My training by tutorial from developers.sap.com

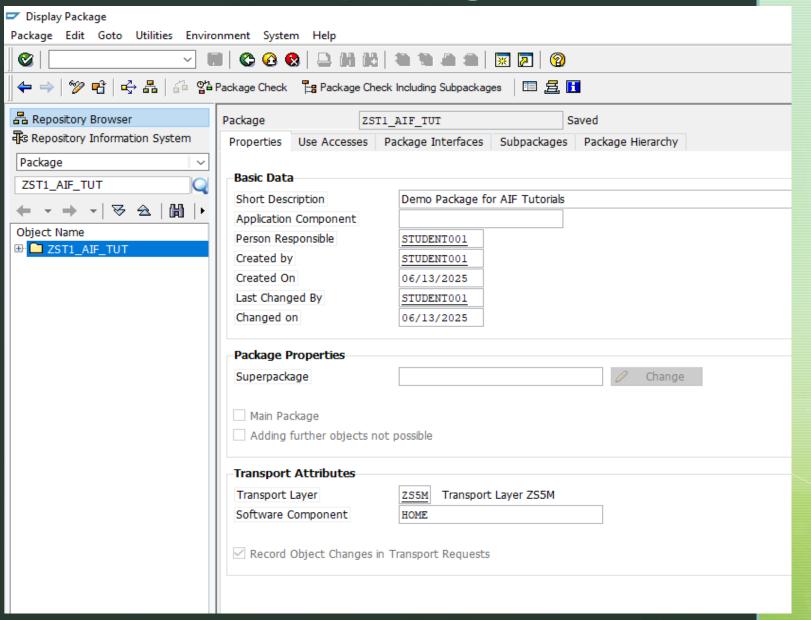
https://developers.sap.com/tutorials/aifproxy-monitoring-interface-create..html

Create a Simple Proxy Interface

Instructions and codes are taken from tutorial "Create a Simple Proxy Interface" (https://developers.sap.com/tutori als/). All screenshots made from my

All screenshots made from my own development performed via this tutorial

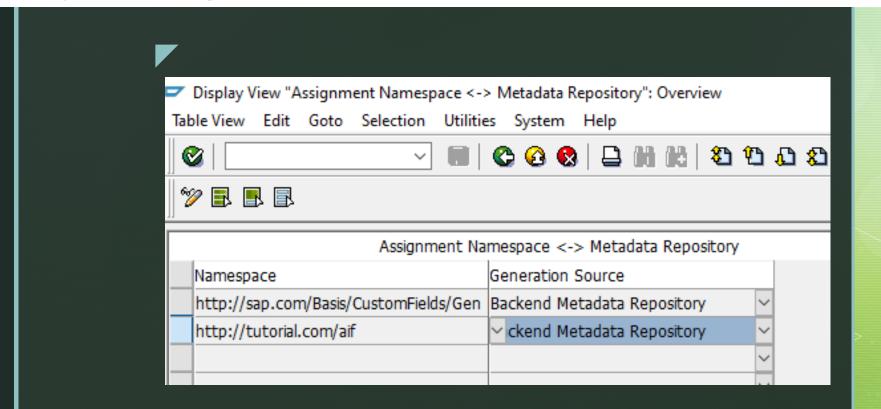
Create a package



Next, you need to assign a new namespace to the Backend Metadata Repository. Run transaction **Assignment Namespace Generating Application** (transaction code SPXNGENAPPL).

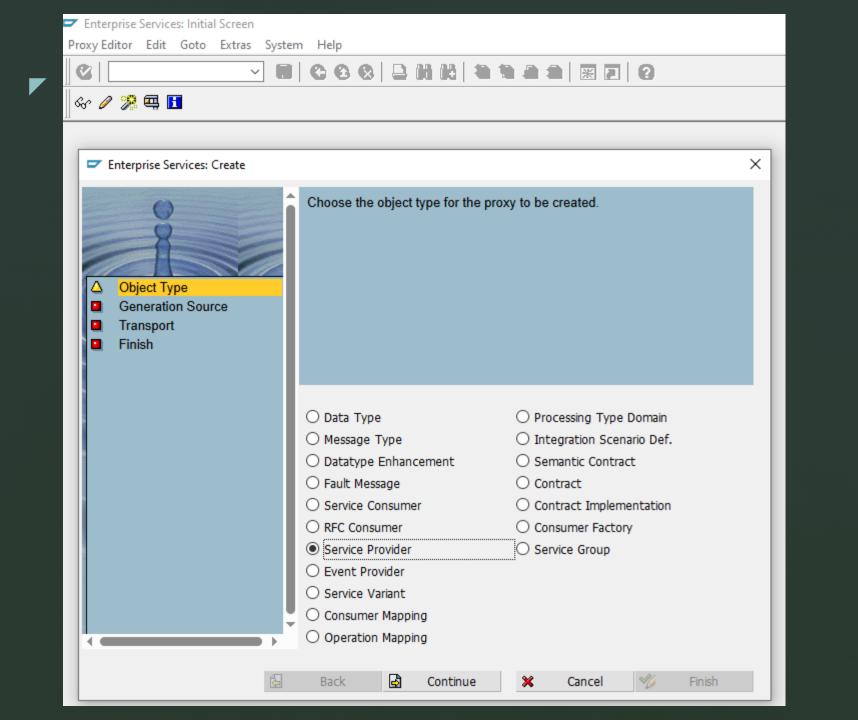
Switch to **Edit** mode, add a new entry, and enter or select the following details for your new namespace:

