

My training by tutorial
from developers.sap.com

<https://developers.sap.com/tutorials/aif-proxy-monitoring-interface-create..html>

Create a Simple Proxy Interface

PART 1

- Instructions and codes are taken from tutorial "Create a Simple Proxy Interface" (<https://developers.sap.com/tutorials/>).
All screenshots made from my own development performed via this tutorial

Create a package

Display Package

Package Edit Goto Utilities Environment System Help

Package Check Package Check Including Subpackages

Repository Browser

Repository Information System

Package

ZST1_AIF_TUT

Object Name

ZST1_AIF_TUT

Package ZST1_AIF_TUT Saved

Properties Use Accesses Package Interfaces Subpackages Package Hierarchy

Basic Data

Short Description	Demo Package for AIF Tutorials
Application Component	
Person Responsible	STUDENT001
Created by	STUDENT001
Created On	06/13/2025
Last Changed By	STUDENT001
Changed on	06/13/2025

Package Properties

Superpackage [Change](#)

☐ Main Package

☐ Adding further objects not possible

Transport Attributes

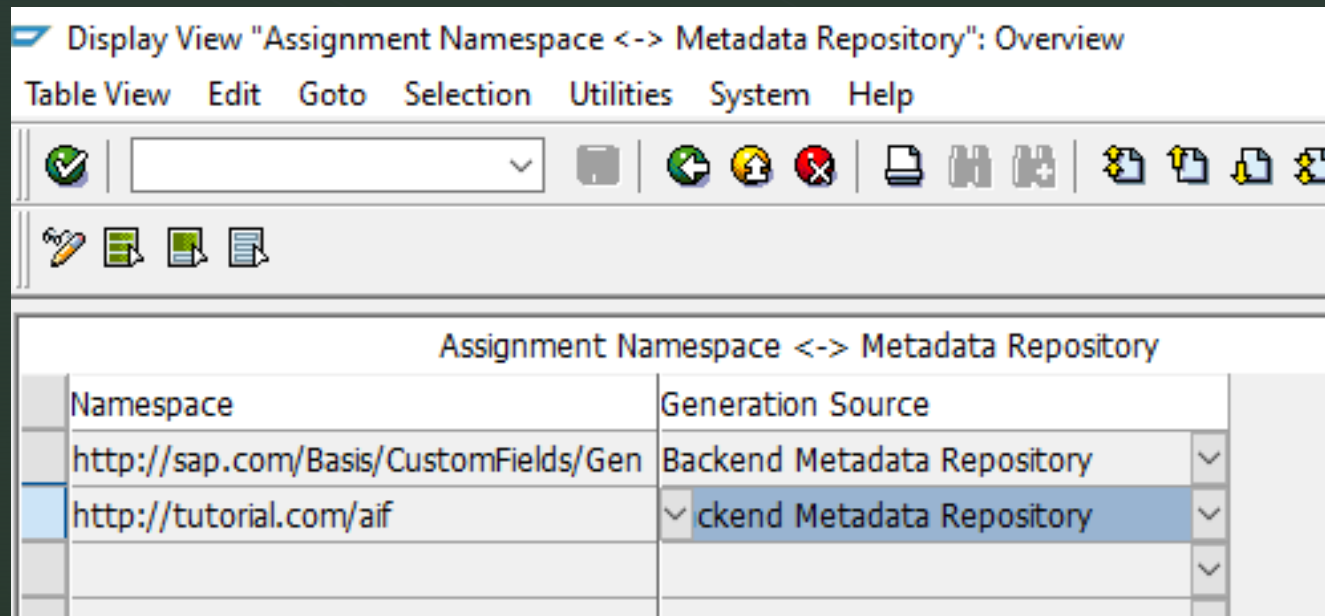
Transport Layer	ZS5M	Transport Layer ZS5M
Software Component	HOME	

☒ Record Object Changes in Transport Requests

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.



