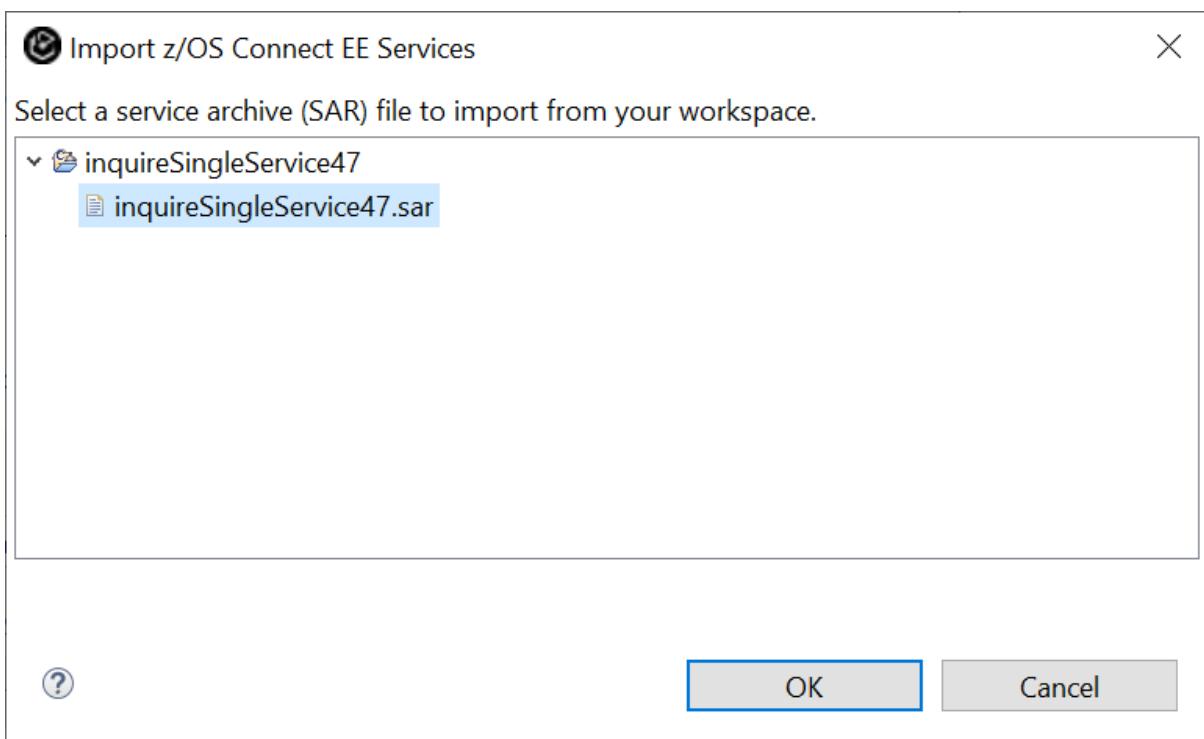
The method planned for the path to get the details of an item is GET, so the other methods can be removed from the view. Click the X symbol for POST, PUT and DELETE so that you are left with a single method:

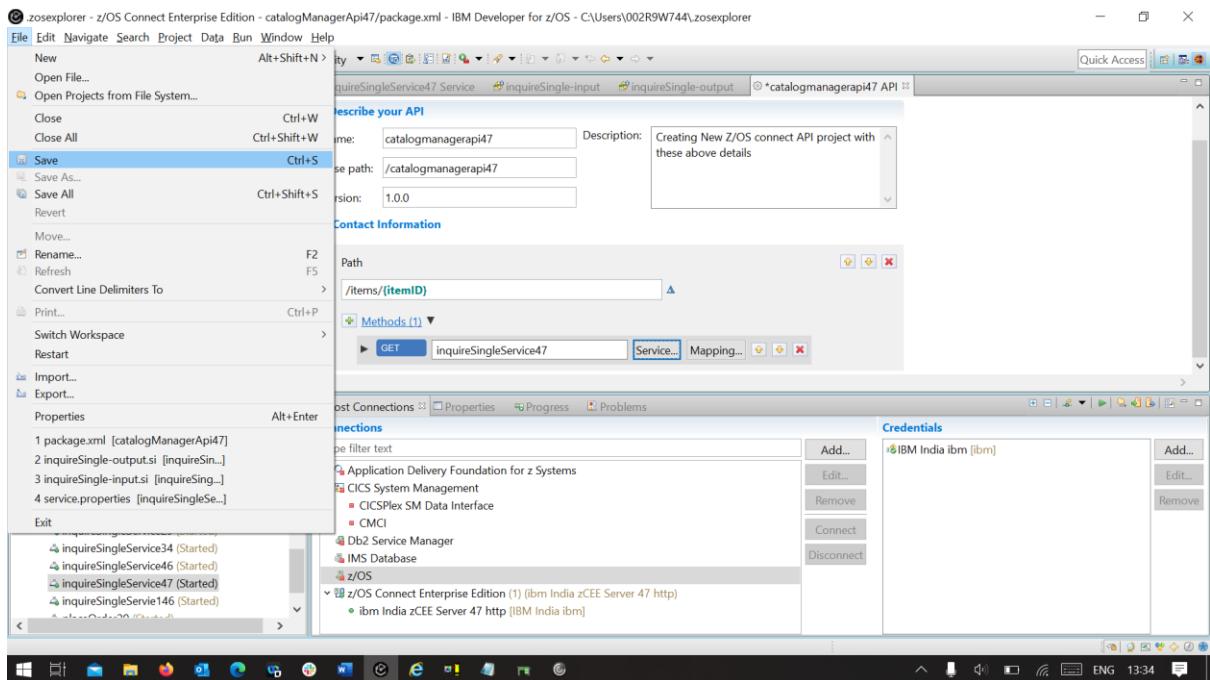




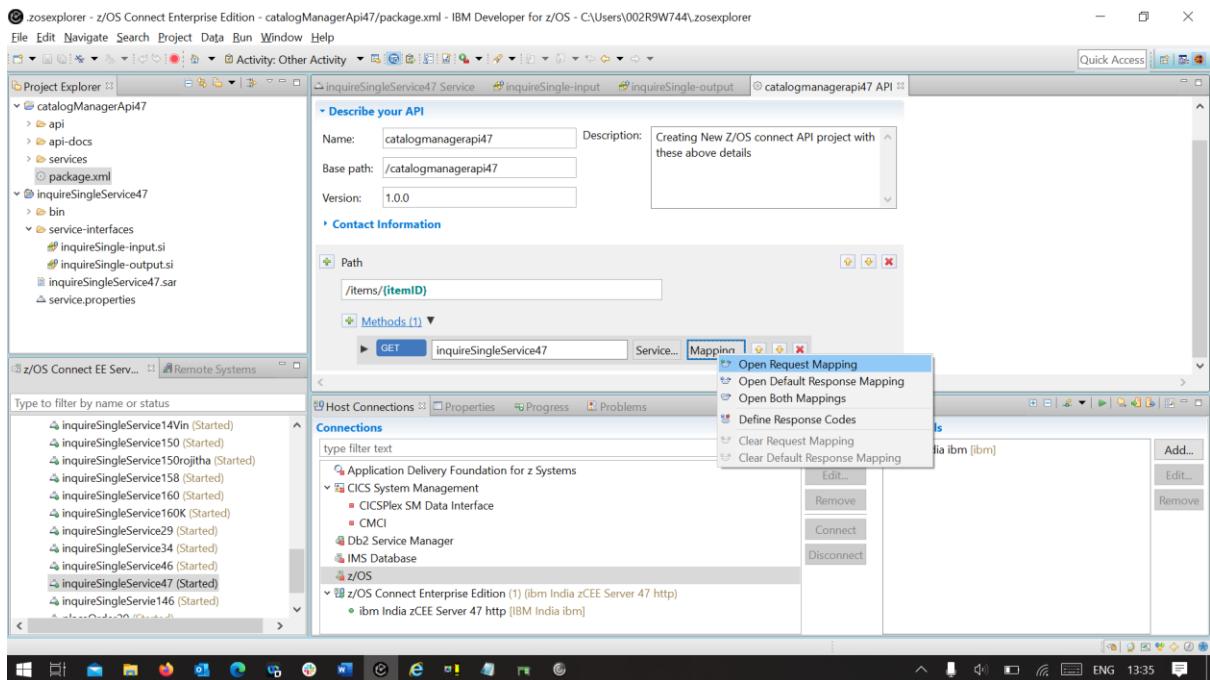
Click the "Service" button, select to import the SAR file from the Workspace and look for the inquireSingleServiceN SAR file