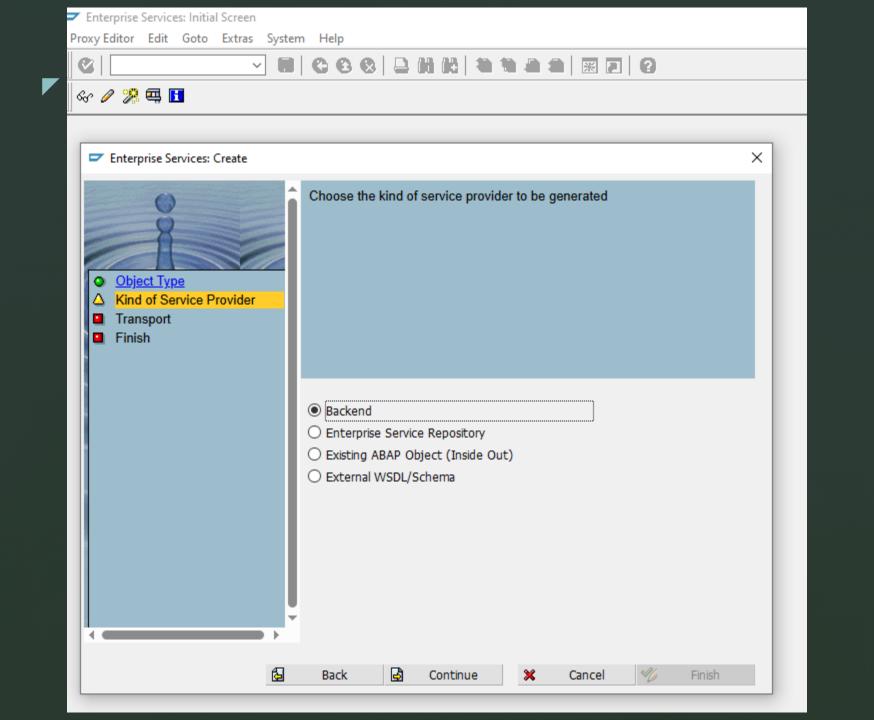
Save your changes.

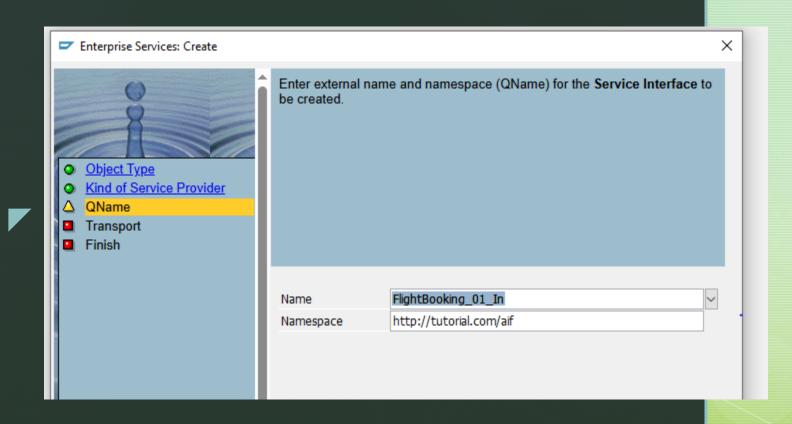


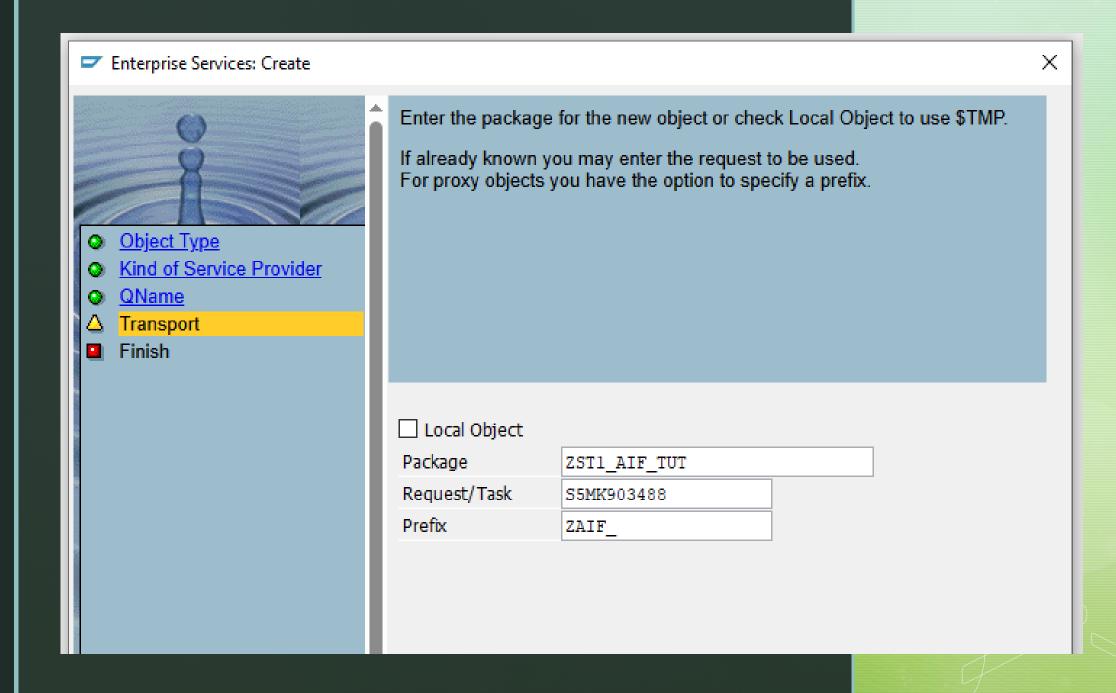
CREATE PROXY

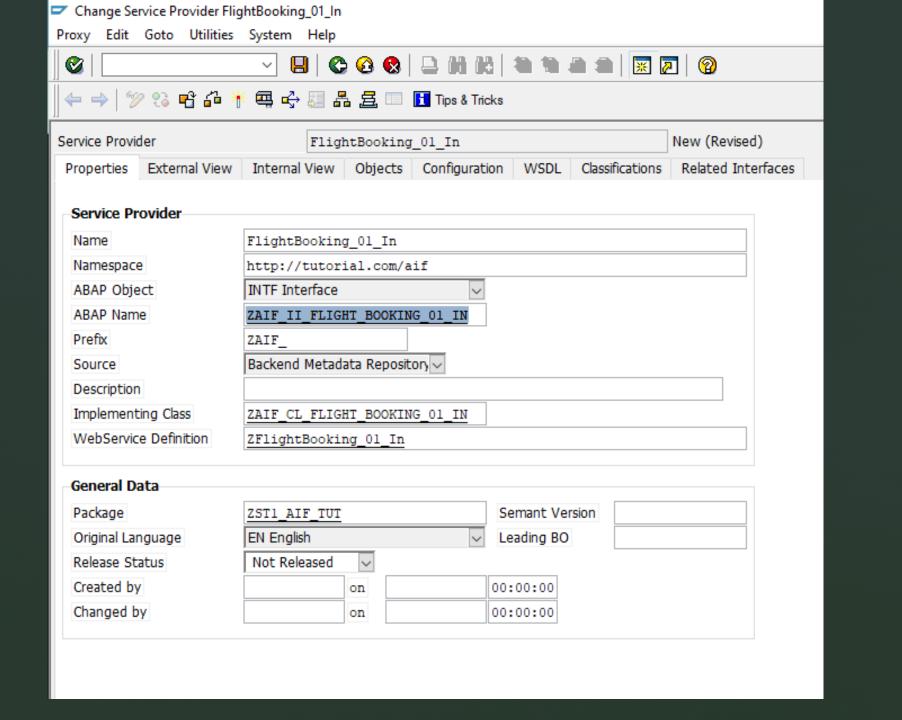
- To create a new service interface, run the **proxy editor** (transaction code SPROXY_START).
- In Enterprise Services: Initial Screen, select Create with Wizard and carry out the following configuration steps:
- 1.As Object Type, select Service Provider. Click Continue.
- 2.As Kind of Service Provider, select Backend. Click Continue.
- 3.As Name, enter and namespace http://tutorial.com/aif.
- Click Continue.
- 4.For the transport options, enter your package ZST1_AIF_TUT, select a workbench request, and enter the prefix ZAIF_.
 Select Continue.

