Creating, Configuring and Testing a Web Service Based on a Function Module

Applies to:

SAP EC6 6.0/7.0. For more information, visit the Web Services homepage.

Summary

The article describes how to create a web service from function module.

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Author Bio

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Concepts

Web Service

A Web service is a software system designed to support interoperable machine-to-machine interaction over a network. Web services are frequently just Web APIs that can be accessed over a network, such as the Internet, and executed on a remote system hosting the requested services.

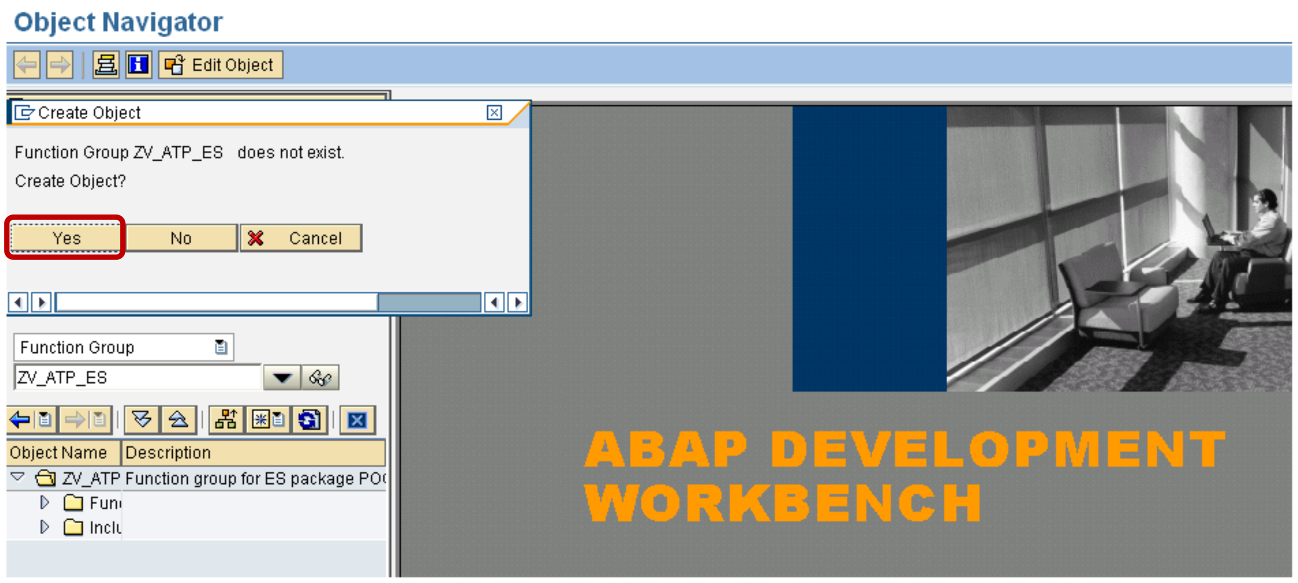
Or

Web service can be defined as any service/functionality available over the internet and related transport protocols which uses a standardized XML messaging system (i.e. SOAP) is not tied to any operating system or programming language.

Creating Function Group

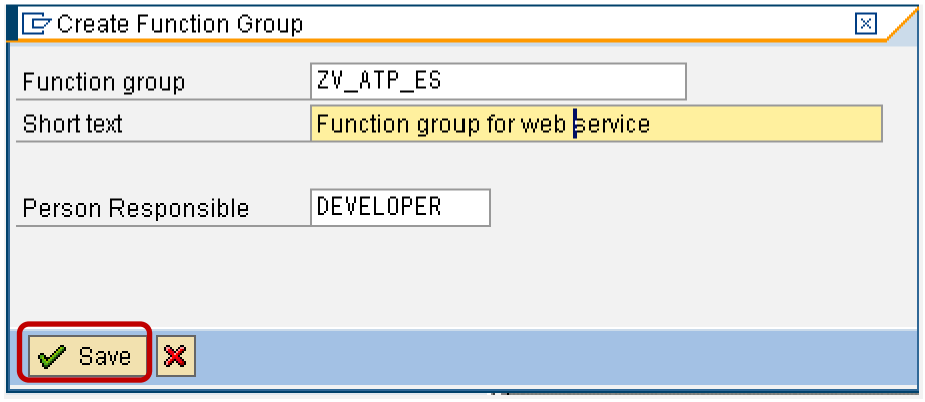
Transaction SE80

Select the “**Function Group”** in the Drop down box on left side plane in the **Object Navigator Screen** and then enter the Function Group name to be created in the input box below the drop down box and then press **ENTER** and click on “**Yes”** button on the pop up window for creating Function Group



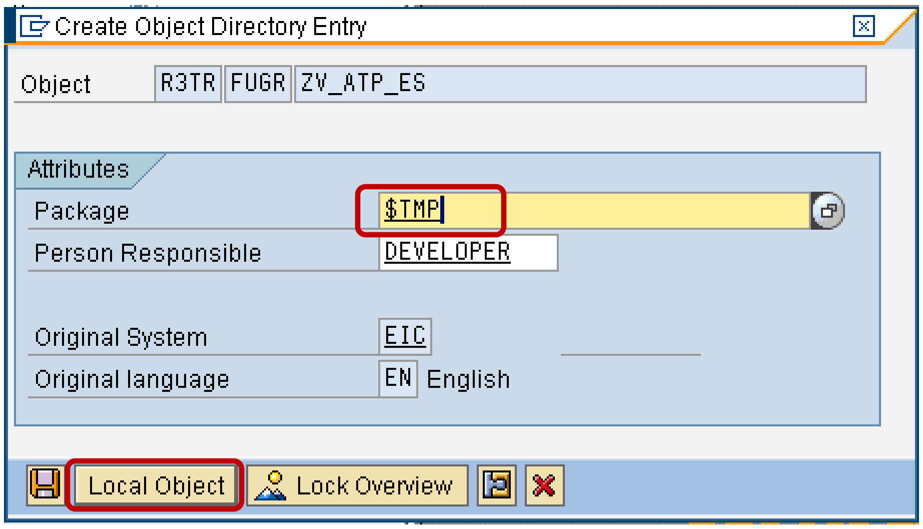
Function Group ZV_ATP_ES does not exist.
Create Object?
Yes
No
Cancel
Function Group
ZV_ATP_ES
Object Name
Description
ZV_ATP Function group for ES package PO
Fun
Inclu
ABAP DEVELOPMENT WORKBENCH

You will get pop up asking for entering short text for Function group, provide a meaningful short text and then “**SAVE**”.



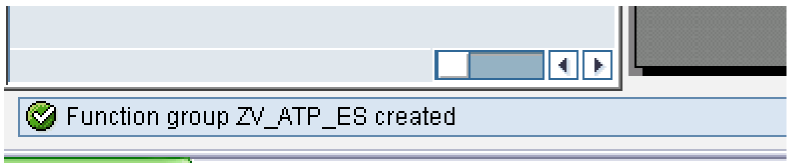
Function group	ZV_ATP_ES
Short text	Function group for web service
Person Responsible	DEVELOPER

While saving it will ask the package under you want to save, you can provide **$TMP** (for Local Object) or the any package name as per your requirement. Then click on "**SAVE**".



Object	R3TR	FUGR	ZV_ATP_ES
Package	$TMP		
Person Responsible	DEVELOPER		
Original System	EIC		
Original language	EN	English	

You will get a message saying Function Group has been created as per below screen shot

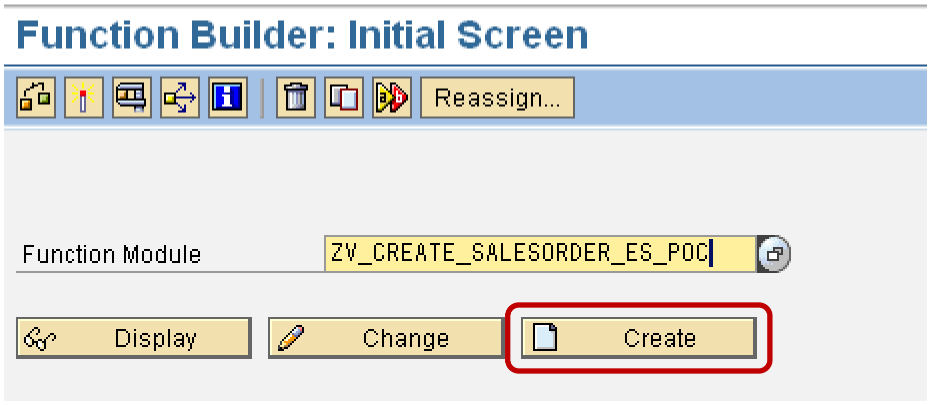


Function group ZV_ATP_ES created

Creating Function module

Transaction SE37

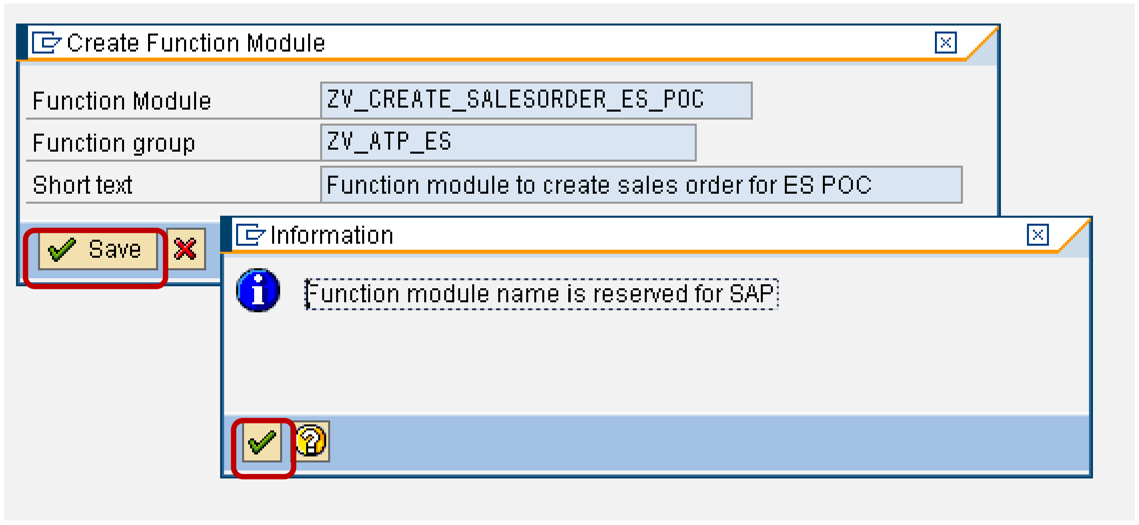
Enter the Function Module name to be created and click on "**Create**"



Function Builder: Initial Screen

Function Module ZV_CREATE_SALESORDER_ES_POC

Enter the **Function group** name and **Short text** for function module in the pop up window as per below screen and click on "**SAVE**", then you will get a pop up saying "**Function module name is reserved for SAP**", click on "**Continue**".