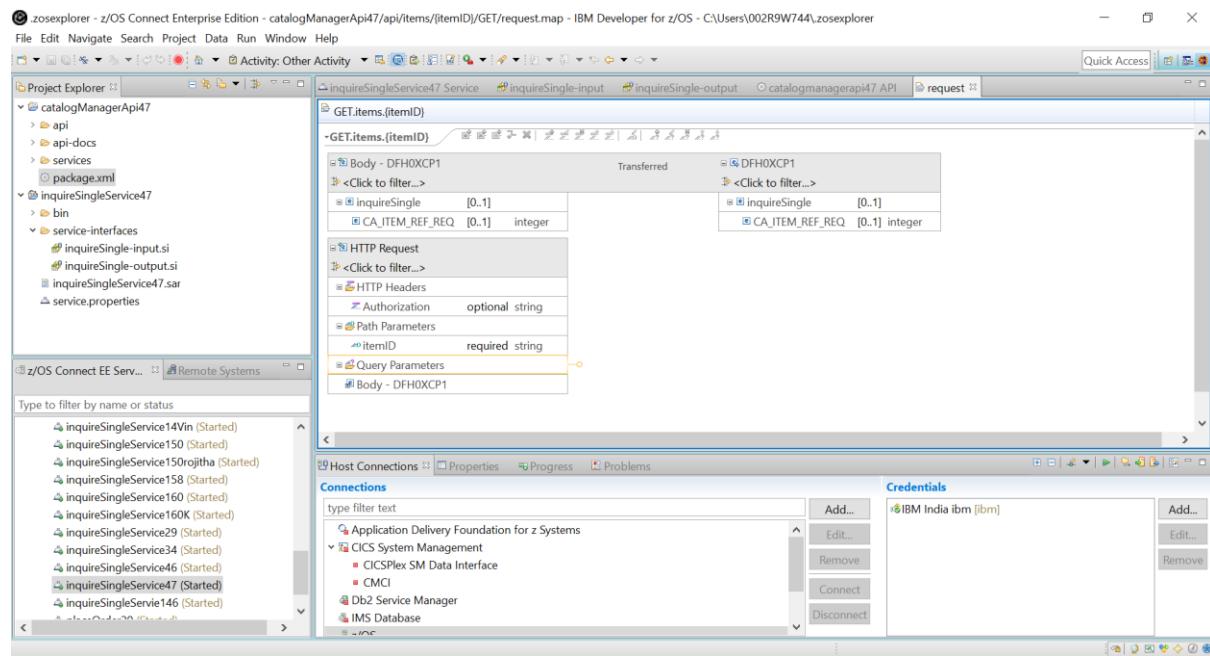
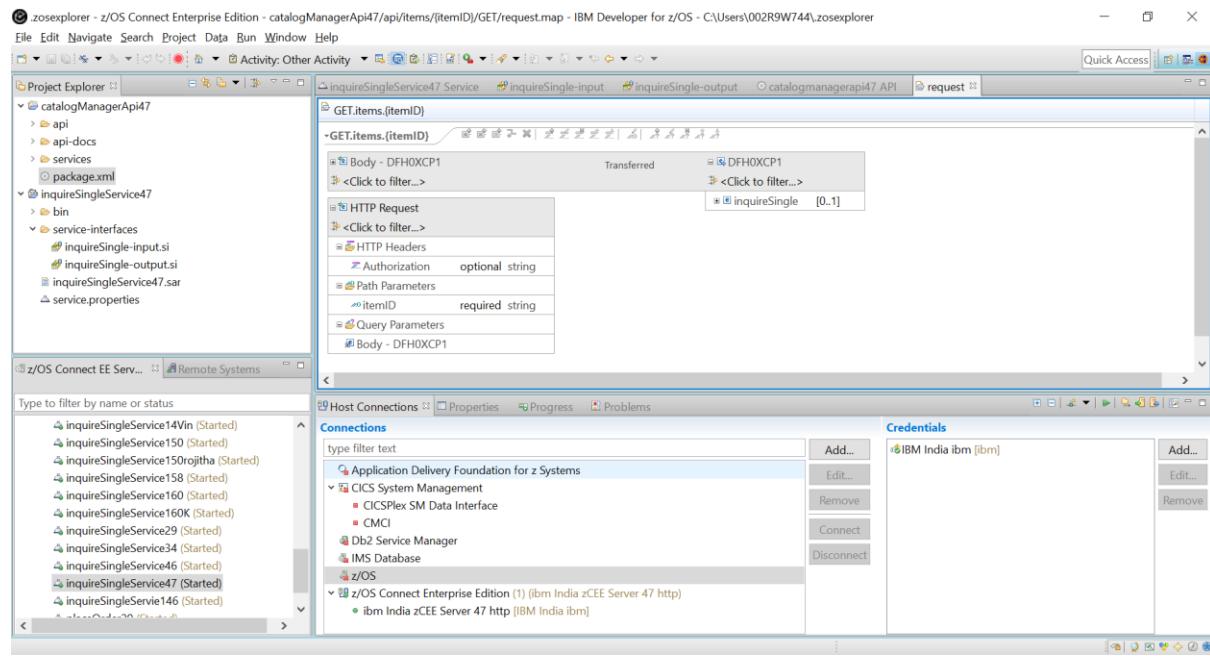