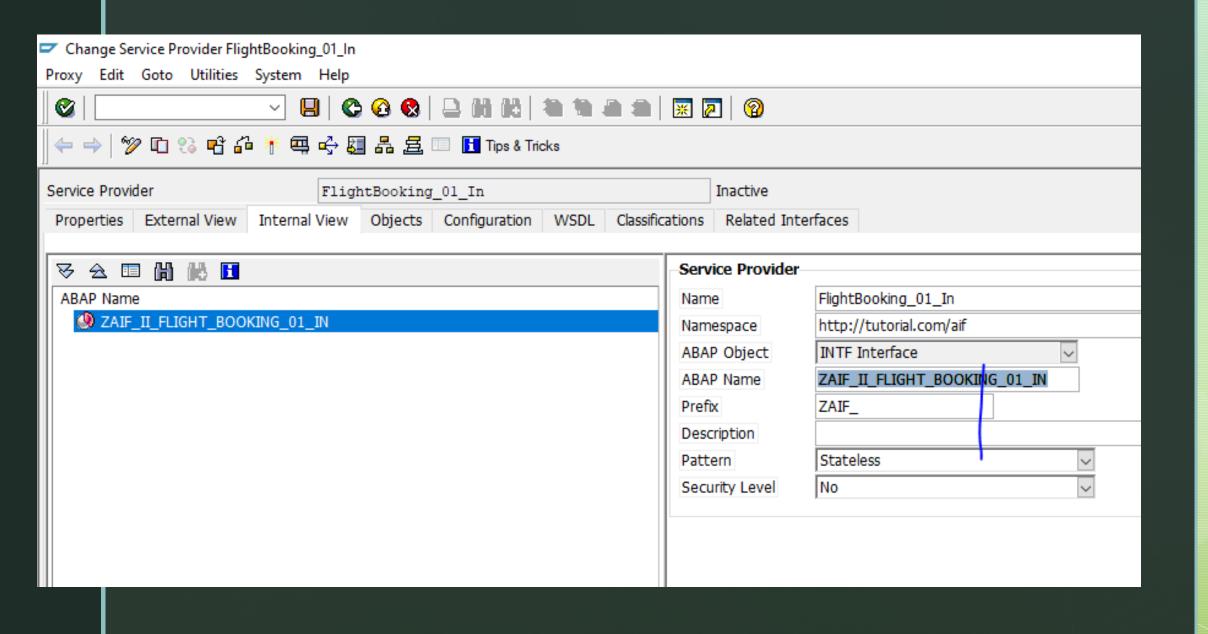


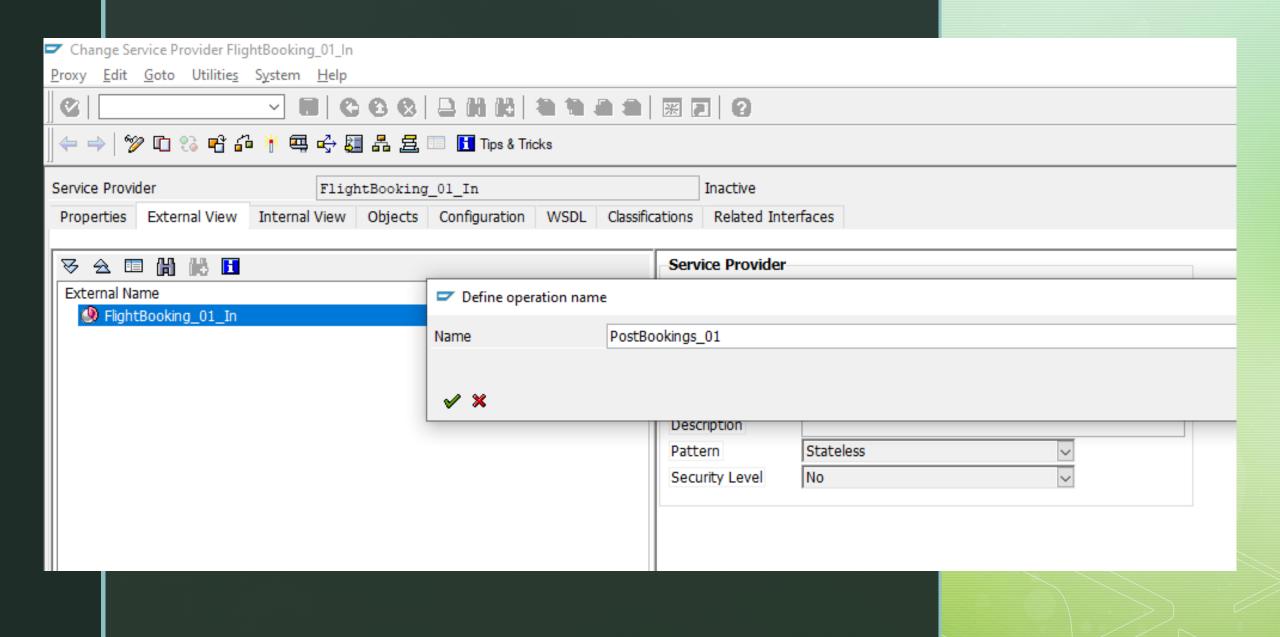












DEFINE PROXY STRUCTURES

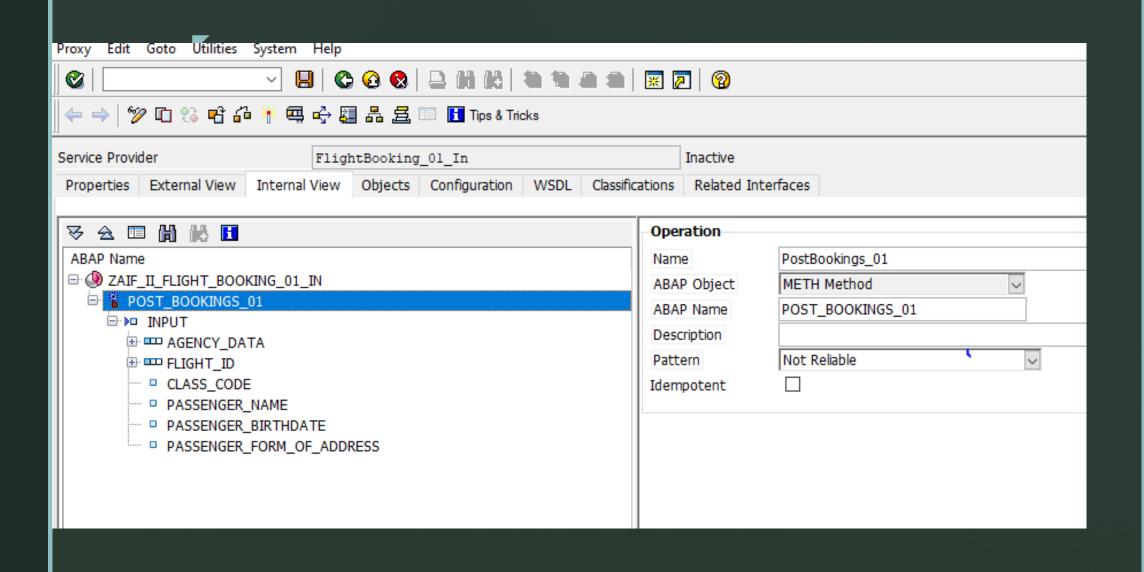
Next, you need to add an operation and a fault message type in the proxy editor.

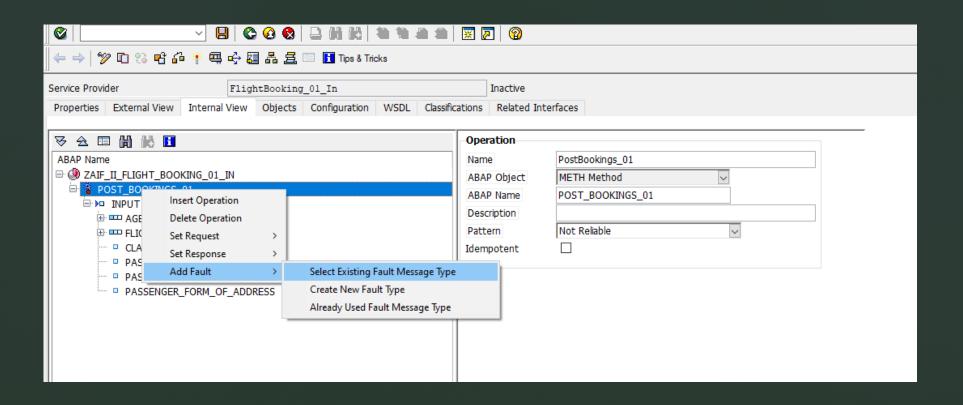
1.Switch to the Internal View tab. Right-click your service provider and select

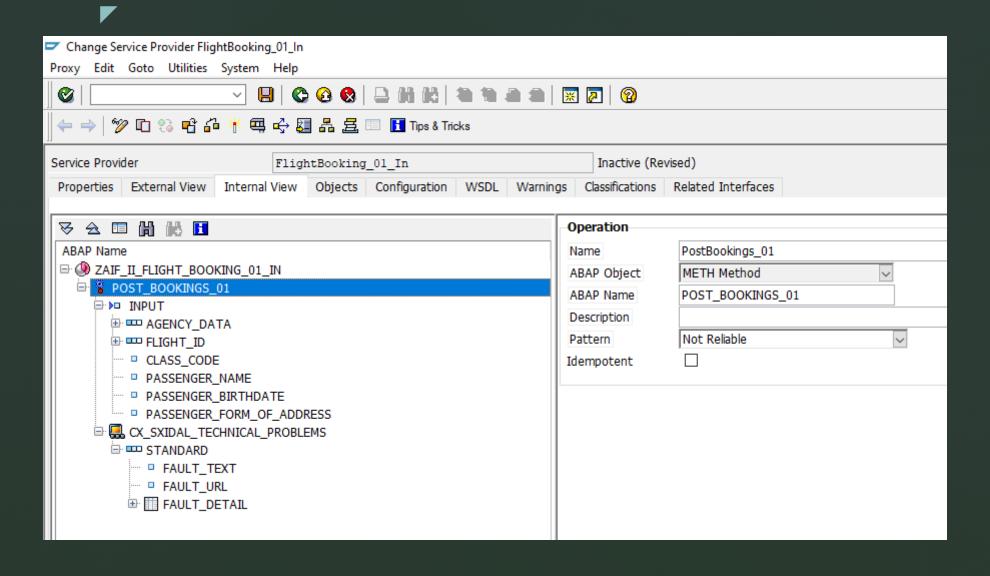
Add Operation. Enter the operation name PostBookings_01. With the new operation selected, switch the Pattern of the operation to Not Reliable to simplify testing.

- 1.Right-click the operation and select Set Request > Select Existing

 Message Type from the context menu.
- 2.In the upcoming **Restrict Value Range** dialog, remove all filters.
- 3.Enter the message type **SXIDAL_FBO_REQUEST_MT** in the **ABAP Name** search filter,
- 4. and the namespace http://sap.com/xi/XI/Demo/Airline in the Namespace search filter,
- 5.then press **Enter**. In the search result, select the found entry, and select **Copy**.
- 2.Right-click the operation and select Add Fault > Select Existing Fault Message Type.
- 3.Similar to the message type search, remove all filters. Then search for the fault message
- 4.type CX_SXIDAL_TECHNICAL_PROBLEMS.
- 3.Save and activate the proxy.







Implement proxy class method

Finally, to book the flights in your test scenario, the proxy class method needs to be implemented. Switch to the **Properties** tab.