Create Function Module

Function Module ZV_CREATE_SALESORDER_ES_POC

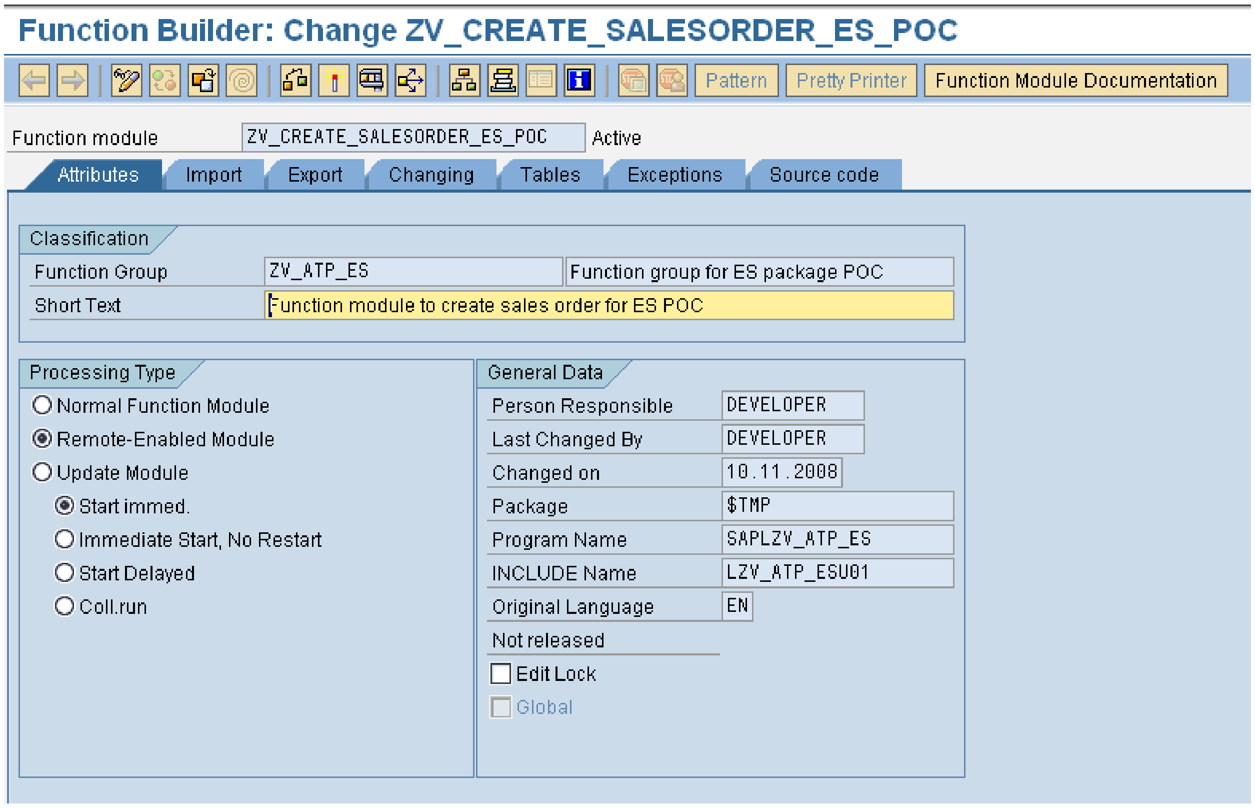
Function group ZV_ATP_ES

Short text Function module to create sales order for ES POC

Information

Function module name is reserved for SAP

Then it will take you to “**Function Builder**” screen as in below screen shot and enter meaningful values And a very important thing is to make the function module “**Remote-Enabled Module**”.



Function Builder: Change ZV_CREATE_SALESORDER_ES_POC

Function module: ZV_CREATE_SALESORDER_ES_POC Active

Classification

Function Group	ZV_ATP_ES	Function group for ES package POC
Short Text	Function module to create sales order for ES POC	

Processing Type

- Normal Function Module
- [✓ Remote-Enabled Module]
- Update Module
  - [✓ Start immed.]
  - Immediate Start, No Restart
  - Start Delayed
  - Coll.run

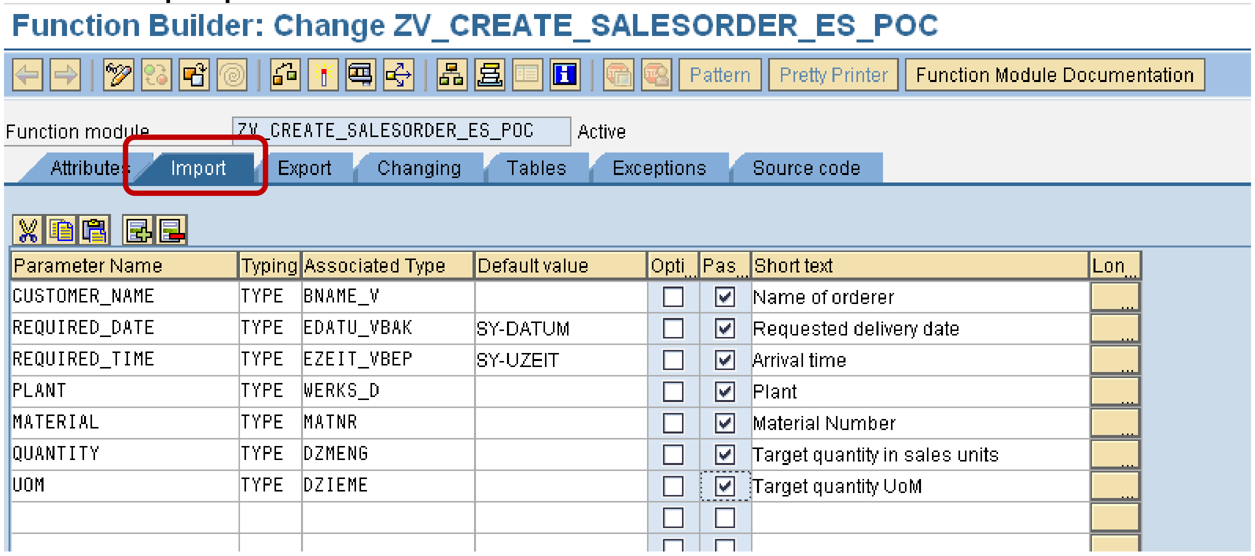
General Data

Person Responsible	DEVELOPER
Last Changed By	DEVELOPER
Changed on	10.11.2008
Package	$TMP
Program Name	SAPLZV_ATP_ES
INCLUDE Name	LZV_ATP_ESU01
Original Language	EN

Not released

☐ Edit Lock
☐ Global

Define the **Import parameters** for Function module

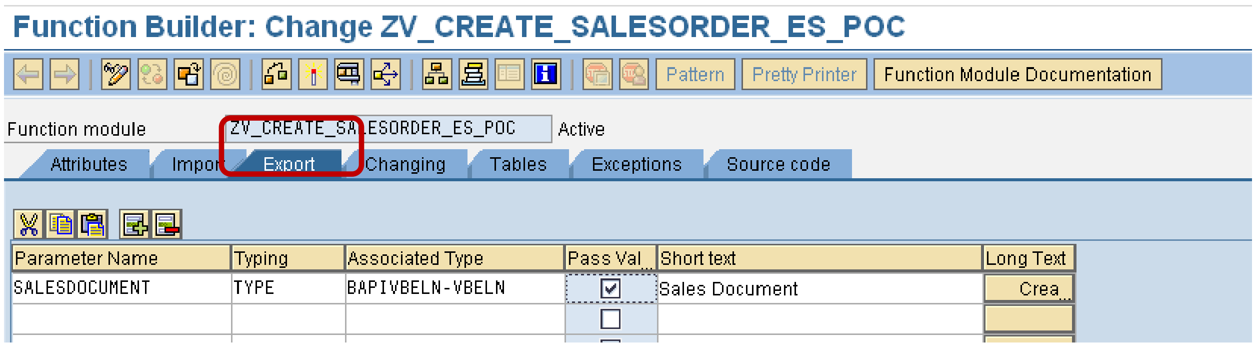


Function Builder: Change ZV_CREATE_SALESORDER_ES_POC

Function module: ZV_CREATE_SALESORDER_ES_POC Active

Parameter Name	Typing	Associated Type	Default value	Opti...	Pas...	Short text	Lon...
CUSTOMER_NAME	TYPE	BNAME_V		☐	☑	Name of orderer	
REQUIRED_DATE	TYPE	EDATU_VBAK	SY-DATUM	☐	☑	Requested delivery date	
REQUIRED_TIME	TYPE	EZEIT_VBEP	SY-UZEIT	☐	☑	Arrival time	
PLANT	TYPE	WERKS_D		☐	☑	Plant	
MATERIAL	TYPE	MATNR		☐	☑	Material Number	
QUANTITY	TYPE	DZMENG		☐	☑	Target quantity in sales units	
UOM	TYPE	DZIEME		☐	☑	Target quantity UoM	
				☐	☐		

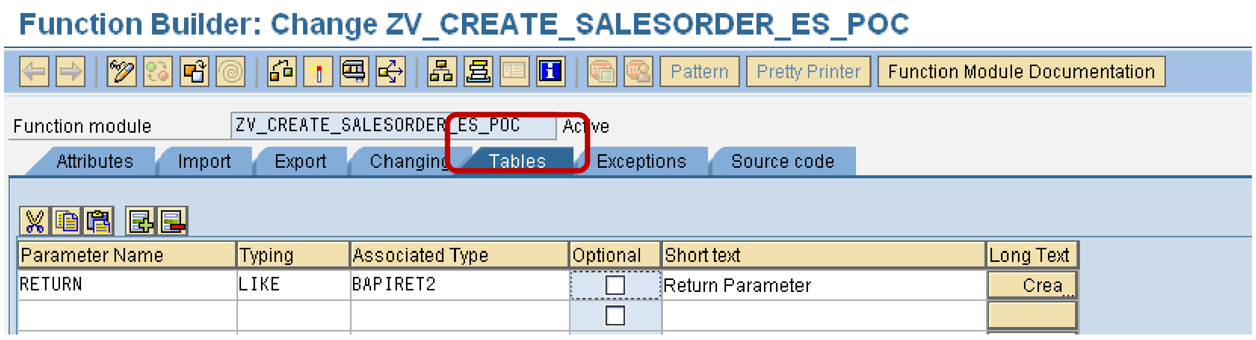
Define the **Export parameters** for Function module


Function Builder: Change ZV_CREATE_SALESORDER_ES_POC
Pattern
Pretty Printer
Function Module Documentation
Attributes
Import
Export
Changing
Tables
Exceptions
Source code

Function module: ZV_CREATE_SALESORDER_ES_POC Active

Parameter Name	Typing	Associated Type	Pass Val	Short text	Long Text
SALESDOCUMENT	TYPE	BAPIVBELN-VBELN	✓	Sales Document	Crea
			☐		