Display View "Assignment Namespace <-> Metadata Repository": Overview

Table View Edit Goto Selection Utilities System Help

Assignment Namespace <-> Metadata Repository

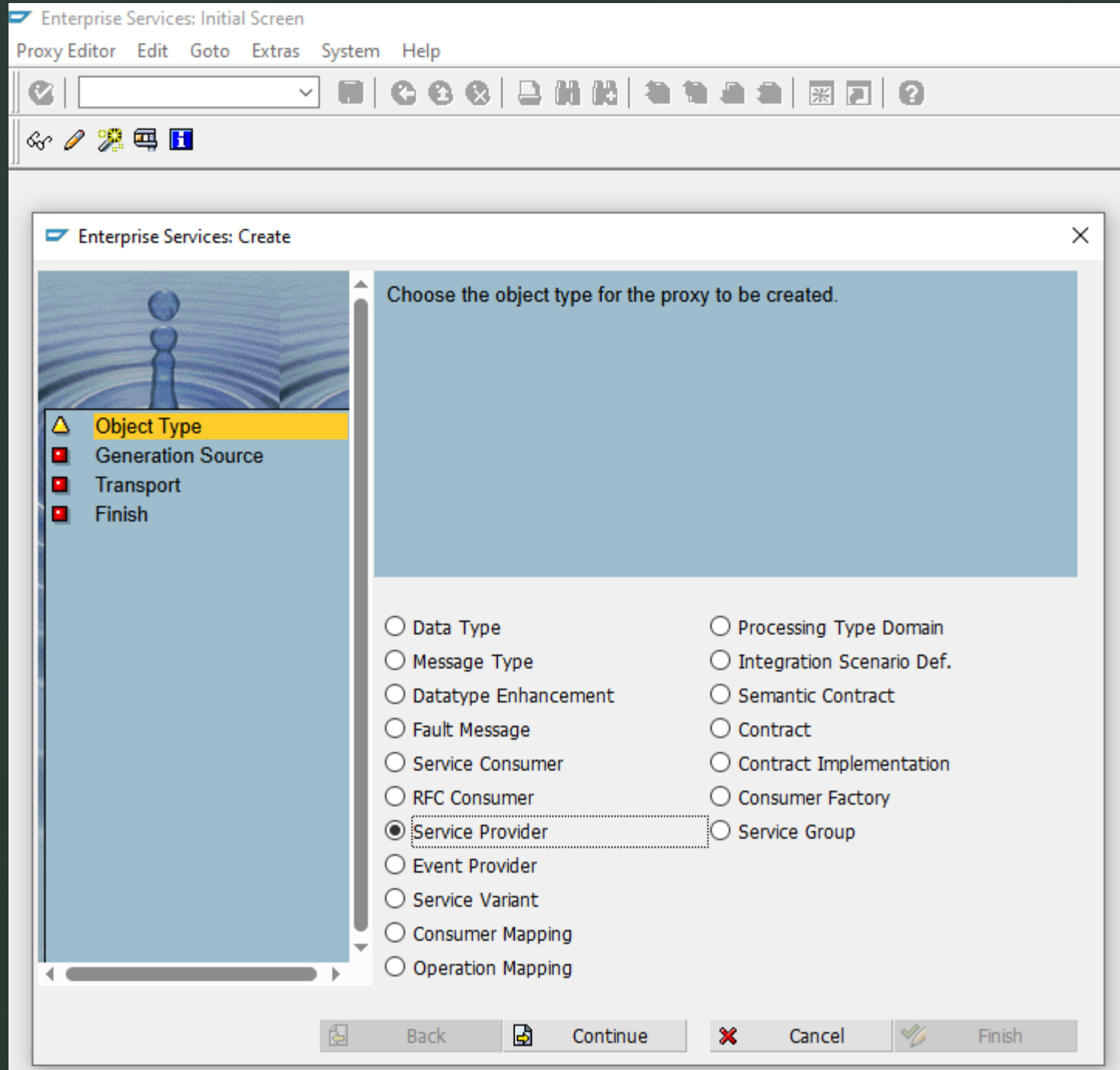
Namespace	Generation Source
http://sap.com/Basis/CustomFields/Gen	Backend Metadata Repository
http://tutorial.com/aif	Backend Metadata Repository

CREATE PROXY

To create a new service interface, run the **proxy editor** (transaction code **SPROXY_START**).

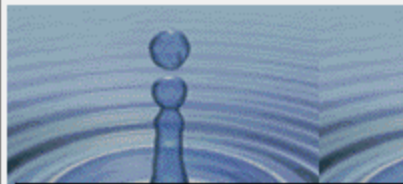
In **Enterprise Services: Initial Screen**, select **Create with Wizard** and carry out the following configuration steps:

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**.