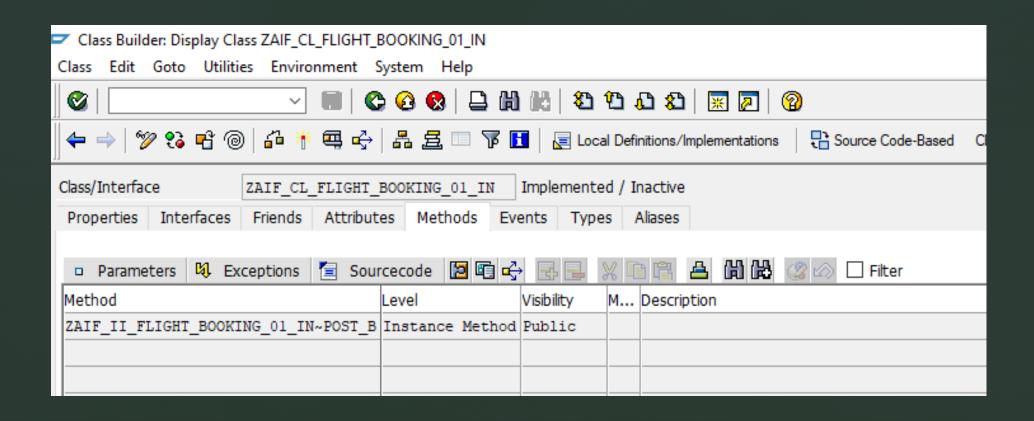
Double-click the implementing class

ZAIF_CL_FLIGHT_BOOKING_01_IN

and then double-click the method

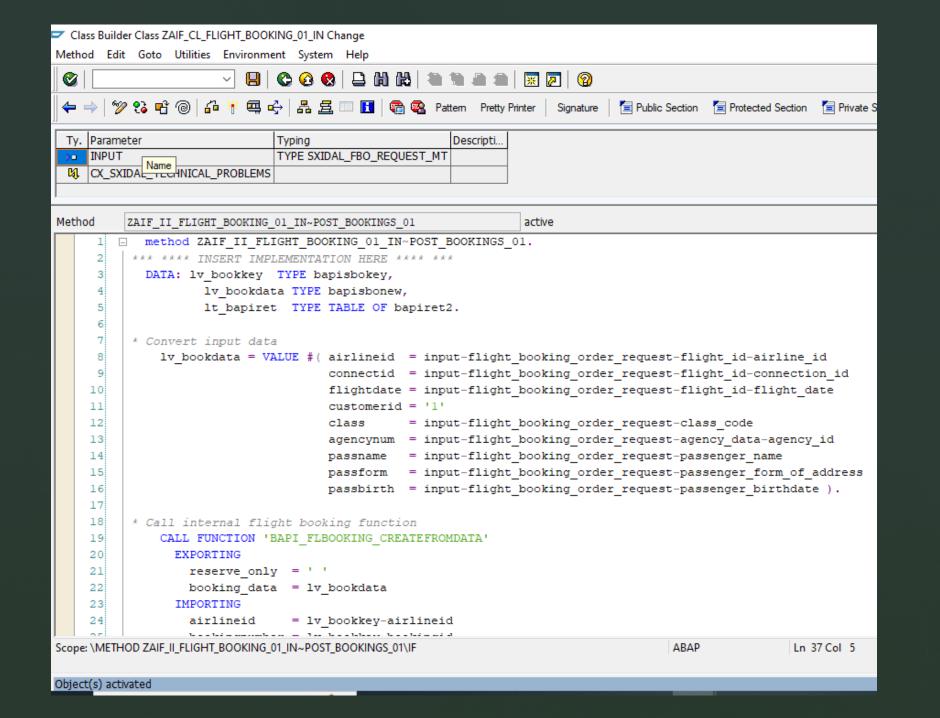
ZAIF_II_FLIGHT_BOOKING_01_IN~POST_BOOKINGS_01.

Maintain the implementation of the method by copying and pasting the following:



```
method ZAIF II FLIGHT BOOKING 01 IN~POST BOOKINGS 01.
DATA: Iv_bookkey TYPE bapisbokey,
Iv_bookdata TYPE bapisbonew,
It bapiret TYPE TABLE OF bapiret2.
* Convert input data
Iv bookdata = VALUE #( airlineid = input-flight booking order request-flight id-
airline id
                connectid = input-flight_booking_order_request-flight_id-connection_id
                flightdate = input-flight booking order request-flight id-flight date
                customerid = '1'
                class = input-flight booking order request-class code
                agencynum = input-flight booking order request-agency data-
agency id
                passname = input-flight_booking_order_request-passenger_name
                passform = input-flight booking order request-
passenger form of address
                passbirth = input-flight booking order request-passenger birthdate ).
```

```
* Call internal flight booking function
  CALL FUNCTION 'BAPI_FLBOOKING_CREATEFROMDATA'
   EXPORTING
    reserve only = ''
    booking data = lv bookdata
   IMPORTING
    airlineid = lv_bookkey-airlineid
    bookingnumber = lv bookkey-bookingid
   TABLES
    return = lt_bapiret.
* error case
  IF line_exists( It_bapiret[ type = 'E' id = 'BAPI' number ='001' ] ).
   CALL METHOD cl_proxy_fault=>raise
    EXPORTING
     exception_class_name = 'CX_SXIDAL_TECHNICAL_PROBLEMS'
     bapireturn tab = It bapiret.
  ENDIF.
ENDMETHOD.
```