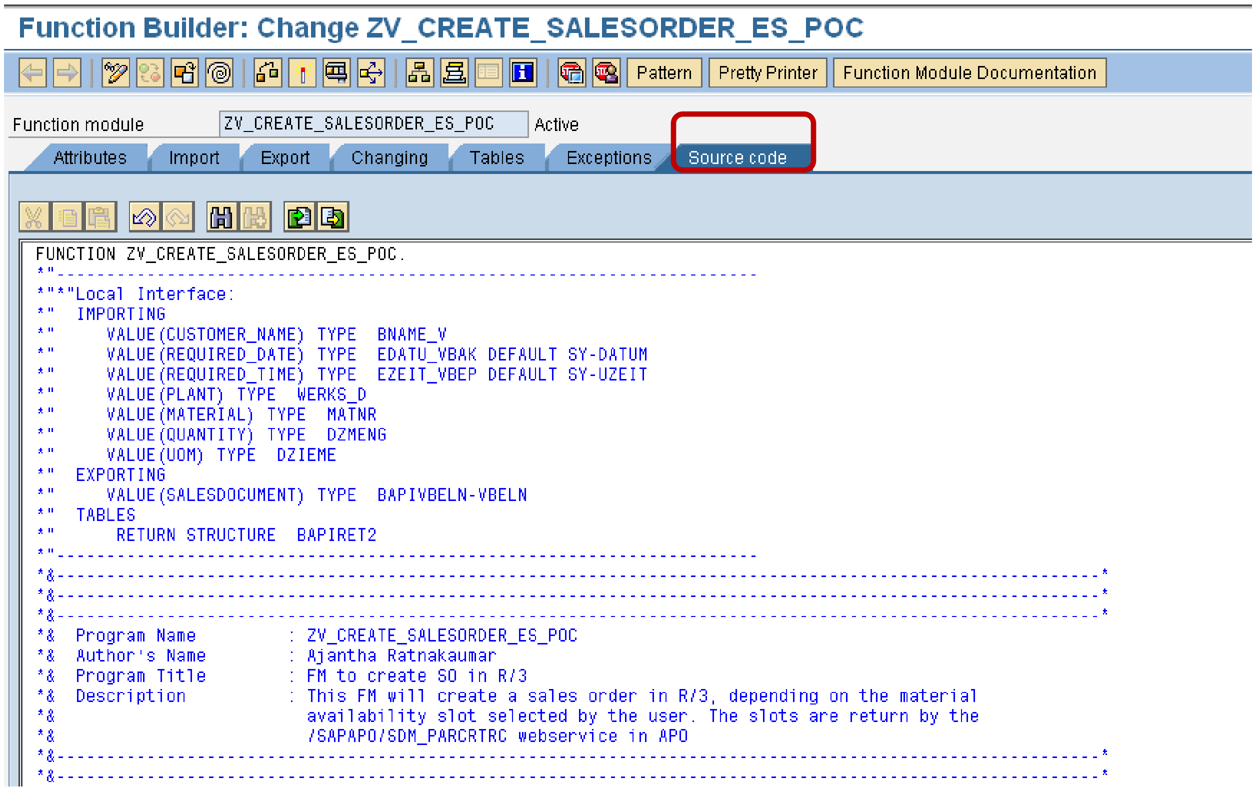
Define the **tables** for Function module


Function Builder: Change ZV_CREATE_SALESORDER_ES_POC
Pattern
Pretty Printer
Function Module Documentation
Attributes
Import
Export
Changing
Tables
Exceptions
Source code

Function module: ZV_CREATE_SALESORDER_ES_POC Active

Parameter Name	Typing	Associated Type	Optional	Short text	Long Text
RETURN	LIKE	BAPIRET2	☐	Return Parameter	Crea
			☐		

One of the important things to be done is **commenting and maintaining header information** for the function module which gives information about the function module


Function Builder: Change ZV_CREATE_SALESORDER_ES_POC
Pattern
Pretty Printer
Function Module Documentation
Attributes
Import
Export
Changing
Tables
Exceptions
Source code

Function module: ZV_CREATE_SALESORDER_ES_POC Active

```
FUNCTION ZV_CREATE_SALESORDER_ES_POC.
*"----------------------------------------------------------------------
*"*"Local Interface:
*"  IMPORTING
*"     VALUE(CUSTOMER_NAME) TYPE  BNAME_V
*"     VALUE(REQUIRED_DATE) TYPE  EDATU_VBAK DEFAULT SY-DATUM
*"     VALUE(REQUIRED_TIME) TYPE  EZEIT_VBEP DEFAULT SY-UZEIT
*"     VALUE(PLANT) TYPE  WERKS_D
*"     VALUE(MATERIAL) TYPE  MATNR
*"     VALUE(QUANTITY) TYPE  DZMENG
*"     VALUE(UOM) TYPE  DZIEME
*"  EXPORTING
*"     VALUE(SALESDOCUMENT) TYPE  BAPIVBELN-VBELN
*"  TABLES
*"      RETURN STRUCTURE  BAPIRET2
*"----------------------------------------------------------------------
*&---------------------------------------------------------------------------------*
*&---------------------------------------------------------------------------------*
*&---------------------------------------------------------------------------------*
*&  Program Name          :  ZV_CREATE_SALESORDER_ES_POC
*&  Author's Name         :  Ajantha Ratnakaumar
*&  Program Title         :  FM to create SO in R/3
*&  Description           :  This FM will create a sales order in R/3, depending on the material
*&                           availability slot selected by the user. The slots are return by the
*&                           /SAPAPO/SDM_PARCRTRC webservice in APO
*&---------------------------------------------------------------------------------*
*&---------------------------------------------------------------------------------*
```

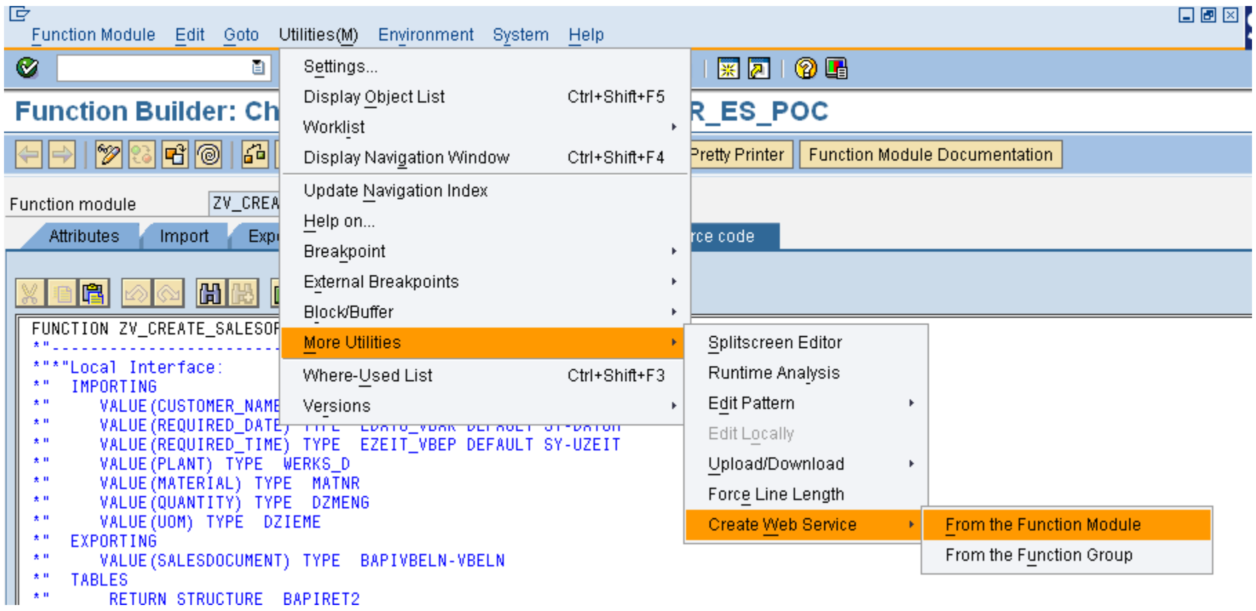
Code

For the example mentioned in document (.i.e. creating a sales order) you can use this code or else the code will change as per your requirement

```
  data : order_header_in   like  bapisdhd1.

  data : order_partners      like  bapiparnr  occurs 0 with header line.
  data : order_schedules_in like  bapischdl  occurs 0 with header line.
  data : order_items_in      like  bapisditm  occurs 0 with header line.
  data : WF_DOC_TYPE type AUART . "value 'OR'.
CALL FUNCTION 'CONVERSION_EXIT_AUART_INPUT'
  EXPORTING
    INPUT          = 'OR'
 IMPORTING
   OUTPUT         = WF_DOC_TYPE

* Fill header data
  order_header_in-doc_type    = WF_DOC_TYPE.
  order_header_in-sales_org   = '5000'.
  order_header_in-distr_chan = '50'.
  order_header_in-division    = '50'.
  order_header_in-name        = customer_name.
  order_header_in-purch_no_c = '1234'.
  order_header_in-req_date_h = required_date.

* Fill order items data
  order_items_in-itm_number = '000010'.
  order_items_in-material   = material.
  order_items_in-plant      = plant.
  order_items_in-target_qty = quantity.
  order_items_in-target_qu  = uom.
  append order_items_in.

* Fill order partners data
  order_partners-partn_role = 'SP'.
  order_partners-partn_numb = customer_name.
  append order_partners.
 * Fill schedule line data
  order_schedules_in-itm_number = '000010'.
  order_schedules_in-sched_line  = '000010'.
  order_schedules_in-req_date    = required_date.
  order_schedules_in-req_qty     = quantity.
  order_schedules_in-date_type   = '1'.
  order_schedules_in-sched_type = 'CP'.
  order_schedules_in-req_time    = required_time.
  append order_schedules_in.
 * Call BAPI to create Salesorder
  call function 'BAPI_SALESORDER_CREATEFROMDAT2'
    exporting
      order_header_in     = order_header_in
 *      convert              = 'X'
    importing
      salesdocument       = salesdocument
    tables
      return              = return
      order_items_in      = order_items_in
      order_partners      = order_partners
      order_schedules_in = order_schedules_in.

 * If salesorder is created sucessfully commit the changes to the database
  if salesdocument is not initial.
    call function 'BAPI_TRANSACTION_COMMIT'
      exporting
        wait = 'X'.
  endif.
ENDFUNCTION.
```