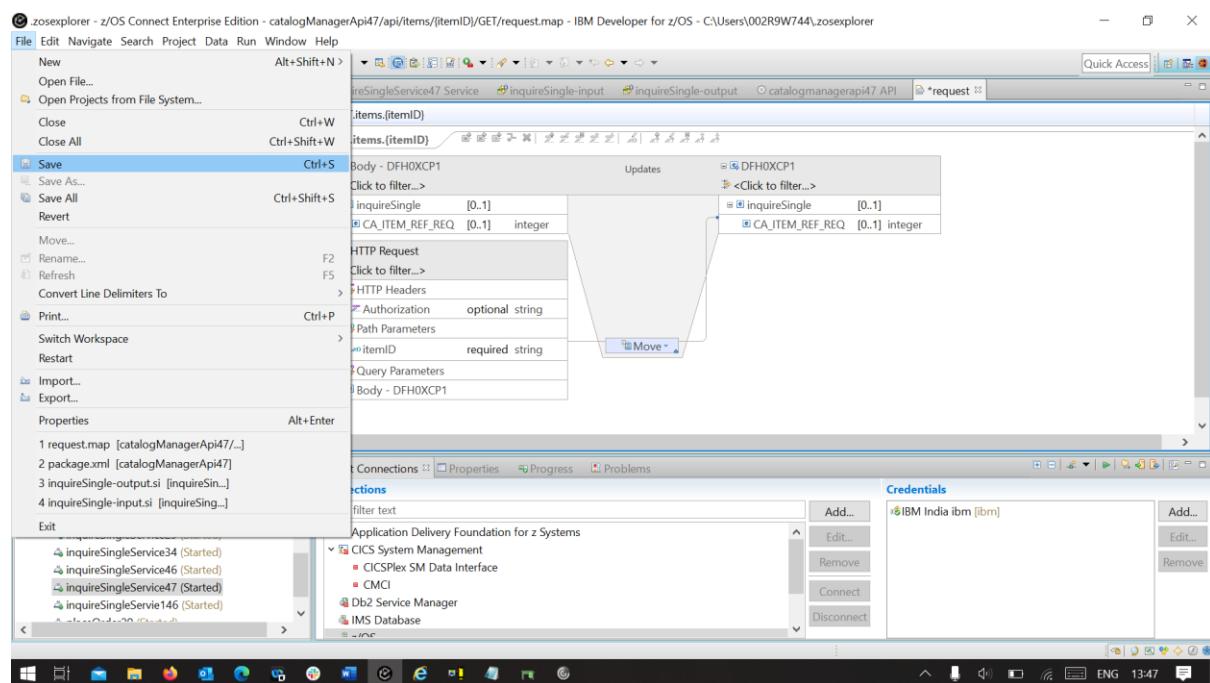
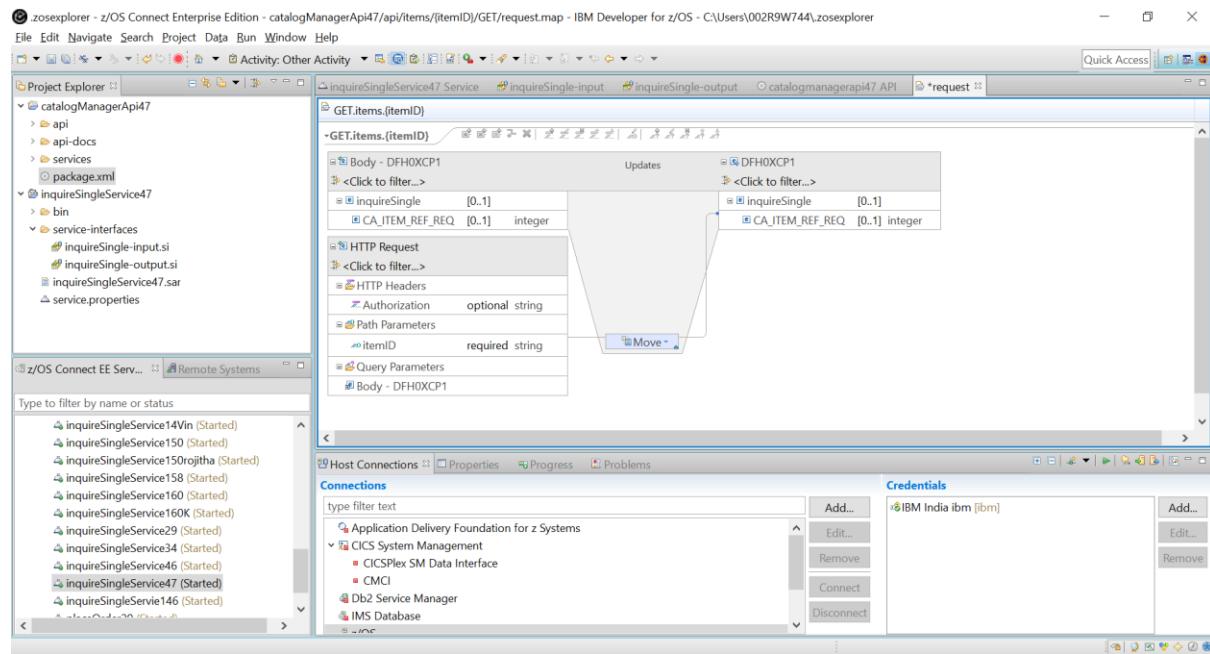


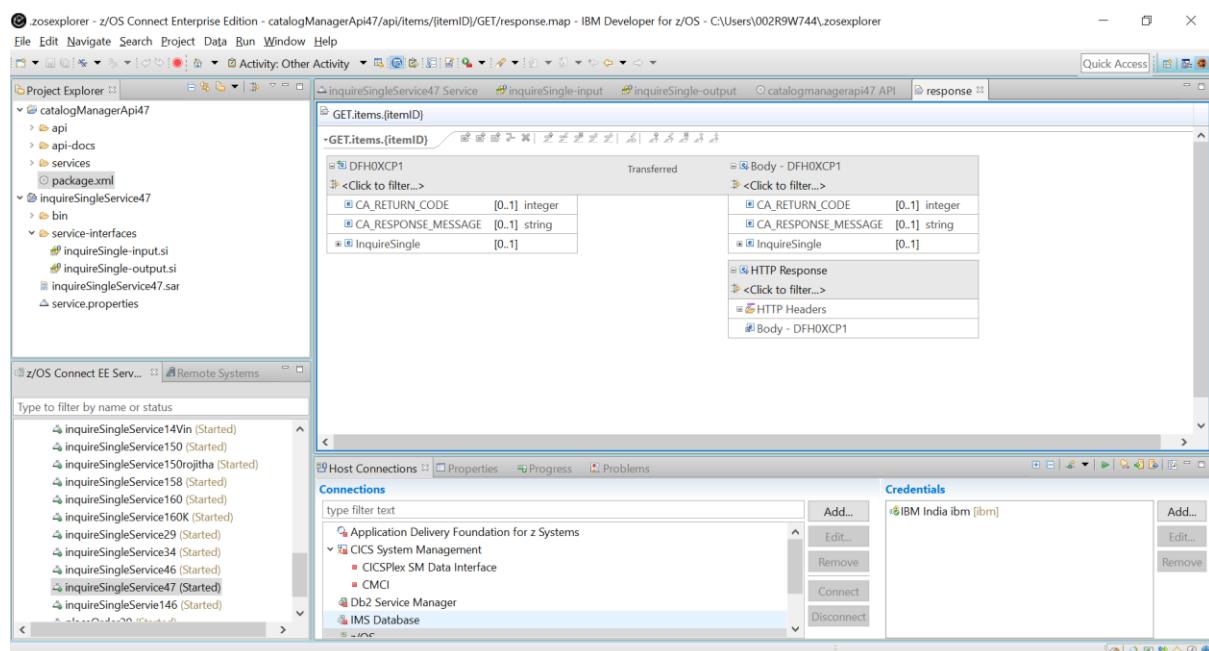
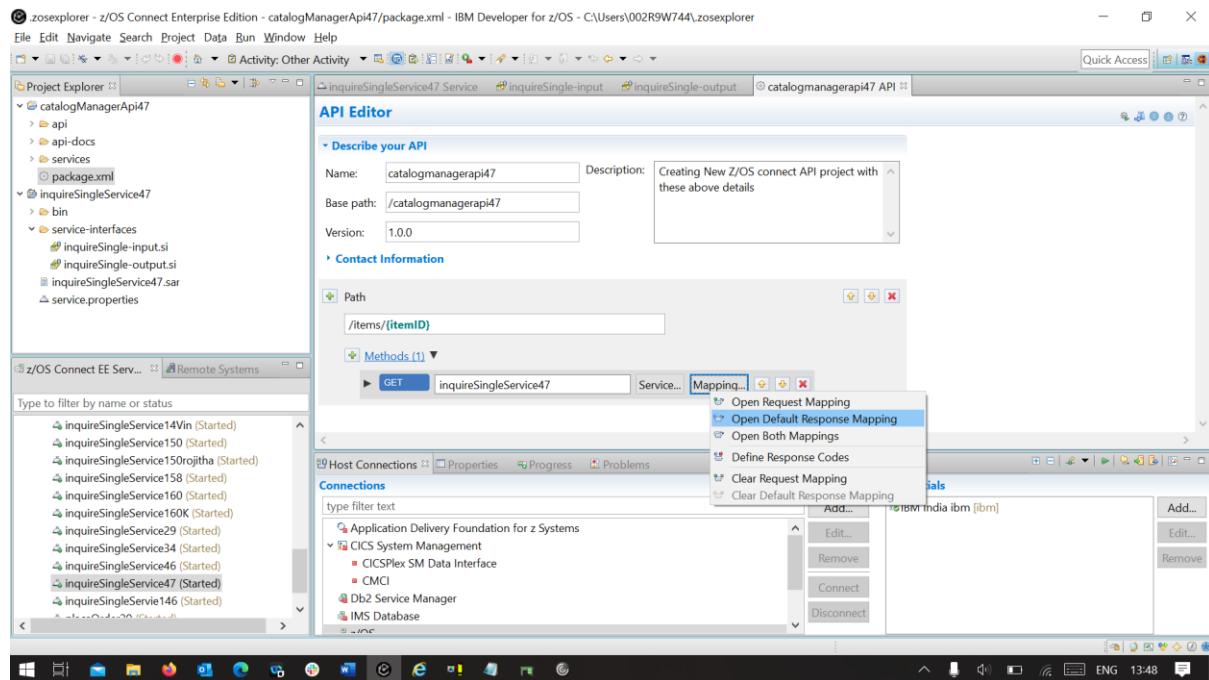
Define the request mapping