Enterprise Services: Create



- [Object Type](#)
- Kind of Service Provider**
- Transport
- Finish

Choose the kind of service provider to be generated

- ☒ Backend
- ☐ Enterprise Service Repository
- ☐ Existing ABAP Object (Inside Out)
- ☐ External WSDL/Schema



Back



Continue



Cancel



Finish

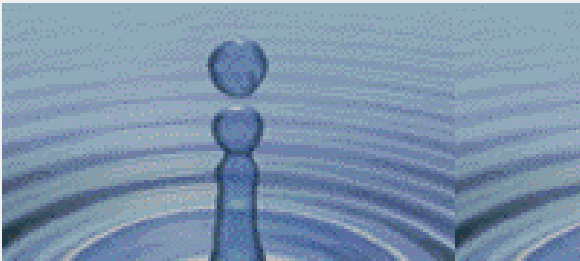
Enterprise Services: Create

Enter external name and namespace (QName) for the **Service Interface** to be created.

☒ [Object Type](#)
☒ [Kind of Service Provider](#)
☒ **QName**
☐ Transport
☐ Finish

Name

Namespace



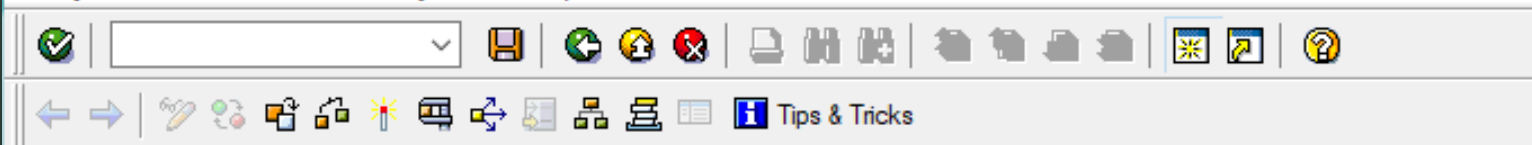
- [Object Type](#)
- [Kind of Service Provider](#)
- [QName](#)
- ▲ **Transport**
- Finish

Enter the package for the new object or check Local Object to use \$TMP.

If already known you may enter the request to be used.
For proxy objects you have the option to specify a prefix.

☐ Local Object

Package	ZST1_AIF_TUT
Request/Task	S5MK903488
Prefix	ZAIF_



Service Provider FlightBooking_01_In New (Revised)

Properties External View Internal View Objects Configuration WSDL Classifications Related Interfaces

Service Provider

Name	FlightBooking_01_In		
Namespace	http://tutorial.com/aif		
ABAP Object	INTF Interface		
ABAP Name	ZAIF_II_FLIGHT_BOOKING_01_IN		
Prefix	ZAIF_		
Source	Backend Metadata Repository		
Description			
Implementing Class	ZAIF_CL_FLIGHT_BOOKING_01_IN		
WebService Definition	ZFlightBooking_01_In		

General Data

Package	ZST1_AIF_TUT		Semant Version	
Original Language	EN English		Leading BO	
Release Status	Not Released			
Created by		on		00:00:00
Changed by		on		00:00:00

Change Service Provider FlightBooking_01_In

Proxy Edit Goto Utilities System Help



Service Provider

FlightBooking_01_In

Inactive

Properties External View Internal View Objects Configuration WSDL Classifications Related Interfaces



ABAP Name

ZAIF_II_FLIGHT_BOOKING_01_IN

Service Provider

Name	FlightBooking_01_In
Namespace	http://tutorial.com/aif
ABAP Object	INTF Interface
ABAP Name	ZAIF_II_FLIGHT_BOOKING_01_IN
Prefix	ZAIF_
Description	
Pattern	Stateless
Security Level	No

Change Service Provider FlightBooking_01_In

Proxy Edit Goto Utilities System Help



Service Provider

FlightBooking_01_In

Inactive

Properties

External View

Internal View

Objects

Configuration

WSDL

Classifications

Related Interfaces



External Name

FlightBooking_01_In

Service Provider

Define operation name

Name

PostBookings_01



Description

Pattern

Stateless

Security Level

No

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.