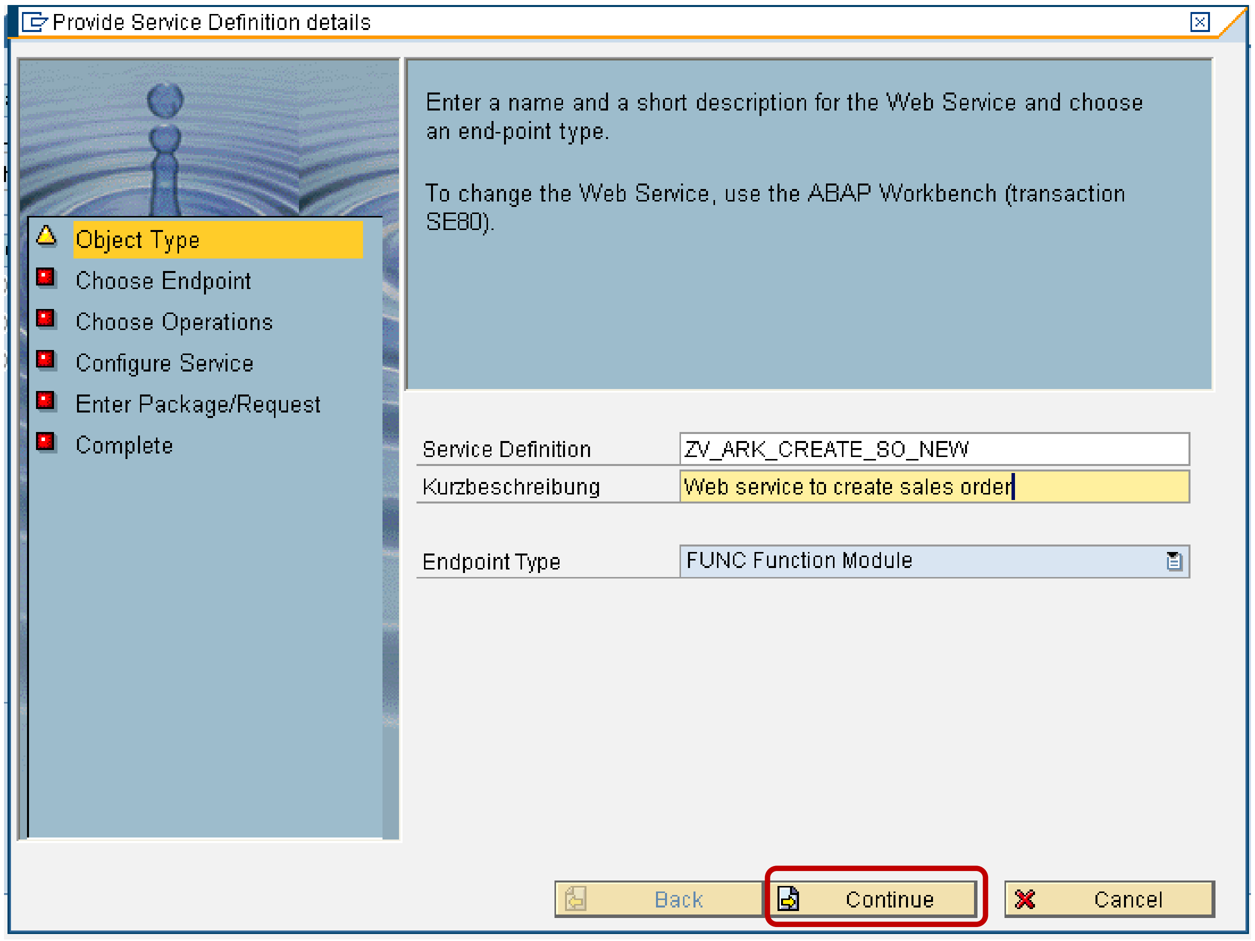
Create Web Service of Function Module

Go to utilities -> More Utilities -> Create Web Service -> From the Function Module



```
FUNCTION ZV_CREATE_SALESOR
*"----------------------------
*"*"Local Interface:
*"  IMPORTING
*"     VALUE(CUSTOMER_NAME
*"     VALUE(REQUIRED_DATE) TYPE  EDATU_VBAK DEFAULT SY-DATUM
*"     VALUE(REQUIRED_TIME) TYPE  EZEIT_VBEP DEFAULT SY-UZEIT
*"     VALUE(PLANT) TYPE  WERKS_D
*"     VALUE(MATERIAL) TYPE  MATNR
*"     VALUE(QUANTITY) TYPE  DZMENG
*"     VALUE(UOM) TYPE  DZIEME
*"  EXPORTING
*"     VALUE(SALESDOCUMENT) TYPE  BAPIVBELN-VBELN
*"  TABLES
*"      RETURN STRUCTURE  BAPIRET2
```

Enter **Name** and **Short text** for Service definition and the click on “**Continue”**

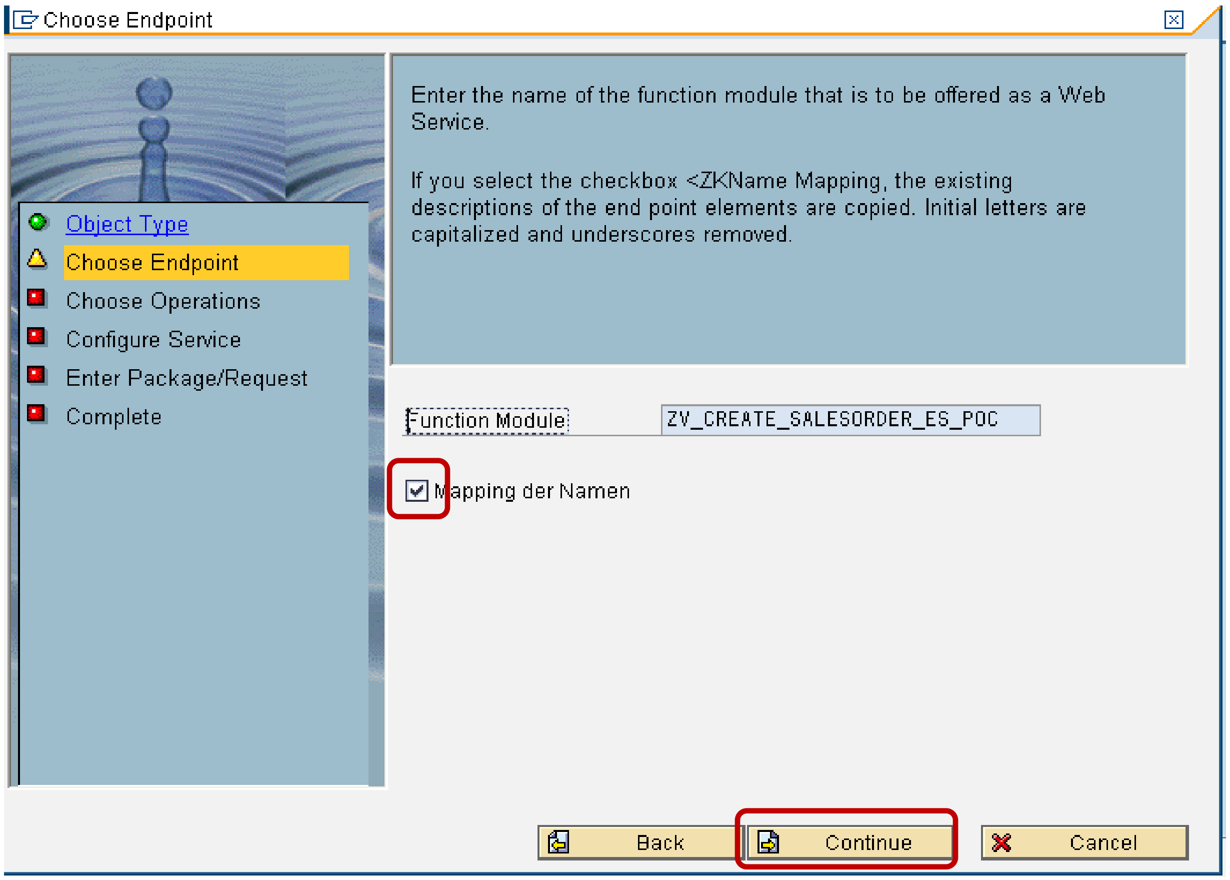


Enter a name and a short description for the Web Service and choose an end-point type.

To change the Web Service, use the ABAP Workbench (transaction SE80).

Service Definition	ZV_ARK_CREATE_SO_NEW
Kurzbeschreibung	Web service to create sales order
Endpoint Type	FUNC Function Module

Check the Check box for **Mapping** so that the import and export parameters of Function Module are mapped with that of the Web Service to be created.



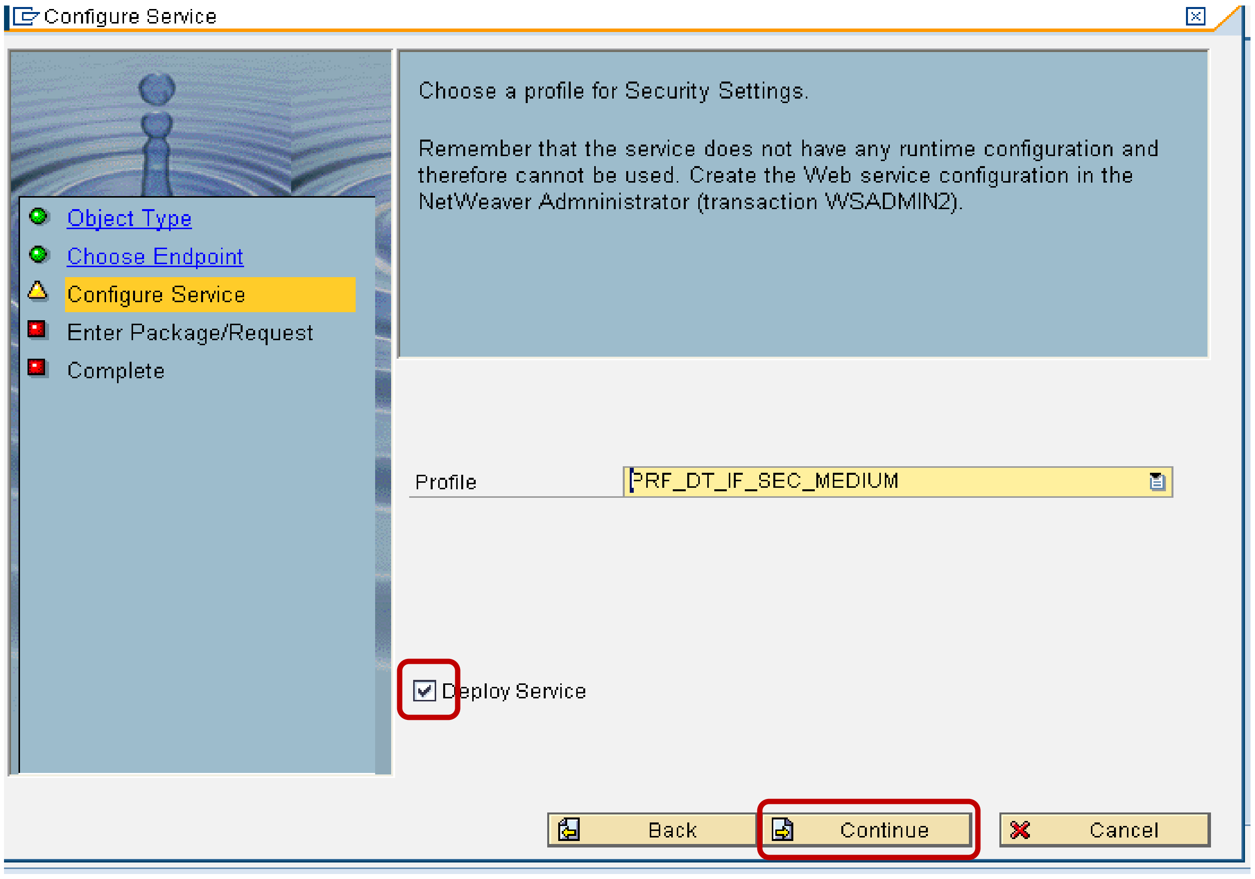
Enter the name of the function module that is to be offered as a Web Service.

If you select the checkbox <ZKName Mapping, the existing descriptions of the end point elements are copied. Initial letters are capitalized and underscores removed.