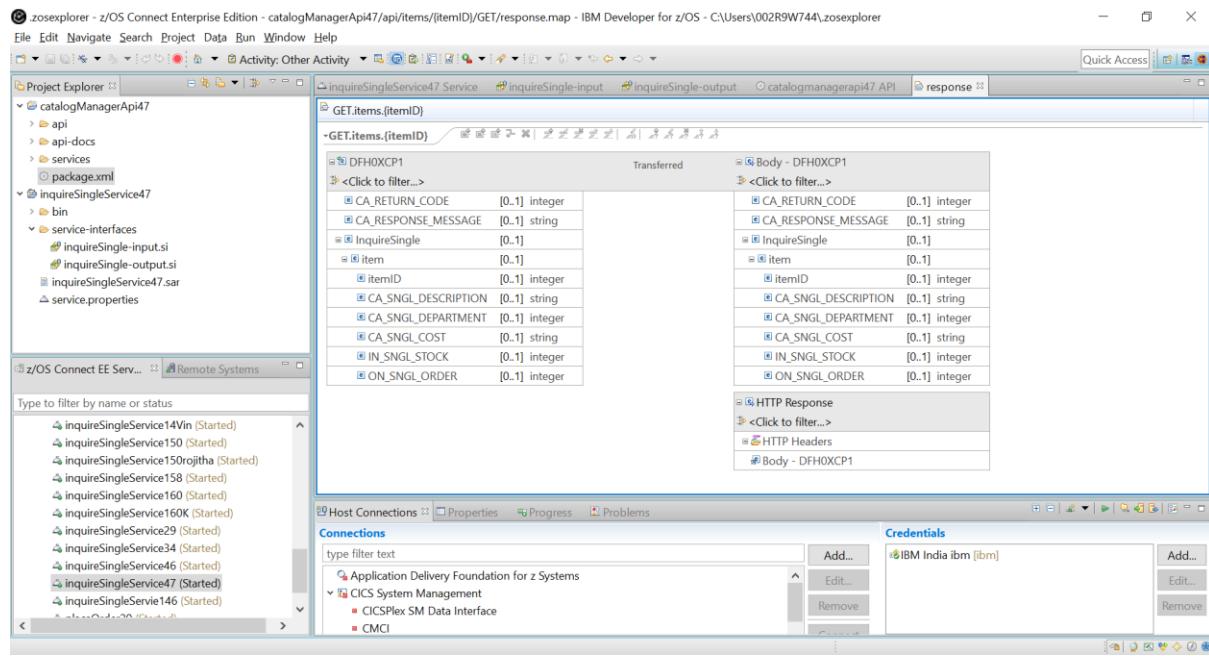




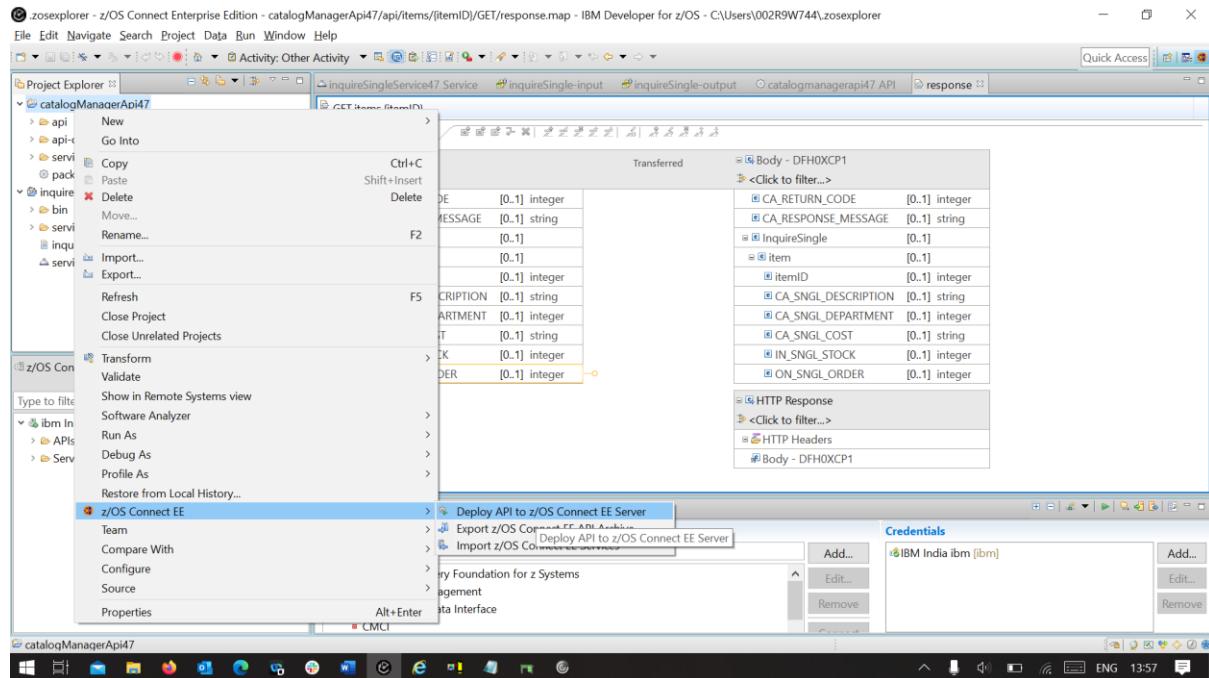
Define the request mapping and response Mapping