Proxy Edit Goto Utilities System Help



Service Provider FlightBooking_01_In Inactive

Properties External View Internal View Objects Configuration WSDL Classifications Related Interfaces



ABAP Name

ZAIF_II_FLIGHT_BOOKING_01_IN

POST_BOOKINGS_01

INPUT

AGENCY_DATA

FLIGHT_ID

CLASS_CODE

PASSENGER_NAME

PASSENGER_BIRTHDATE

PASSENGER_FORM_OF_ADDRESS

Operation

Name PostBookings_01

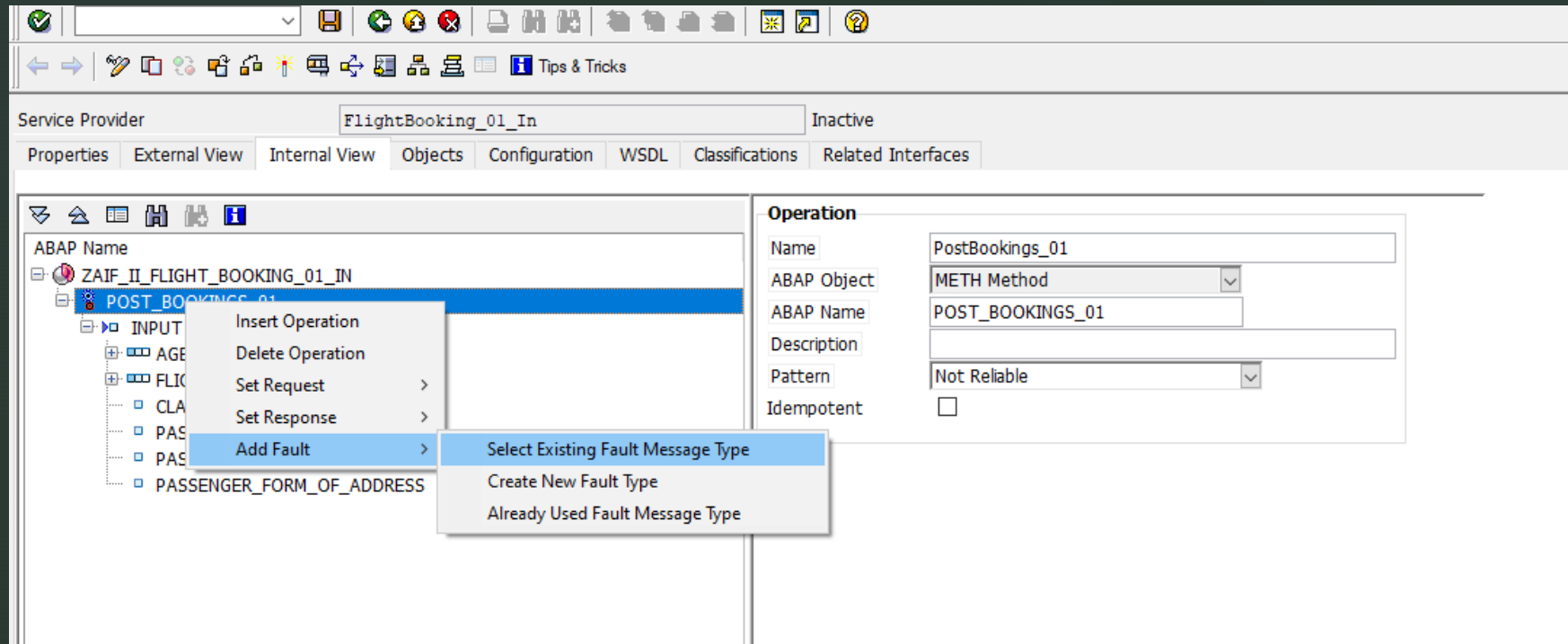
ABAP Object METH Method

ABAP Name POST_BOOKINGS_01

Description

Pattern Not Reliable

Idempotent ☐



Change Service Provider FlightBooking_01_In

Proxy Edit Goto Utilities System Help

Service Provider FlightBooking_01_In Inactive (Revised)

Properties External View Internal View Objects Configuration WSDL Warnings Classifications Related Interfaces