Function Module: ZV_CREATE_SALESORDER_ES_POC

[✓] Mapping der Namen

Check the **Deploment** check box for the service to be avaliable in SOAMANAGER for further processing



Configure Service

- Object Type
- Choose Endpoint
- Configure Service
- Enter Package/Request
- Complete

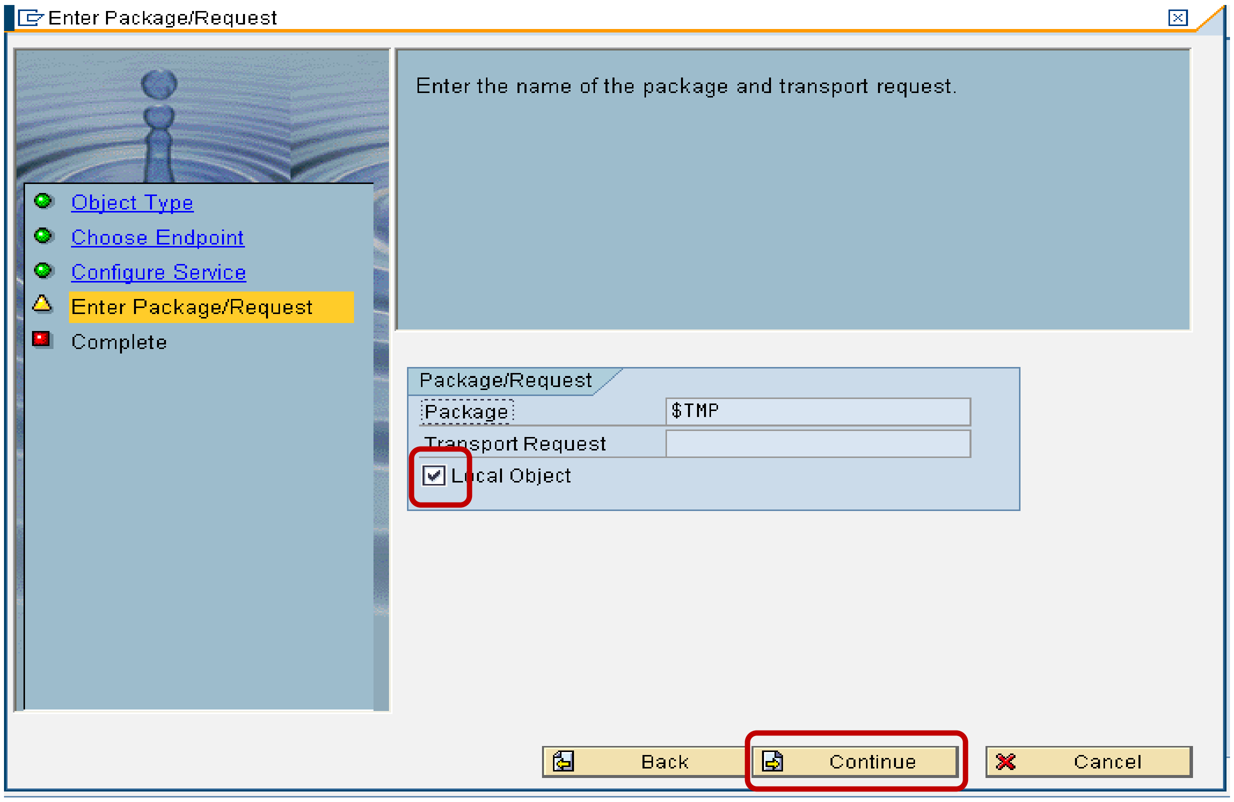
Choose a profile for Security Settings.

Remember that the service does not have any runtime configuration and therefore cannot be used. Create the Web service configuration in the NetWeaver Administrator (transaction WSADMIN2).

Profile PRF_DT_IF_SEC_MEDIUM

[✓] Deploy Service

Here you can select where you want to save the object , In this case I am saving it as local object- $TMP



Enter Package/Request

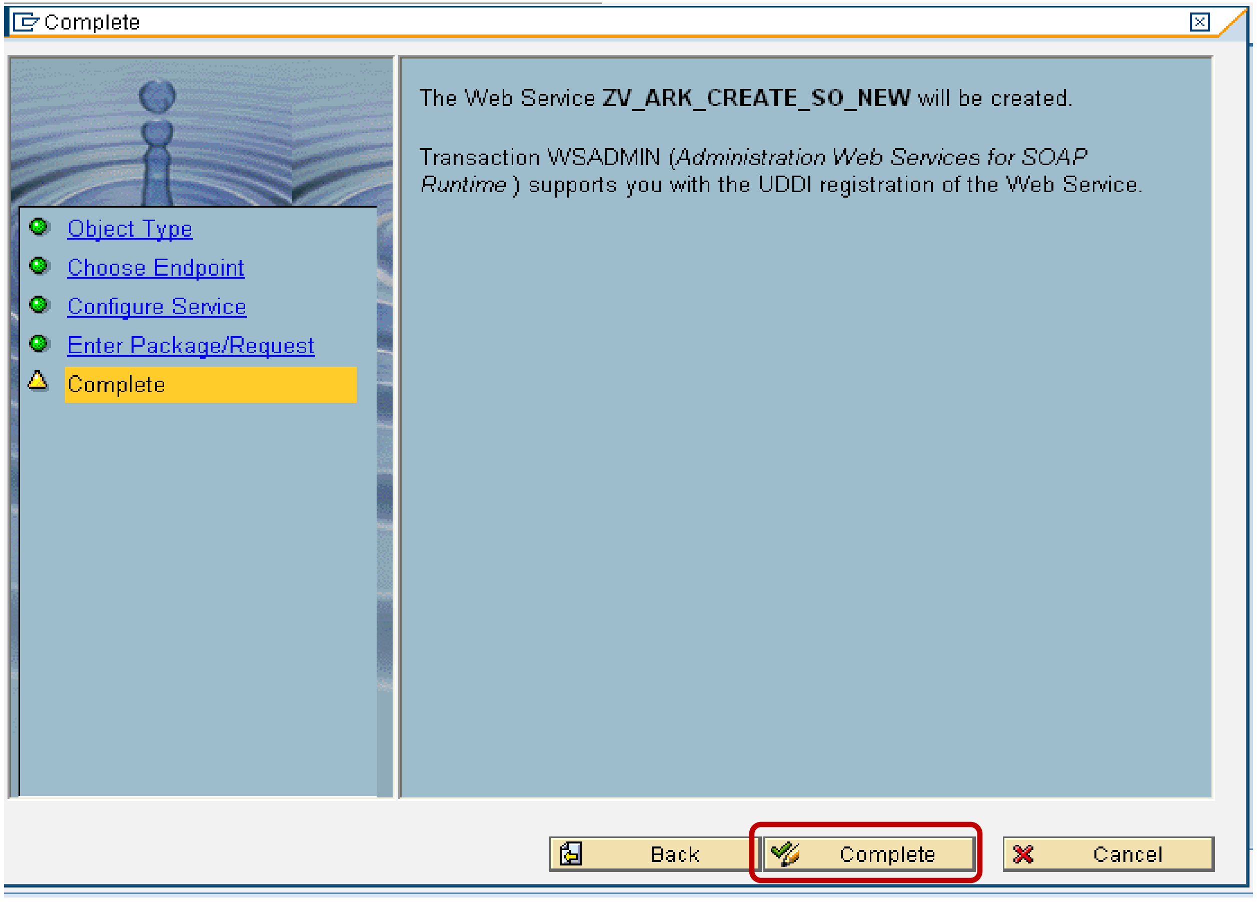
Enter the name of the package and transport request.

Package/Request

Package	$TMP
Transport Request	

[✓] Local Object

Click on "**Completed**" to completed the process of Web Service creation



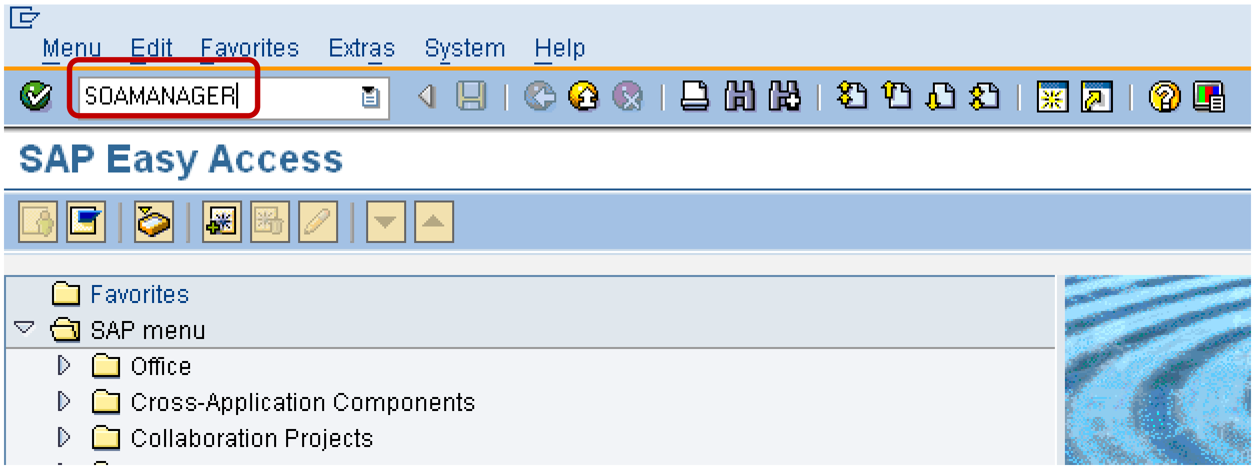
The Web Service **ZV_ARK_CREATE_SO_NEW** will be created.

Transaction WSADMIN (*Administration Web Services for SOAP Runtime*) supports you with the UDDI registration of the Web Service.

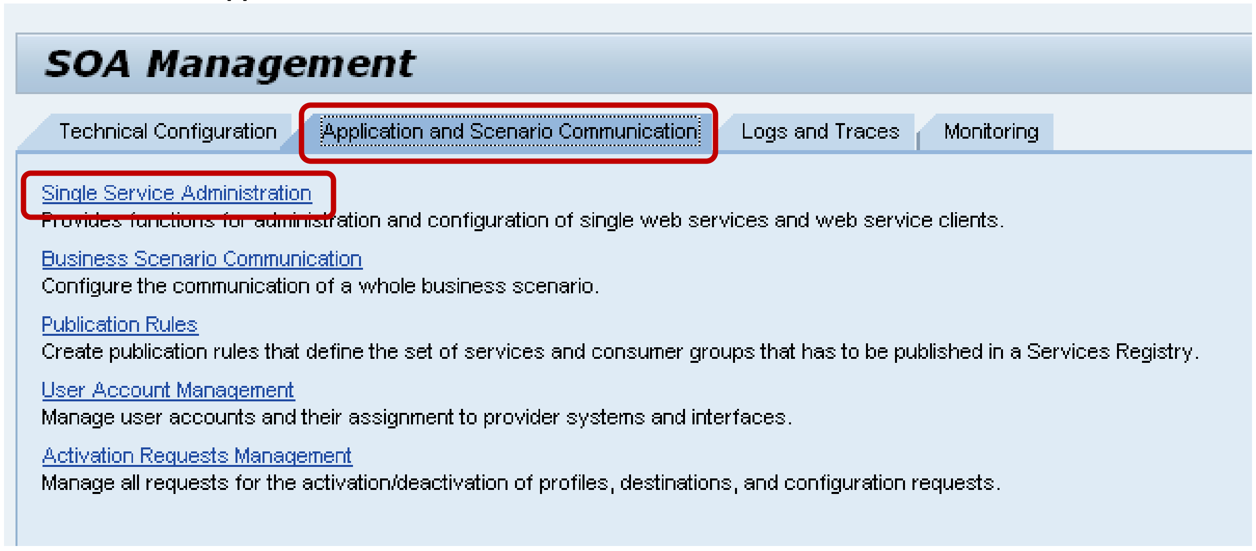
Then you will a message that **web service has been created**.

Executing Web Service from Web Service Navigator

Transaction SOAMANAGER



Click on the tab "**Application and Scenario Communication** "



Single Service Administration
Provides functions for administration and configuration of single web services and web service clients.