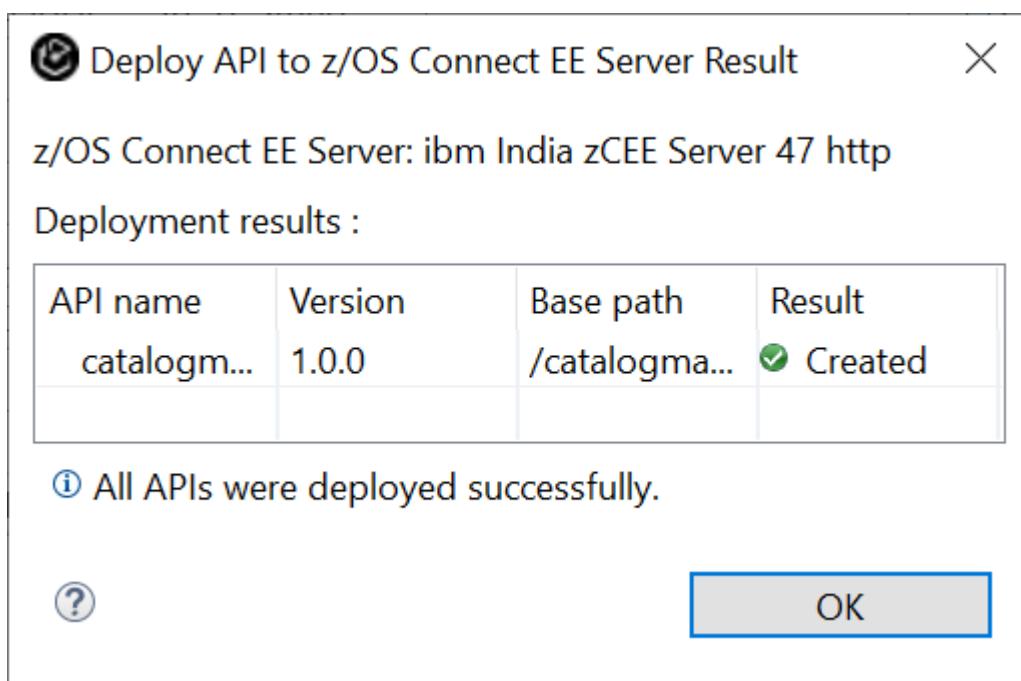
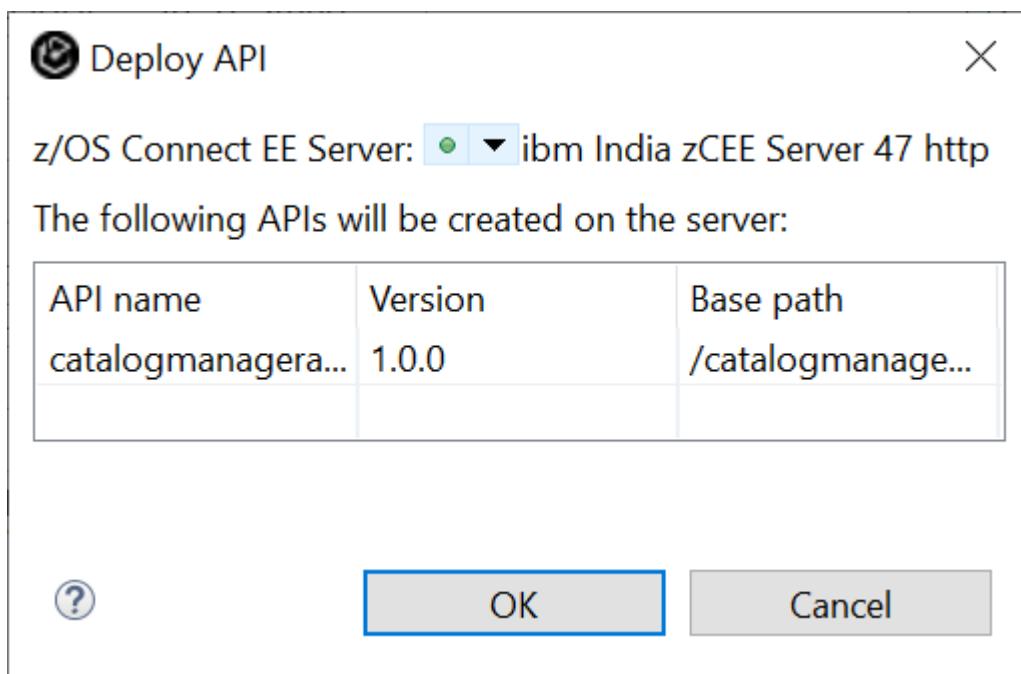




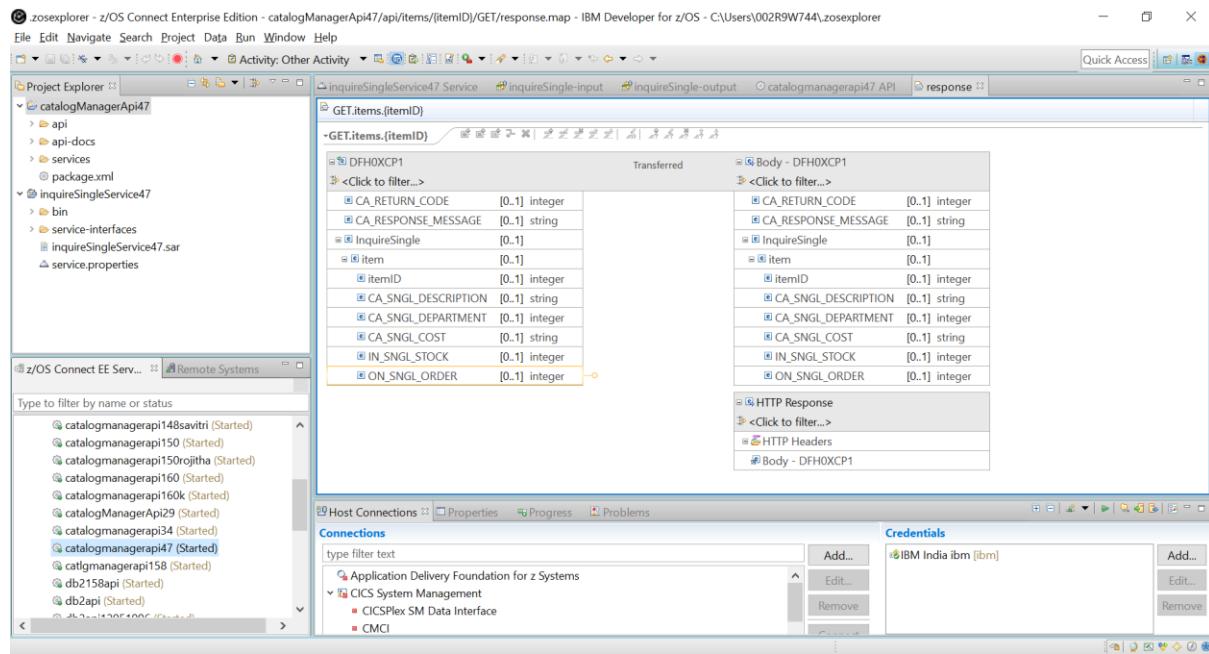


Deploy team API – Now we are deploying API which was created earlier(single path for inquiring on an item in the catalog