ABAP Name

- ZAIF_II_FLIGHT_BOOKING_01_IN
 - POST_BOOKINGS_01
 - INPUT
 - AGENCY_DATA
 - FLIGHT_ID
 - CLASS_CODE
 - PASSENGER_NAME
 - PASSENGER_BIRTHDATE
 - PASSENGER_FORM_OF_ADDRESS
 - CX_SXIDAL_TECHNICAL_PROBLEMS
 - STANDARD
 - FAULT_TEXT
 - FAULT_URL
 - FAULT_DETAIL

Operation

Name	PostBookings_01
ABAP Object	METH Method
ABAP Name	POST_BOOKINGS_01
Description	
Pattern	Not Reliable
Idempotent	<input type="checkbox"/>

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: lv_bookkey TYPE bapisbokey,
lv_bookdata TYPE bapisbonew,
lt_bapiret TYPE TABLE OF bapiret2.

** Convert input data*

```
lv_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( lt_bapiret[ type = 'E' id = 'BAPI' number = '001' ] ).
```

```
  CALL METHOD cl_proxy_fault=>raise
```

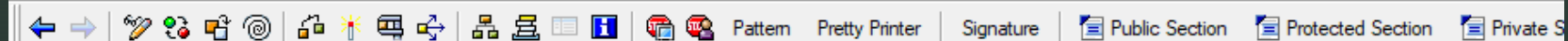
```
  EXPORTING
```

```
    exception_class_name = 'CX_SXIDAL_TECHNICAL_PROBLEMS'
```

```
    bapireturn_tab       = lt_bapiret.
```

```
ENDIF.
```

```
ENDMETHOD.
```

Ty.	Parameter	Typing	Descripti...
INPUT		TYPE SXIDAL_FBO_REQUEST_MT	
	CX_SXIDAL_TECHNICAL_PROBLEMS		

Method ZAIF_II_FLIGHT_BOOKING_01_IN~POST_BOOKINGS_01 active

```

1  method ZAIF_II_FLIGHT_BOOKING_01_IN~POST_BOOKINGS_01.
2  *** **** INSERT IMPLEMENTATION HERE **** ***
3  DATA: lv_bookkey TYPE bapisbokey,
4         lv_bookdata TYPE bapisbonew,
5         lt_bapiret TYPE TABLE OF bapiret2.
6
7  * Convert input data
8      lv_bookdata = VALUE #( airlineid = input-flight_booking_order_request-flight_id-airline_id
9                             connectid = input-flight_booking_order_request-flight_id-connection_id
10                            flightdate = input-flight_booking_order_request-flight_id-flight_date
11                            customerid = '1'
12                            class      = input-flight_booking_order_request-class_code
13                            agencynum = input-flight_booking_order_request-agency_data-agency_id
14                            passname  = input-flight_booking_order_request-passenger_name
15                            passform  = input-flight_booking_order_request-passenger_form_of_address
16                            passbirth = input-flight_booking_order_request-passenger_birthdate ).
17
18  * Call internal flight booking function
19  CALL FUNCTION 'BAPI_FLBOOKING_CREATEFROMDATA'
20  EXPORTING
21      reserve_only = ' '
22      booking_data = lv_bookdata
23  IMPORTING
24      airlineid      = lv_bookkey-airlineid
25      booking_number = lv_bookkey-booking_id

```

Scope: \METHOD ZAIF_II_FLIGHT_BOOKING_01_IN~POST_BOOKINGS_01\IF

ABAP

Ln 37 Col 5

Object(s) activated

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

Display IMG

Implementation Activities Edit Goto Additional Information Utilities System

Navigation bar with icons for: Success, Search, Save, Undo, Redo, Print, Copy, Paste, and a dropdown menu.

Existing BC Sets BC Sets for Activity Activated BC Sets for Activity

Structure

- SAP Application Interface Framework
 - Interface Development
 - Define Namespace
 - Define Interfaces
 - Additional Interface Properties
 - Event Trigger Settings
 - Define Structure Mappings
 - Define Value Mappings
 - Define Fix Values
 - Define Checks
 - Define Actions
 - Interface Variants
 - Error Handling
 - System Configuration

New Entries: Overview of Added Entries

Table View Edit Goto Selection Utilities System Help

Toolbar with icons for: Checkmark, Dropdown menu, Save, Undo, Redo, Delete, Print, Copy, Paste, Find, and a magnifying glass.

Define Namespace			
	NS	Namespace Description	
	DEMO_2	NS for AIF Proxy tutorials	