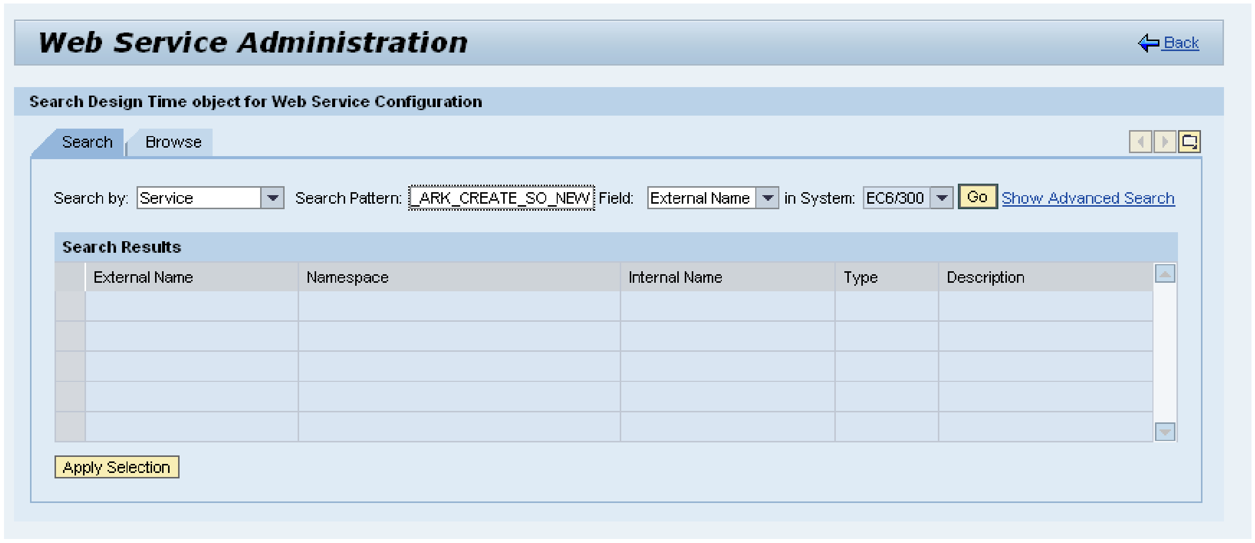
Business Scenario Communication
Configure the communication of a whole business scenario.

Publication Rules
Create publication rules that define the set of services and consumer groups that has to be published in a Services Registry.

User Account Management
Manage user accounts and their assignment to provider systems and interfaces.

Activation Requests Management
Manage all requests for the activation/deactivation of profiles, destinations, and configuration requests.

Then click on “**Single Service Administration**” you will get the below screen where you can enter the service definition name in the Search Pattern. In our case the name will be “ZV_ARK_CREATE_SO_NEW” The click on “**GO**”.

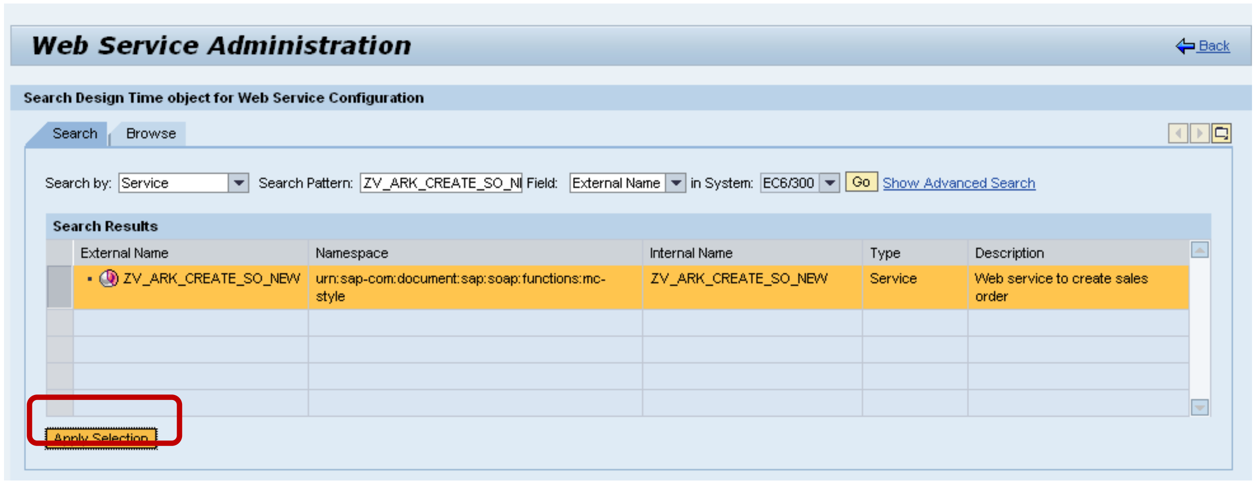

Web Service Administration
Back
Search Design Time object for Web Service Configuration
Search
Browse
Apply Selection

Search by: Service Search Pattern: _ARK_CREATE_SO_NEW Field: External Name in System: EC6/300 Go Show Advanced Search

Search Results

External Name	Namespace	Internal Name	Type	Description

You will get the service in the search Results column. Select the service and then click on “**Apply Selection**”

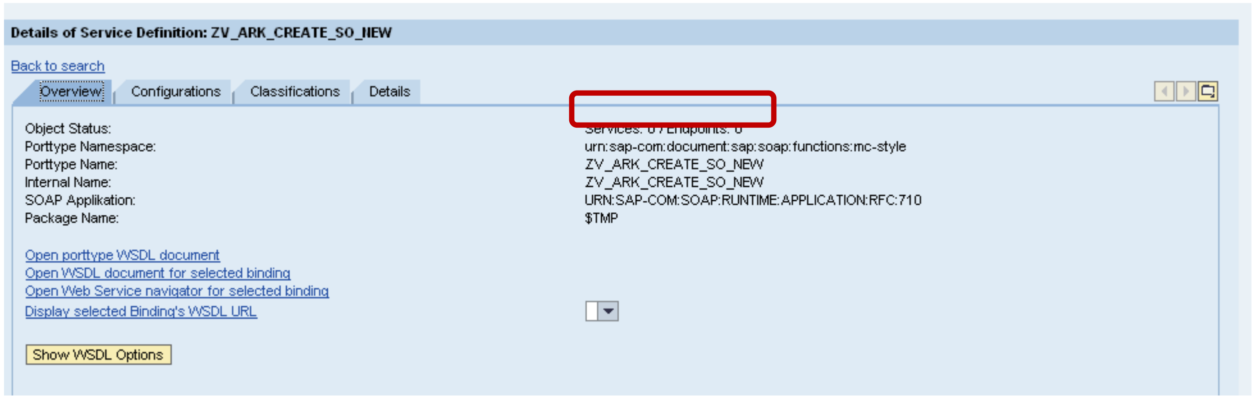

Web Service Administration
Back
Search Design Time object for Web Service Configuration
Search
Browse
Apply Selection

Search by: Service Search Pattern: ZV_ARK_CREATE_SO_NI Field: External Name in System: EC6/300 Go Show Advanced Search

Search Results

External Name	Namespace	Internal Name	Type	Description
ZV_ARK_CREATE_SO_NEW	urn:sap-com:document:sap:soap:functions:mc-style	ZV_ARK_CREATE_SO_NEW	Service	Web service to create sales order

You can see as per the below screen shots, the **service = 0/ Endpoints = 0** for the web service definition selected by us

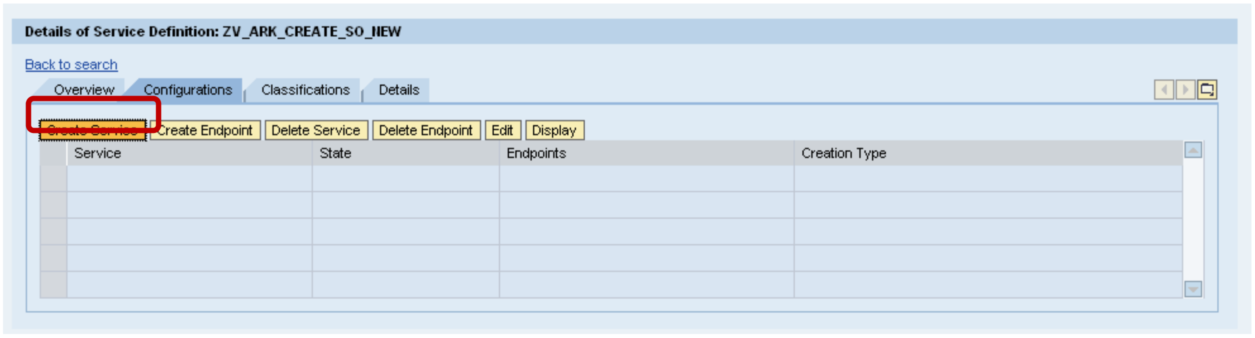


Details of Service Definition: ZV_ARK_CREATE_SO_NEW

Object Status:	Services: 0 / Endpoints: 0
Porttype Namespace:	urn:sap-com:document:sap:soap:functions:mc-style
Porttype Name:	ZV_ARK_CREATE_SO_NEW
Internal Name:	ZV_ARK_CREATE_SO_NEW
SOAP Applikation:	URN:SAP-COM:SOAP:RUNTIME:APPLICATION:RFC:710
Package Name:	$TMP

Open porttype WSDL document
Open WSDL document for selected binding
Open Web Service navigator for selected binding
Display selected Binding's WSDL URL

Now click on **Configurations** tab and then click on "**Create Service**"



Details of Service Definition: ZV_ARK_CREATE_SO_NEW

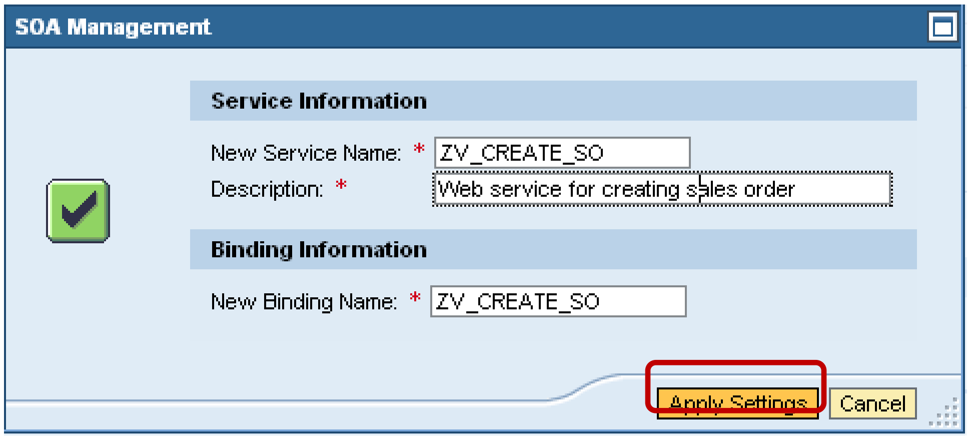
Back to search

Overview | Configurations | Classifications | Details

Create Service | Create Endpoint | Delete Service | Delete Endpoint | Edit | Display

Service	State	Endpoints	Creation Type

You will get a pop up asking for service **name, description and binding name** for it. Enter the values and click on "**Apply Settings**"