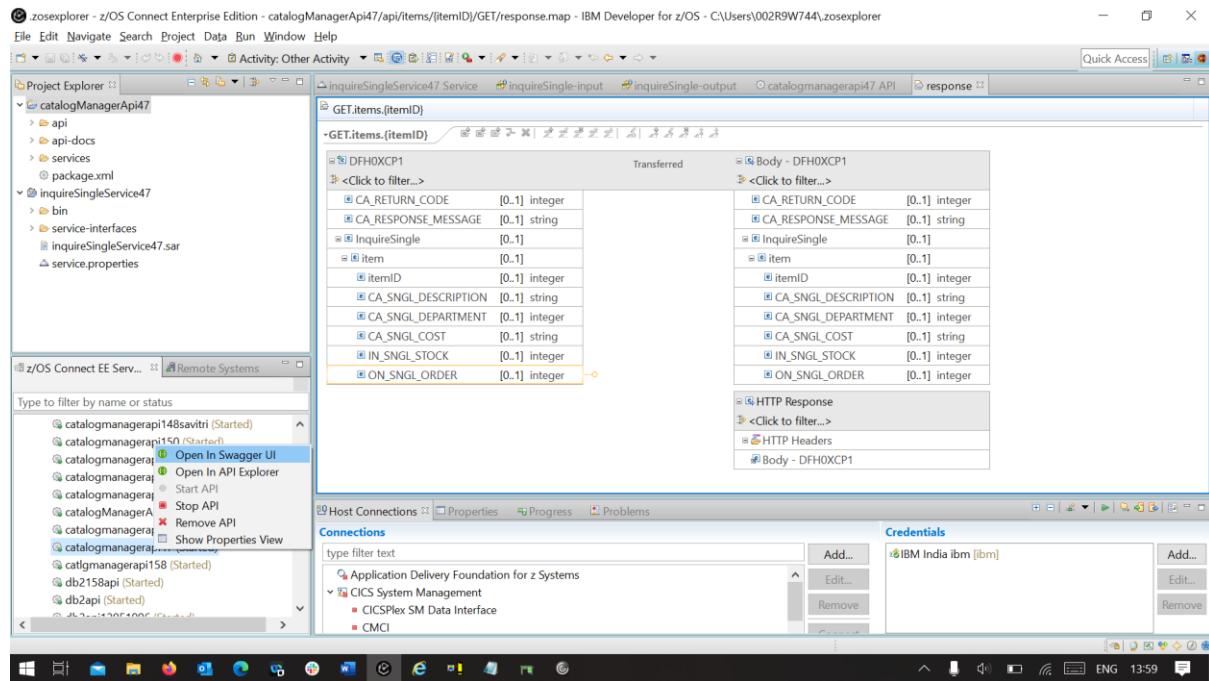




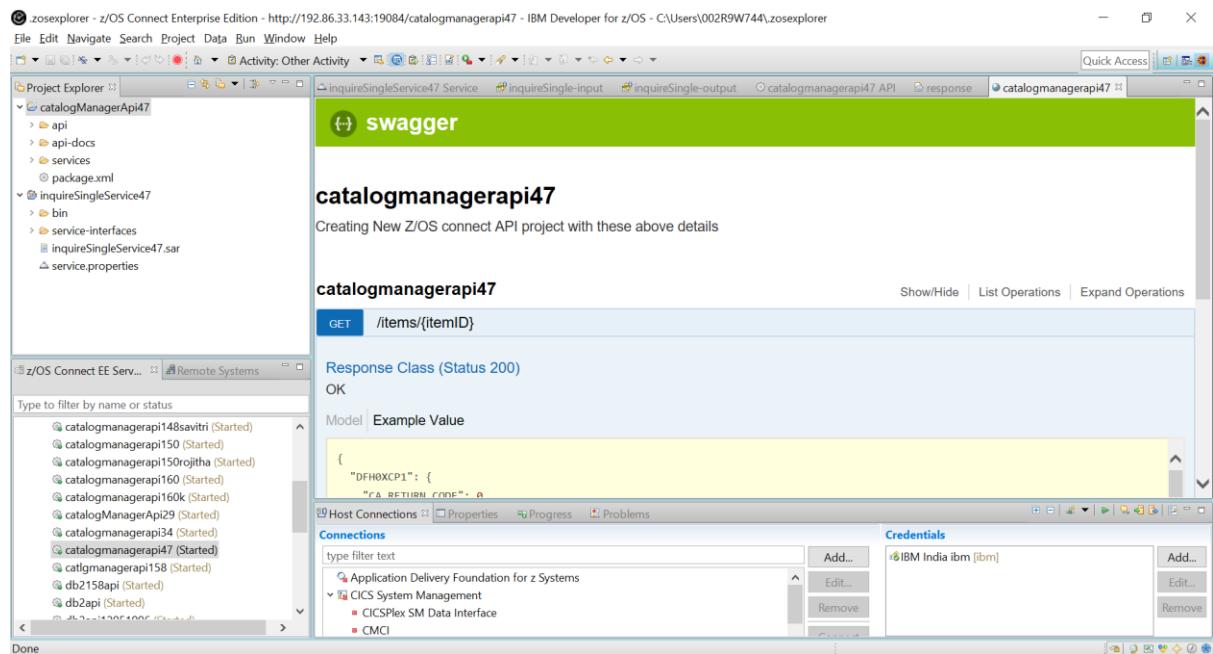
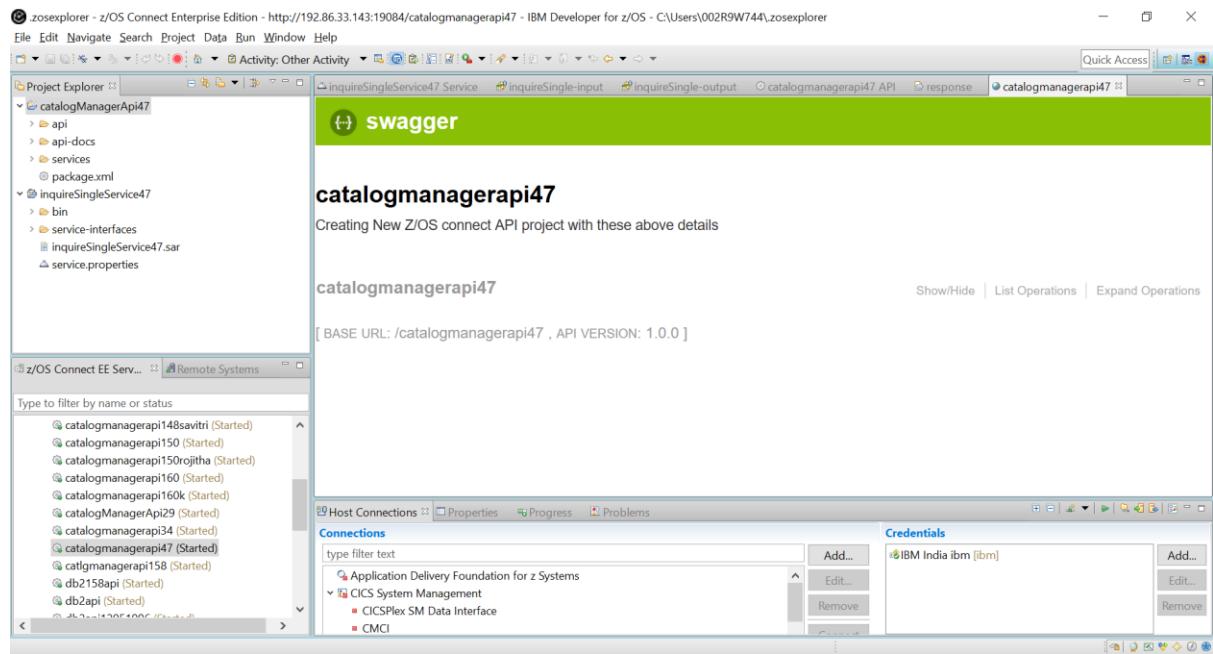
Now in the z/OS Connect EE Servers view the new API is deployed.



Next you will be able to test your API and see if it works.
Right-click on your team API and open Swagger UI :



Open API in Swagger



.zosexplorer - z/OS Connect Enterprise Edition - http://192.86.33.143:19084/catalogmanagerapi47 - IBM Developer for z/OS - C:\Users\002R9W744\.zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity

Project Explorer

- catalogManagerApi47
 - api
 - api-docs
 - services
 - package.xml
- InquireSingleService47
 - bin
 - service-interfaces
 - inquireSingleService47.sar
 - service.properties

Model Example Value

```
{
  "DFH0XCP1": {
    "CA_RETURN_CODE": 0,
    "CA_RESPONSE_MESSAGE": "string",
    "InquireSingle": {
      "item": {
        "itemID": 0,
        "CA_SNGL_DESCRIPTION": "string",
        "CA_SNGL_DEPARTMENT": 0,
        "CA_SNGL_COST": "string"
      }
    }
  }
}
```

Response Content Type application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
Authorization			header	string
itemID	(required)		path	string

Host Connections Properties Progress Problems

Connections

- type filter text
- Application Delivery Foundation for z Systems
- CICS System Management
 - CICSplex SM Data Interface
 - CMCI

Credentials

- IBM India ibm [ibm]

.zosexplorer - z/OS Connect Enterprise Edition - http://192.86.33.143:19084/catalogmanagerapi47 - IBM Developer for z/OS - C:\Users\002R9W744\.zosexplorer