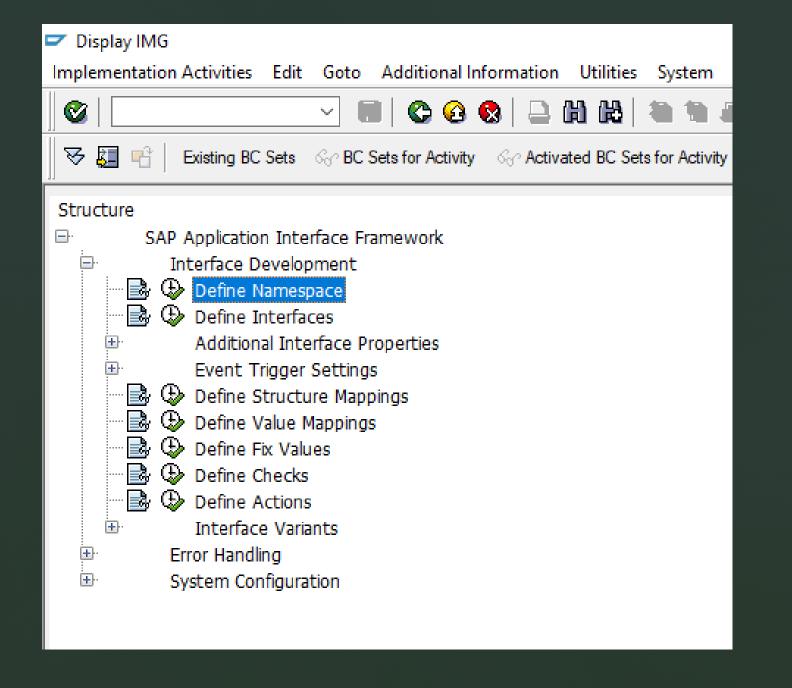
CREATE NAMESPACE

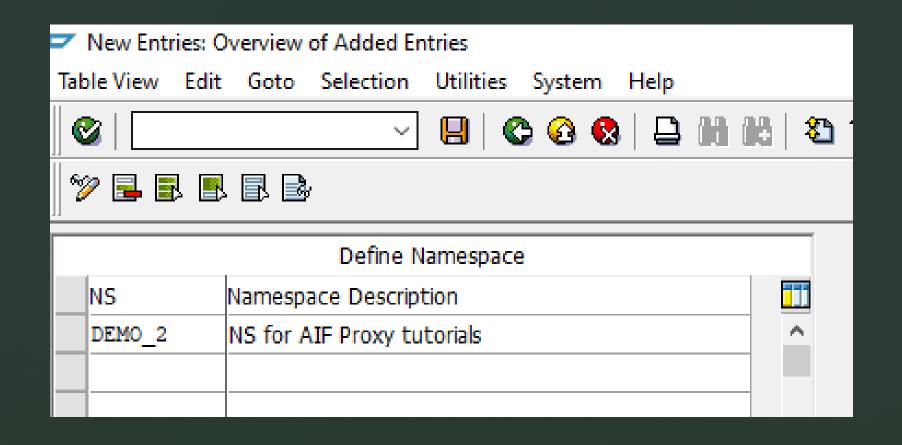
As interfaces in SAP Application Interface Framework are grouped using namespaces, you must create a namespace.

Go to **Customizing** for SAP Application Interface Framework (transaction code /n/AIF/CUST) and navigate to **Interface Development > Define Namespace**.

Select **New Entries** and enter the following name and description for your new namespace:

Namespace	Namespace Description	
DEMO_2	NS for AIF Proxy tutorials	





CREATE INTERFACE

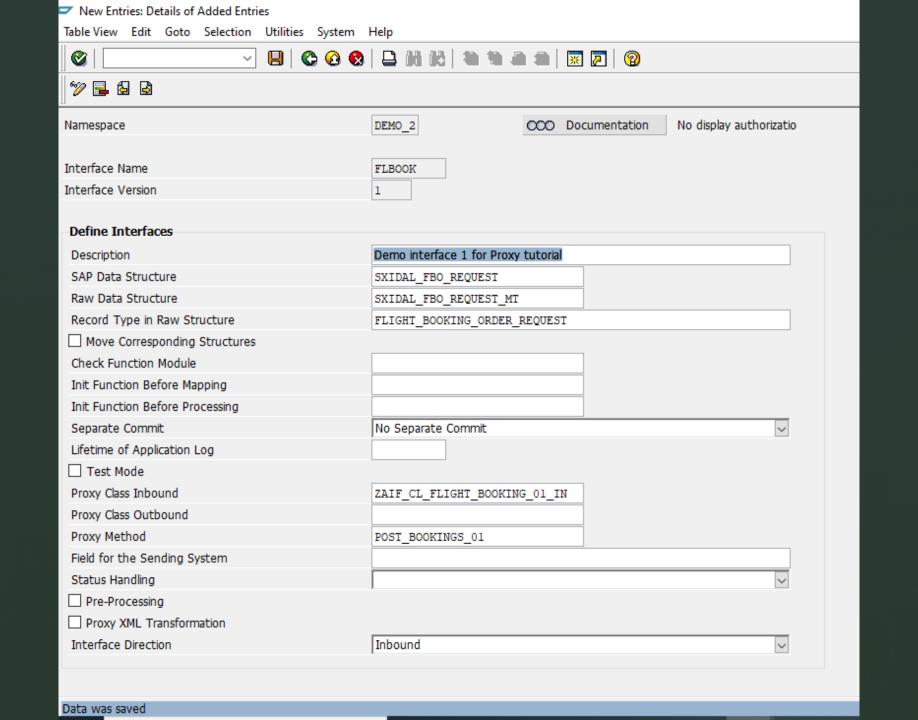
While still in **Customizing** (transaction code /n/AIF/CUST), navigate to **Interface Development** > **Define Interfaces**. In the upcoming dialog, enter your previously created namespace **DEMO_2** and press **Enter**. Select **New Entries** and enter the following parameters based on your proxy class and implementation.

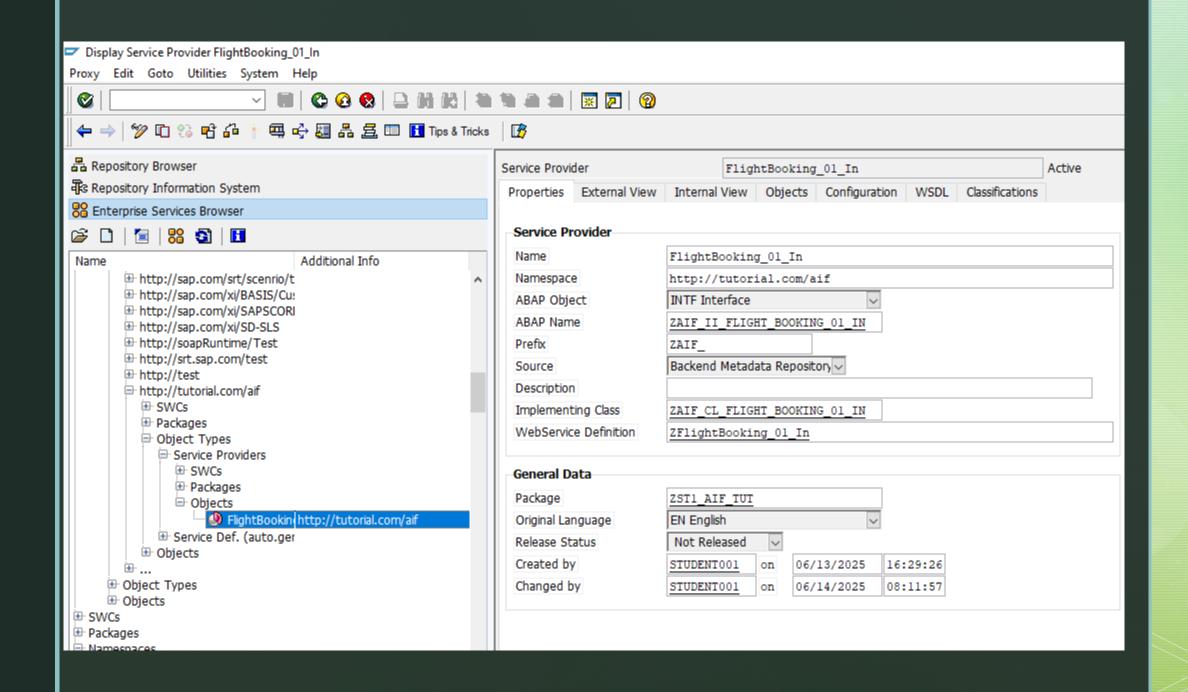
You can double-check this information in transaction code SPROXY

Be aware that entering the Proxy Class Inbound automatically fills in Raw Data Structure, Record Type in Raw Structure, and Proxy Method.