SOA Management

Service Information

New Service Name: * ZV_CREATE_SO

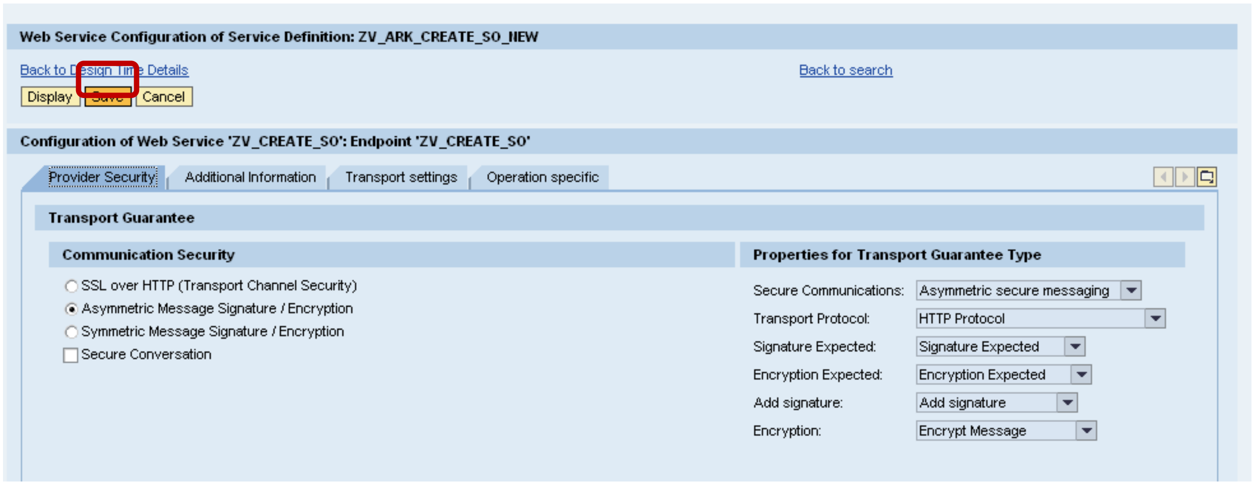
Description: * Web service for creating sales order

Binding Information

New Binding Name: * ZV_CREATE_SO

Apply Settings | Cancel

Then you return to the below mentioned screen where you need to save



Web Service Configuration of Service Definition: ZV_ARK_CREATE_SO_NEW

Back to Design Time Details

Back to search

Display | Save | Cancel

Configuration of Web Service 'ZV_CREATE_SO': Endpoint 'ZV_CREATE_SO'

Provider Security | Additional Information | Transport settings | Operation specific

Transport Guarantee

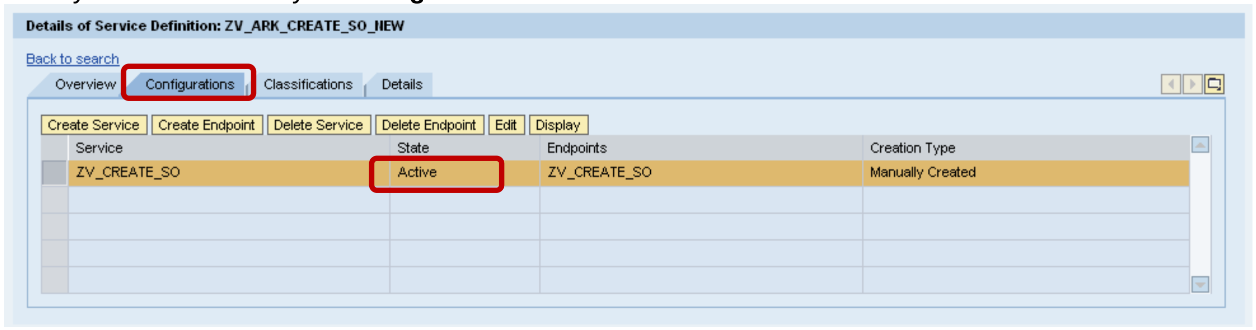
Communication Security

- ( ) SSL over HTTP (Transport Channel Security)
- (•) Asymmetric Message Signature / Encryption
- ( ) Symmetric Message Signature / Encryption
- ☐ Secure Conversation

Properties for Transport Guarantee Type

Secure Communications:	Asymmetric secure messaging
Transport Protocol:	HTTP Protocol
Signature Expected:	Signature Expected
Encryption Expected:	Encryption Expected
Add signature:	Add signature
Encryption:	Encrypt Message

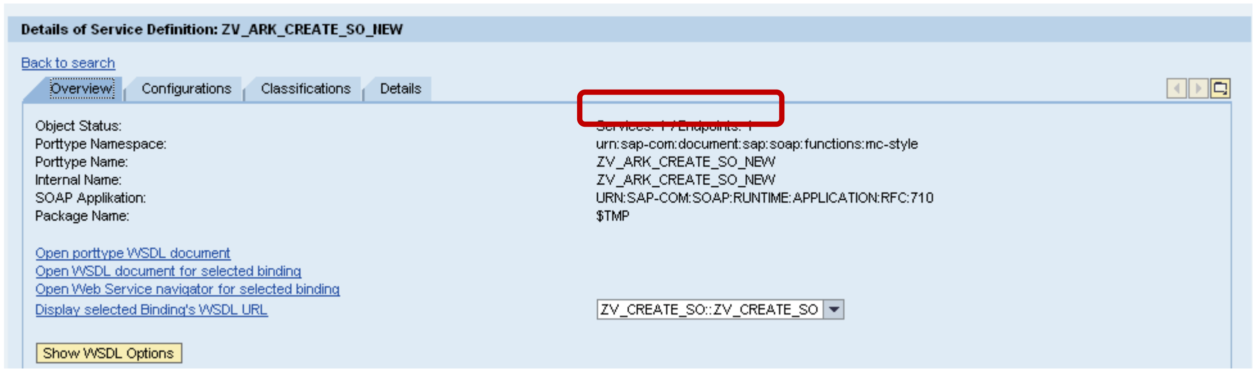
Then you can see a entry in **Configurations** tab. The state of service should be **Active.**


Details of Service Definition: ZV_ARK_CREATE_SO_NEW

Back to search

Service	State	Endpoints	Creation Type
ZV_CREATE_SO	Active	ZV_CREATE_SO	Manually Created

Now click on **Overview** tab you can see the **service =1/ Endpoint=1**

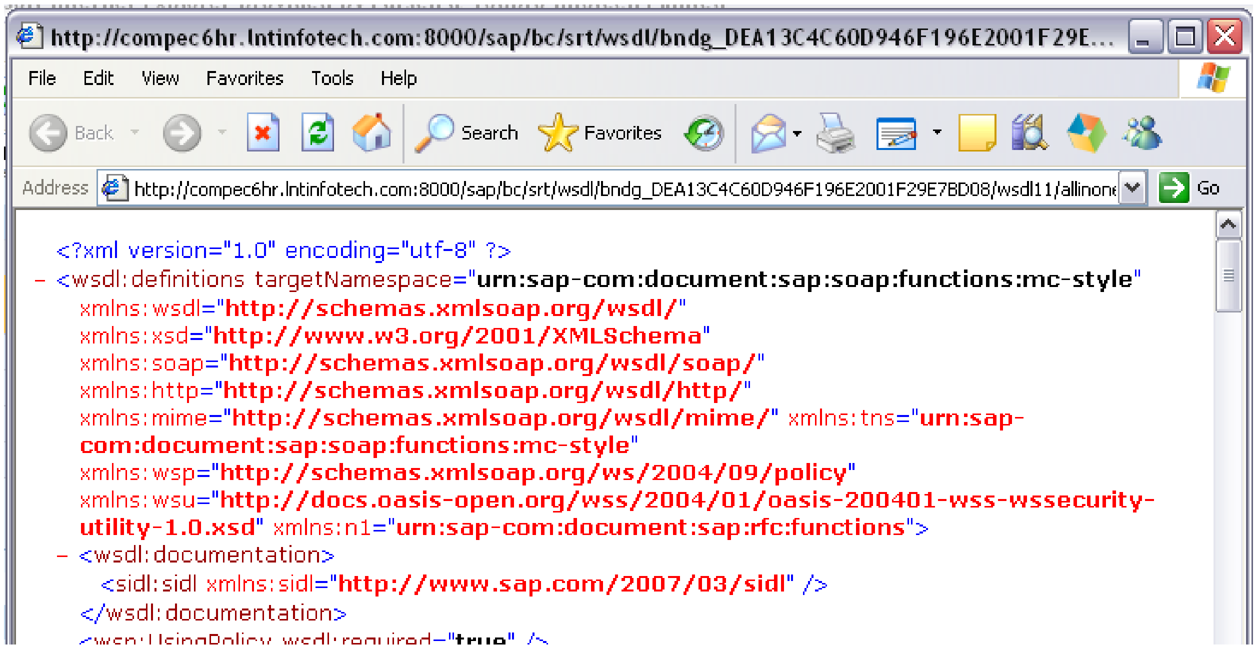

Details of Service Definition: ZV_ARK_CREATE_SO_NEW

Back to search

Object Status:	Services: 1 / Endpoints: 1
Porttype Namespace:	urn:sap-com:document:sap:soap:functions:mc-style
Porttype Name:	ZV_ARK_CREATE_SO_NEW
Internal Name:	ZV_ARK_CREATE_SO_NEW
SOAP Applikation:	URN:SAP-COM:SOAP:RUNTIME:APPLICATION:RFC:710
Package Name:	$TMP

Open porttype WSDL document
Open WSDL document for selected binding
Open Web Service navigator for selected binding
Display selected Binding's WSDL URL ZV_CREATE_SO::ZV_CREATE_SO

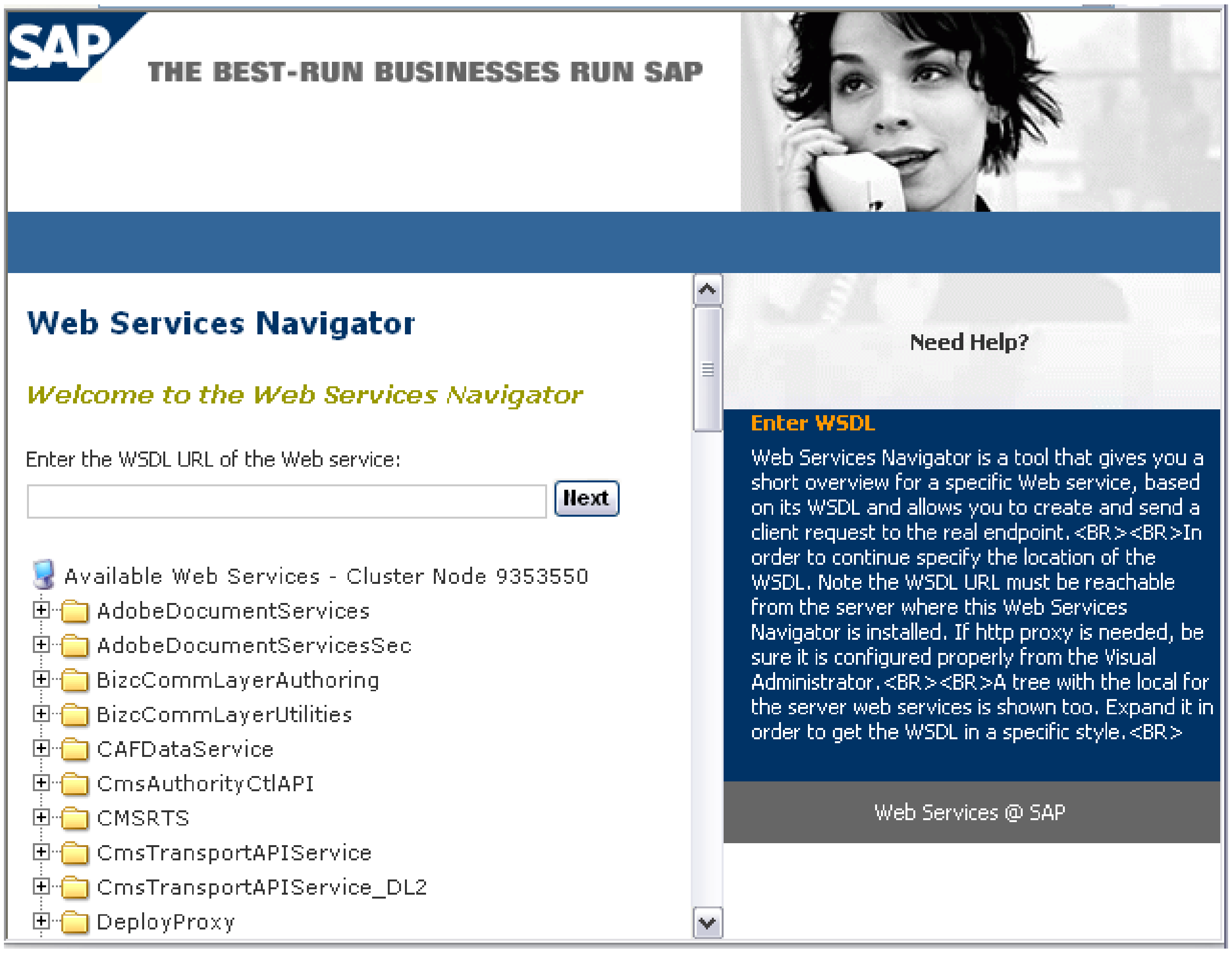
If you click on the "**Open WSDL document for selected binding**" you can see the WSDL of the Web service in XML format


http://compec6hr.lntinfotech.com:8000/sap/bc/srt/wsdl/bndg_DEA13C4C60D946F196E2001F29E...