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    "InquireSingle": {
      "item": {
        "itemID": 0,
        "CA_SNGL_DESCRIPTION": "string",
        "CA_SNGL_DEPARTMENT": 0,
        "CA_SNGL_COST": "string"
      }
    }
  }
}
```

Response Content Type application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
Authorization			header	string
itemID	10		path	string

Try it out!

Host Connections Properties Progress Problems

Connections

- type filter text
- Application Delivery Foundation for z Systems
- CICS System Management
 - CICSplex SM Data Interface
 - CMCI

Credentials

- IBM India ibm [ibm]

.zosexplorer - z/OS Connect Enterprise Edition - http://192.86.33.143:19084/catalogmanagerapi47 - IBM Developer for z/OS - C:\Users\002R9W744\.zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity

Project Explorer

- catalogManagerApi47
 - api
 - api-docs
 - services
 - package.xml
- InquireSingleService47
 - bin
 - service-interfaces
 - inquireSingleService47.sar
 - service.properties

z/OS Connect EE Server Remote Systems

Type to filter by name or status

- catalogmanagerapi148savitri (Started)
- catalogmanagerapi150 (Started)
- catalogmanagerapi150rojitha (Started)
- catalogmanagerapi160 (Started)
- catalogmanagerapi160k (Started)
- catalogManagerApi29 (Started)
- catalogmanagerapi34 (Started)
- catalogmanagerapi47 (Started)
- catalogmanagerapi158 (Started)
- db2158api (Started)
- db2api (Started)
- db2api (Started)

InquireSingleService47 Service inquireSingle-input inquireSingle-output catalogmanagerapi47 API response catalogmanagerapi47

Response Body

```
{
  "DFH0XCP1": {
    "CA_RESPONSE_MESSAGE": "EXCATMAN: CATALOG-INQUIRE",
    "InquireSingle": {
      "item": [
        {
          "itemID": 10,
          "CA_SNGL_DESCRIPTION": "Ball Pens Black 24pk",
          "CA_SNGL_DEPARTMENT": 10,
          "IN_SNGL_STOCK": 135,
          "CA_SNGL_COST": "002.90",
          "ON_SNGL_ORDER": 0
        }
      ],
      "CA_RETURN_CODE": 0
    }
  }
}
```

Host Connections Properties Progress Problems

Connections

- Application Delivery Foundation for z Systems
- CICS System Management
 - CICSplex SM Data Interface
 - CMCI

Credentials

- IBM India ibm [ibm]

.zosexplorer - z/OS Connect Enterprise Edition - http://192.86.33.143:19084/catalogmanagerapi47 - IBM Developer for z/OS - C:\Users\002R9W744\.zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity

Project Explorer

- catalogManagerApi47
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z/OS Connect EE Server Remote Systems

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- catalogmanagerapi160 (Started)
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- catalogManagerApi29 (Started)
- catalogmanagerapi34 (Started)
- catalogmanagerapi47 (Started)
- catalogmanagerapi158 (Started)
- db2158api (Started)
- db2api (Started)
- db2api (Started)

InquireSingleService47 Service inquireSingle-input inquireSingle-output catalogmanagerapi47 API response catalogmanagerapi47

Response Body

```
{
  "DFH0XCP1": {
    "ON_SNGL_ORDER": 0
  },
  "CA_RETURN_CODE": 0
}
```

Response Code

200

Response Headers

```
{
  "Content-Type": "application/json",
  "Content-Language": "en-US"
}
```

BASE URL: /catalogmanagerapi47 , API VERSION: 1.0.0]

Host Connections Properties Progress Problems

Connections

- Application Delivery Foundation for z Systems
- CICS System Management
 - CICSplex SM Data Interface
 - CMCI

Credentials

- IBM India ibm [ibm]

try giving different number in input

.zosexplorer - z/OS Connect Enterprise Edition - http://192.86.33.143:19084/catalogmanagerapi47 - IBM Developer for z/OS - C:\Users\002R9W744\.zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity

Project Explorer

- catalogManagerApi47
 - api
 - api-docs
 - services
 - package.xml
- InquireSingleService47
 - bin
 - service-interfaces
 - inquireSingleService47.sar
 - service.properties

z/OS Connect EE Server Remote Systems

Type to filter by name or status

- catalogmanagerapi148savitri (Started)
- catalogmanagerapi150 (Started)
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- catalogmanagerapi160 (Started)
- catalogmanagerapi160k (Started)
- catalogManagerapi29 (Started)
- catalogmanagerapi34 (Started)
- catalogmanagerapi47 (Started)
- catalogmanagerapi158 (Started)
- db2158api (Started)
- db2api (Started)

Try it out! Hide Response

Curl

```
curl -X GET --header 'Accept: application/json' 'http://192.86.33.143:19084/catalogmanagerapi47/items/10'
```

Request URL

Host Connections Properties Progress Problems

Connections

type filter text	Add...
Application Delivery Foundation for z Systems	Edit...
▼ CICS System Management	Remove
■ CICSPlex SM Data Interface	
■ CMCI	

Credentials

IBM India ibm [ibm]	Add...
Edit...	Remove

.zosexplorer - z/OS Connect Enterprise Edition - http://192.86.33.143:19084/catalogmanagerapi47 - IBM Developer for z/OS - C:\Users\002R9W744\.zosexplorer

File Edit Navigate Search Project Data Run Window Help

Activity: Other Activity

Project Explorer

- catalogManagerApi47
 - api
 - api-docs
 - services
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 - service.properties

z/OS Connect EE Server Remote Systems

Type to filter by name or status

- catalogmanagerapi148savitri (Started)
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- catalogmanagerapi160 (Started)
- catalogmanagerapi160k (Started)
- catalogManagerapi29 (Started)
- catalogmanagerapi34 (Started)
- catalogmanagerapi47 (Started)
- catalogmanagerapi158 (Started)
- db2158api (Started)
- db2api (Started)

Response Body

```
{
  "DFH0XCP1": {
    "CA_RESPONSE_MESSAGE": "EXCATMAN: CATALOG-INQUIRE",
    "InquireSingle": {
      "item": {
        "itemID": 20,
        "CA_SNGL_DESCRIPTION": "Ball Pens Blue 24pk",
        "CA_SNGL_DEPARTMENT": 10,
        "IN_SNGL_STOCK": 10,
        "CA_SNGL_COST": "002.90",
        "ON_SNGL_ORDER": 50
      }
    },
    "CA_RETURN_CODE": 0
  }
}
```

Host Connections Properties Progress Problems

Connections

type filter text	Add...
Application Delivery Foundation for z Systems	Edit...
▼ CICS System Management	Remove
■ CICSPlex SM Data Interface	
■ CMCI	

Credentials

IBM India ibm [ibm]	Add...
Edit...	Remove

The screenshot shows the zosexplorer interface for testing APIs. The 'catalogManagerApi47' project is selected in the Project Explorer. The 'inquireSingleService47 Service' tab is active, displaying the API's code and configuration. The 'Response Headers' section shows the JSON response headers: {Content-Type: application/json, Content-Language: en-US}. The bottom panel displays the 'Connections' and 'Credentials' sections, which are empty.

Test API from browser

As the API you have created uses the GET method you can test it from a browser.

In the Swagger tab where you tested the API, you can see the URL that was sent as shown here

The screenshot shows the zosexplorer interface for testing APIs. The 'catalogManagerApi47' project is selected in the Project Explorer. The 'inquireSingleService47 Service' tab is active, displaying the API's code and configuration. The 'Try it out!' button is highlighted. The 'Request URL' field contains 'http://192.86.33.143:19084/catalogmanagerapi47/items/20'. The 'Request Headers' section shows the header {Accept: application/json}. The bottom panel displays the 'Connections' and 'Credentials' sections, which are empty.

Microsoft Word - zOS ConnectEE X z-OS-Connect-EE-Workshop/N... X mainframe-modernization/z-OS X 192.86.33.143:19084/catalogmanagerapi47/items/20 +

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

DFHDXCP1:

CA_RESPONSE_MESSAGE: "EXCATMAN: CATALOG-INQUIRE"

InquireSingle:

item:

itemID :	20
CA_SNGL_DESCRIPTION:	"Ball Pens Blue 24pk"
CA_SNGL_DEPARTMENT:	10
IN_SNGL_STOCK:	10
CA_SNGL_COST:	"002.90"
ON_SNGL_ORDER:	50
CA_RETURN_CODE:	0

Microsoft Word - zOS ConnectEE X z-OS-Connect-EE-Workshop/N... X mainframe-modernization/z-OS X 192.86.33.143:19084/catalogmanagerapi47/items/20 +

JSON Raw Data Headers

Save Copy Pretty Print