Field name	Description	VALUE
Interface Name	Name of the interface to be created, for example (an abbreviation of) the basic type	FLBOOK
Interface version	Version number of the interface	1
Description	Description of the interface	Demo interface 1 for Proxy tutorial
SAP Data structure	Input substructure of the proxy class	SXIDAL_FBO_REQUEST
Raw Data structure	Input structure of the proxy class	SXIDAL_FBO_REQUEST_MT
Record Type in Raw Structure	Main component of the raw data structure	FLIGHT_BOOKING_ORDER_REQUEST
Proxy Class Inbound	Name of the proxy class	ZAIF_CL_FLIGHT_BOOKING_01_IN
Proxy Method	Method name of the generated proxy class	POST_BOOKINGS_01
Interface Direction	Indicates the direction of the interface	Inbound

Save your changes.





SPECIFY INTEERFACE ENGINES

Next, you have to select the engines that should be used to handle the messages that are processed.

If you create a new interface, by default, SAP Application Interface Framework handles the messages as proxy messages,

so you can keep the default settings.

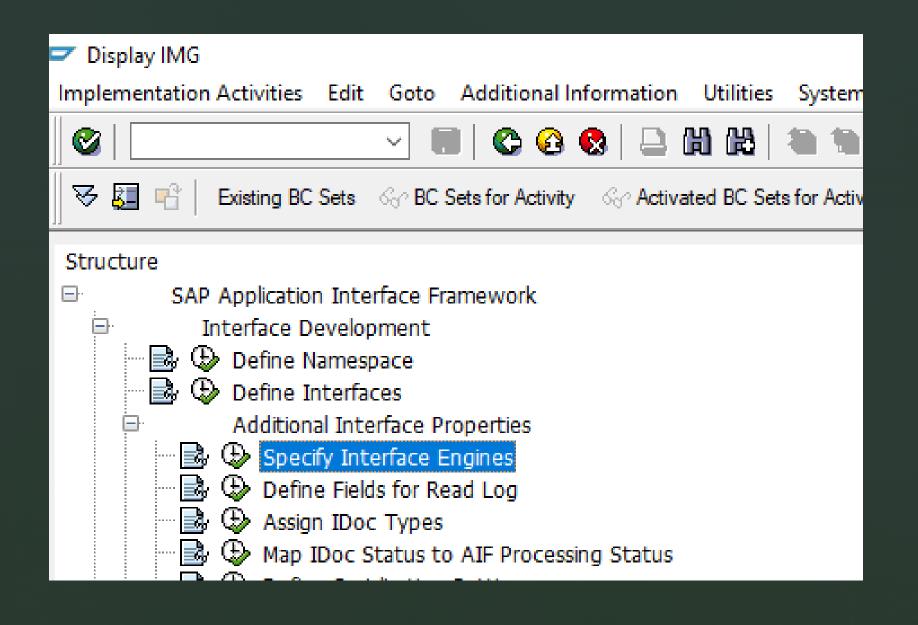
To double-check the settings, go to **Customizing** for SAP Application Interface

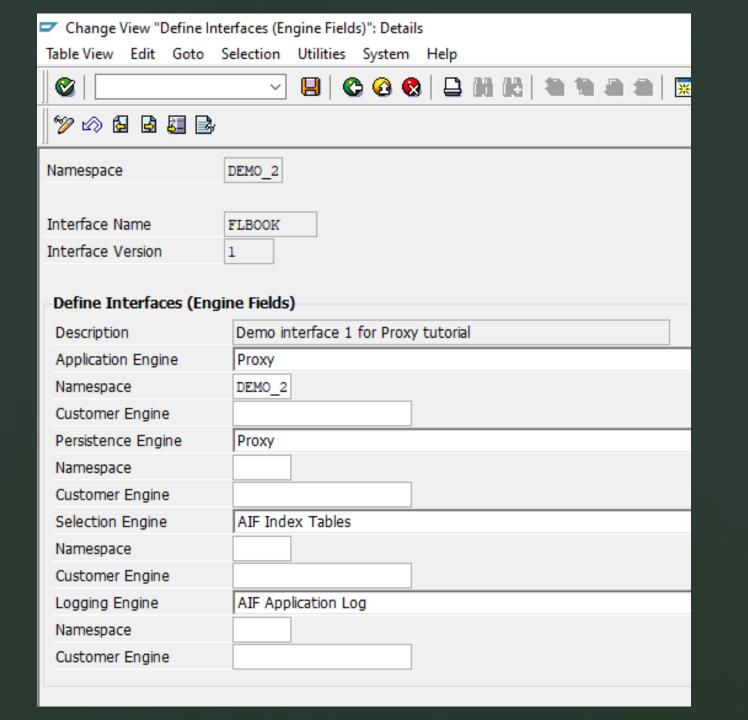
Framework (transaction code /AIF/CUST)

and navigate to Interface Development > Additional Interface Properties > Specify Interface Engines.

In the upcoming dialog, enter your beforehand created namespace **DEMO_2**, and press **Enter**.