```
{"DFHDXCP1": {"CA_RESPONSE_MESSAGE": "EXCATMAN: CATALOG-INQUIRE", "InquireSingle": {"item": {"itemID": "20", "CA_SNGL_DESCRIPTION": "Ball Pens Blue 24pk", "CA_SNGL_DEPARTMENT": "10", "IN_SNGL_STOCK": "10", "CA_SNGL_COST": "002.90", "ON_SNGL_ORDER": "50"}, "CA_RETURN_CODE": "0"}}
```

The screenshot shows a browser window with the following details:

- Tab titles: Microsoft Word - zOS ConnectEE, z-OS-Connect-EE-Workshop/N:, mainframe-modernization/z-OS:, 192.86.33.143:19084/catalogmanagerapi47/items/20.
- Address bar: 192.86.33.143:19084/catalogmanagerapi47/items/20
- Toolbar buttons: Back, Forward, Refresh, Home, Stop, Reload, and a star icon.
- Header bar: JSON, Raw Data, Headers (selected), and a copy button.
- Content area:
 - Response Headers**

Content-Language	en-US
Content-Length	253
Content-Type	application/json
Date	Tue, 28 Jun 2022 08:38:29 GMT
X-Powered-By	Servlet/3.1
 - Request Headers**

Accept	text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Encoding	gzip, deflate
Accept-Language	en-US,en;q=0.5
Connection	keep-alive
Host	192.86.33.143:19084
 - Upgrade-Insecure-Requests** 1
 - User-Agent** Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:101.0) Gecko/20100101 Firefox/101.0

```
Microsoft Word - zOS ConnectEE X z-OS-Connect-EE-Workshop/N... X mainframe-modernization/z-OS X 192.86.33.143:19084/catalogmanagerapi47/items/40 + - ⌂ ×
← → ⌂ 192.86.33.143:19084/catalogmanagerapi47/items/40 ☆ ⌂ ⌂ ⌂
JSON Raw Data Headers
Save Copy Pretty Print
{"DFH0XCP1": {"CA_RESPONSE_MESSAGE": "EXCATMAN: CATALOG-INQUIRE", "InquireSingle": {"item": {"itemID": "40", "CA_SNGL_DESCRIPTION": "Ball Pens Green 24pk", "CA_SNGL_DEPARTMENT": "10", "IN_SNGL_STOCK": 87, "CA_SNGL_COST": "002.90", "ON_SNGL_ORDER": 0}, "CA_RETURN_CODE": 0}}
```

```
Microsoft Word - zOS ConnectEE X z-OS-Connect-EE-Workshop/N... X mainframe-modernization/z-OS X 192.86.33.143:19084/catalogmanagerapi47/items/40 + - ⌂ ×
← → ⌂ 192.86.33.143:19084/catalogmanagerapi47/items/40 ☆ ⌂ ⌂ ⌂
JSON Raw Data Headers
Copy
Response Headers
Content-Language en-US
Content-Length 253
Content-Type application/json
Date Tue, 28 Jun 2022 08:40:57 GMT
X-Powered-By Servlet/3.1
Request Headers
Accept text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Encoding gzip, deflate
Accept-Language en-US,en;q=0.5
Connection keep-alive
Host 192.86.33.143:19084
Upgrade-Insecure-Requests 1
User-Agent Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:101.0) Gecko/20100101 Firefox/101.0
```

Microsoft Word - zOS ConnectEE X z-OS-Connect-EE-Workshop/N... X z-OS-Connect-EE-Workshop/D... X 192.86.33.143:19084/catalogmanagerapi47/items/50 +

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
DFH0XCP1:
CA_RESPONSE_MESSAGE: "EXCATMAN: CATALOG-INQUIRE"
InquireSingle:
item:
  itemID: 50
  CA_SNGL_DESCRIPTION: "Pencil with eraser 12pk"
  CA_SNGL_DEPARTMENT: 10
  IN_SNGL_STOCK: 93
  CA_SNGL_COST: "001.78"
  ON_SNGL_ORDER: 0
  CA_RETURN_CODE: 0
```

Now API is ready .

Query z/OS Connect EE (URL - <http://192.86.33.143:19084/zosConnect/services>

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JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
zosConnectServices:
  0:
    ServiceName: "DB2Service158"
    ServiceDescription: ""
    ServiceProvider: "restclient-1.0"
    ServiceURL: "http://192.86.33.143:19084/zosConnect/services/DB2Service158"
  1:
    ServiceName: "inquireSingleService46"
    ServiceDescription: ""
    ServiceProvider: "CICS-1.0"
    ServiceURL: "http://192.86.33.143:19084/zosConnect/services/inquireSingleService46"
  2:
    ServiceName: "EmployeeDB2service142142"
    ServiceDescription: ""
    ServiceProvider: "restclient-1.0"
    ServiceURL: "http://192.86.33.143:19084/zosConnect/services/EmployeeDB2service142142"
  3:
    ServiceName: "inquireSingleService47"
    ServiceDescription: ""
    ServiceProvider: "CICS-1.0"
    ServiceURL: "http://192.86.33.143:19084/zosConnect/services/inquireSingleService47"
  4:
    ServiceName: "DB2 Service Connection MFT148"
    ServiceDescription: ""
    ServiceProvider: "restclient-1.0"
    ServiceURL: "http://192.86.33.143:19084/zosConnect/services/DB2%20Service%20Connection%20MFT148"
  5:
    ServiceName: "DB2Service150rojitha"
```

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192.86.33.143:19084/zosConnect/services

JSON Raw Data Headers

Save Copy Pretty Print

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192.86.33.143:19084/zosConnect/services

JSON Raw Data Headers

Copy

Response Headers

Content-Language en-US
Content-Type application/json
Date Tue, 28 Jun 2022 08:45:01 GMT
Transfer-Encoding chunked
X-Powered-By Servlet/3.1

Request Headers

Accept text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Encoding gzip, deflate
Accept-Language en-US,en;q=0.5
Connection keep-alive
Host 192.86.33.143:19084
Upgrade-Insecure-Requests 1
User-Agent Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:101.0) Gecko/20100101 Firefox/101.0

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← → ⌂ 192.86.33.143:19084/zosConnect/services/inquireSingleService47

JSON Raw Data Headers

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```
▼ zosConnect:
  serviceName: "inquireSingleService47"
  serviceDescription: ""
  serviceProvider: "CICS-1.0"
  version: "1.0.0"
  ▼ serviceURL: "http://192.86.33.143:19084/zosConnect/services/inquireSingleService47"
  ▼ serviceInvokeURL: "http://192.86.33.143:19084/zosConnect/services/inquireSingleService47?action=invoke"
  dataXformProvider: "zosConnectWxform-1.0"
  serviceStatus: "Started"
  ▼ inquireSingleService47:
    transidUsage: "EIB_ONLY"
    transid: "SS*"
    program: "DFHDXCMN"
    connectionRef: "CICSREGN"
    ccsid: "37"
```