Check that the following engines are preselected:

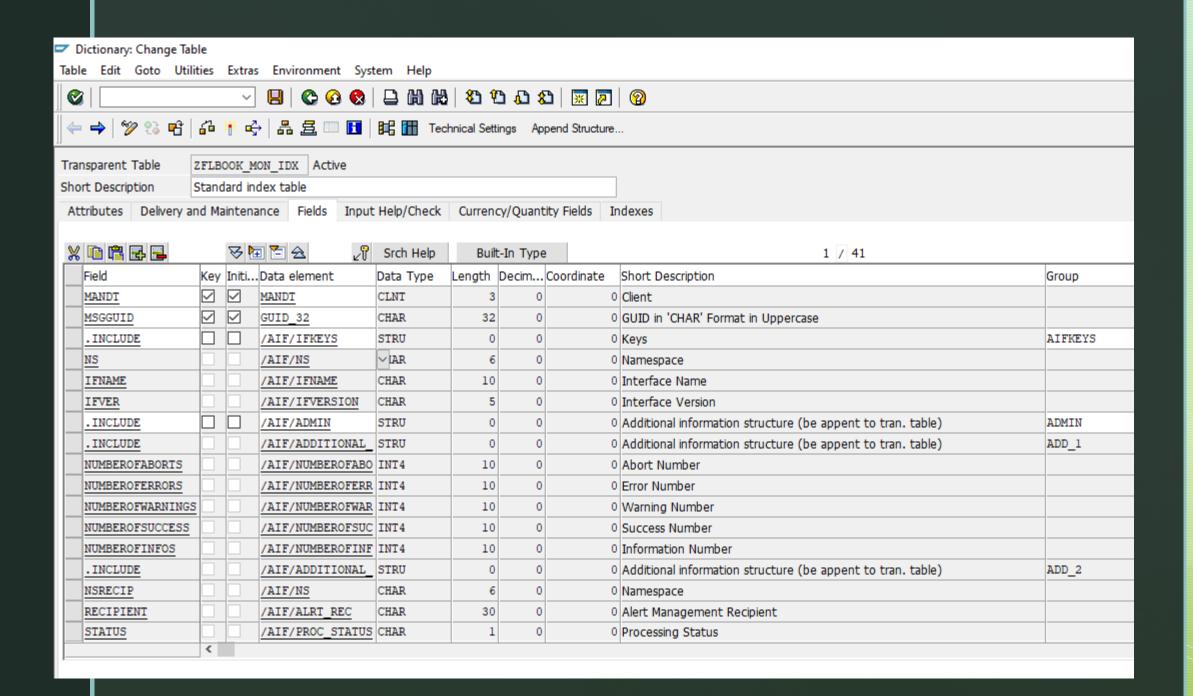


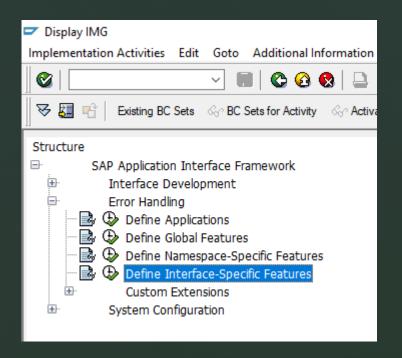


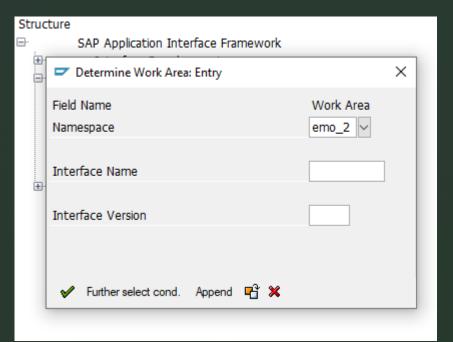
Create interface-specific single index table

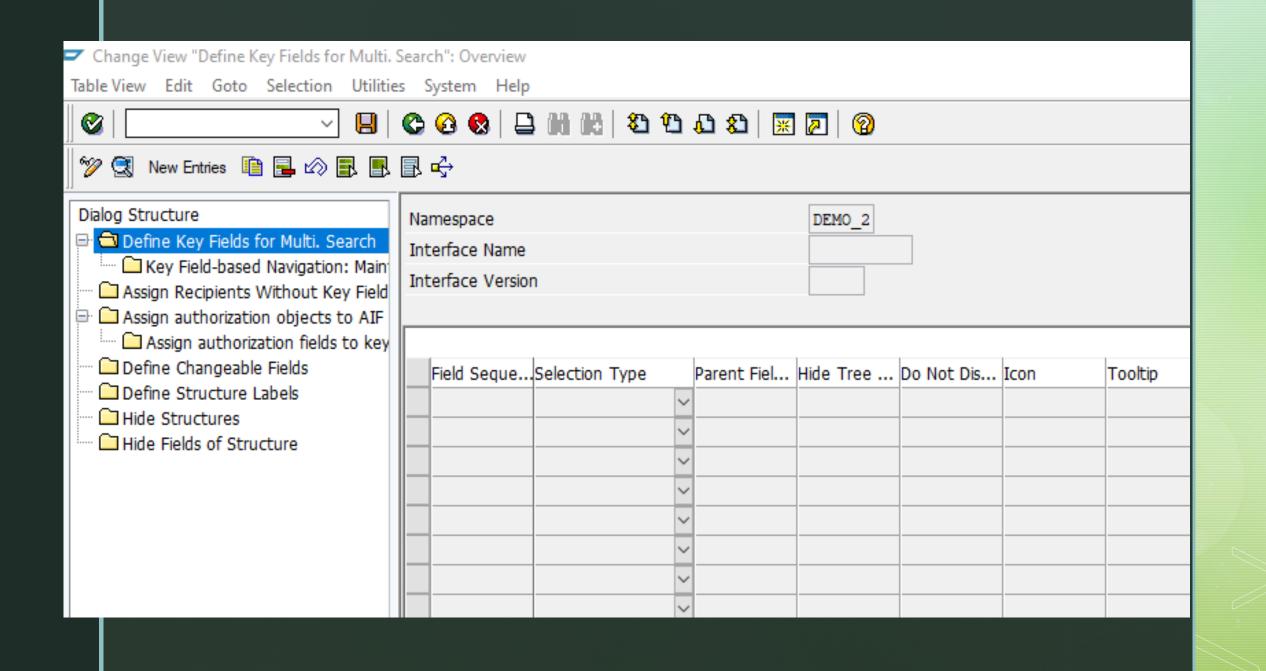
It's recommended to implement an interface-specific single index table to ensure full flexibility, especially if you expect a high load of messages or if you plan to define key fields for your interface (now or later).

- 1.Create a table via transaction SE11. You can use table /AIF/STD_IDX_TBL as a template by entering /AIF/STD_IDX_TBL in the field **Database table**, right-clicking it and selecting **Copy....** Enter the name **ZFLBOOK_MON_IDX** for the new table and select **Continue**. When prompted, enter package **ZDEMO**, which you created earlier.
- 2.After creating the single index table, activate it by selecting **Display** and then **Activate**.









TO BE CONTINUED