http://compec6hr.lntinfotech.com:8000/sap/bc/srt/wsdl/bndg_DEA13C4C60D946F196E2001F29E7BD08/wsdl11/allinone

```
  <?xml version="1.0" encoding="utf-8" ?>
- <wsdl:definitions targetNamespace="urn:sap-com:document:sap:soap:functions:mc-style"
    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
    xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/" xmlns:tns="urn:sap-
    com:document:sap:soap:functions:mc-style"
    xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
    xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
    utility-1.0.xsd" xmlns:n1="urn:sap-com:document:sap:rfc:functions">
  - <wsdl:documentation>
      <sidl:sidl xmlns:sidl="http://www.sap.com/2007/03/sidl" />
    </wsdl:documentation>
    <wsp:UsingPolicy wsdl:required="true" />
```

In order to execute the web service through web service navigator click on “**Open Web Service navigator for selected binding**” it will take you to above screen



Web Services Navigator

Welcome to the Web Services Navigator

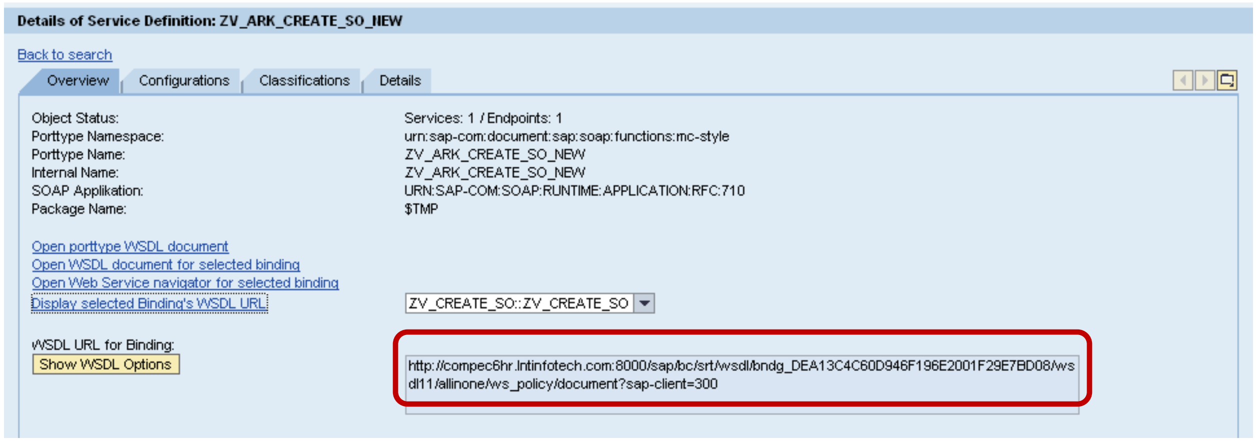
Enter the WSDL URL of the Web service:

Available Web Services - Cluster Node 9353550
- AdobeDocumentServices
- AdobeDocumentServicesSec
- BizcCommLayerAuthoring
- BizcCommLayerUtilities
- CAFDataService
- CmsAuthorityCtlAPI
- CMSRTS
- CmsTransportAPIService
- CmsTransportAPIService_DL2
- DeployProxy

Enter WSDL

Web Services Navigator is a tool that gives you a short overview for a specific Web service, based on its WSDL and allows you to create and send a client request to the real endpoint.<BR><BR>In order to continue specify the location of the WSDL. Note the WSDL URL must be reachable from the server where this Web Services Navigator is installed. If http proxy is needed, be sure it is configured properly from the Visual Administrator.<BR><BR>A tree with the local for the server web services is shown too. Expand it in order to get the WSDL in a specific style.<BR>

Then click on “**Display selected Binding's WSDL URL**” link to get the WSDL URL. You will get a URL displayed on the right and side of the screen



Details of Service Definition: ZV_ARK_CREATE_SO_NEW

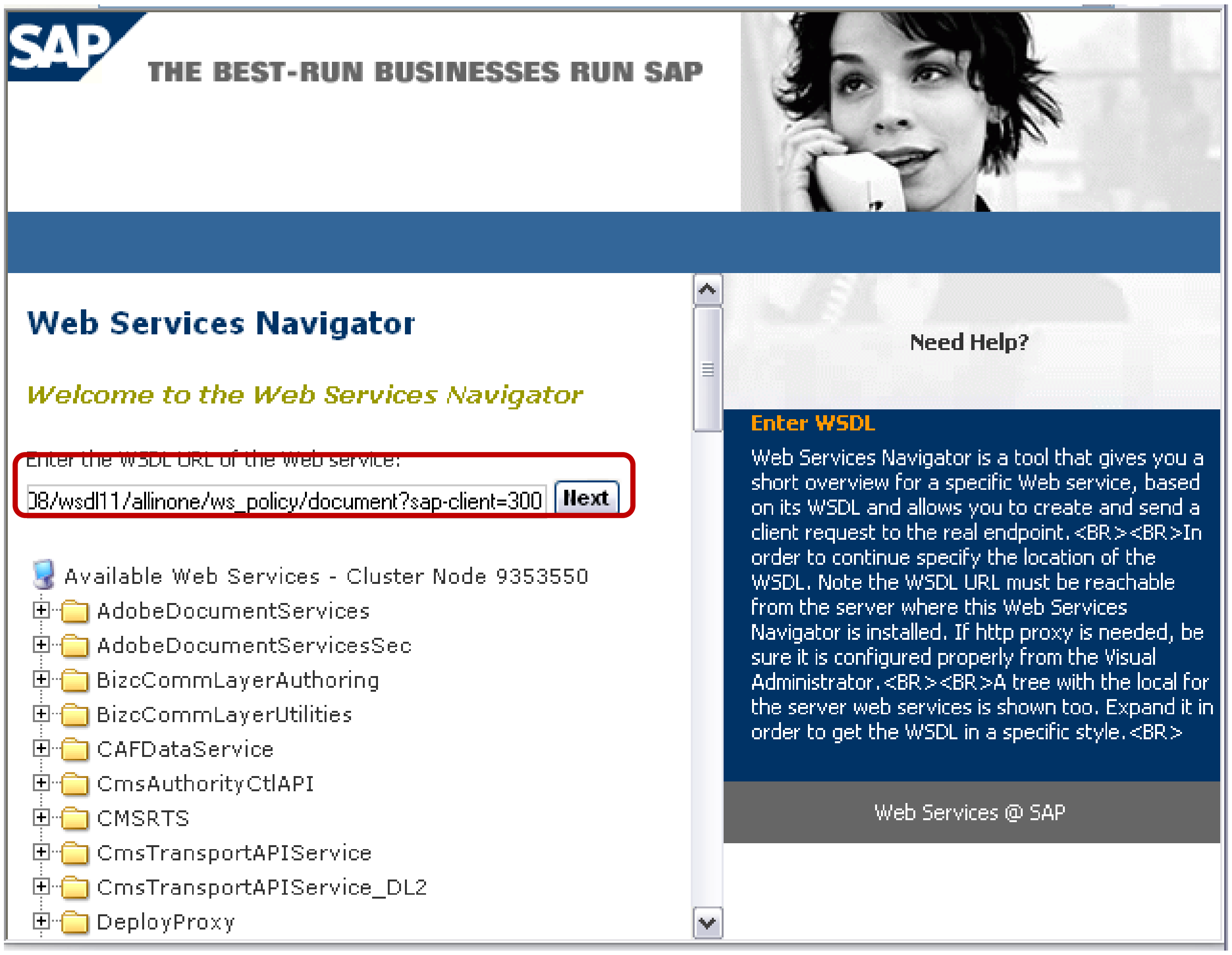
Object Status:	Services: 1 / Endpoints: 1
Porttype Namespace:	urn:sap-com:document:sap:soap:functions:mc-style
Porttype Name:	ZV_ARK_CREATE_SO_NEW
Internal Name:	ZV_ARK_CREATE_SO_NEW
SOAP Applikation:	URN:SAP-COM:SOAP:RUNTIME:APPLICATION:RFC:710
Package Name:	$TMP

Open porttype WSDL document
Open WSDL document for selected binding
Open Web Service navigator for selected binding
Display selected Binding's WSDL URL — ZV_CREATE_SO::ZV_CREATE_SO

WSDL URL for Binding:

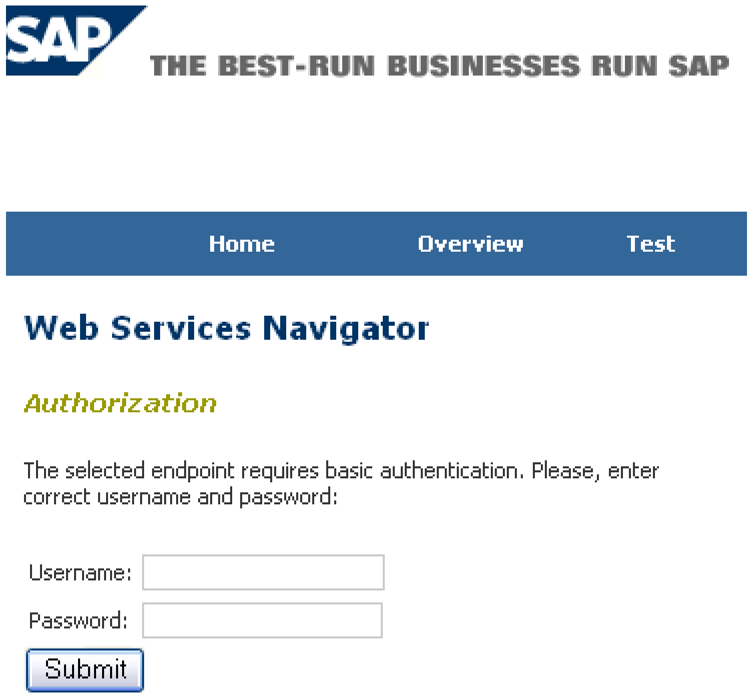
http://compec6hr.lntinfotech.com:8000/sap/bc/srt/wsdl/bndg_DEA13C4C60D946F196E2001F29E7BD08/wsdl11/allinone/ws_policy/document?sap-client=300

Copy – paste the link in the “**Web service Navigator** “screen in the input box below “**Enter the WSDL URL of the Web service:** “and click on “**Next**”.


THE BEST-RUN BUSINESSES RUN SAP
Web Services Navigator
Welcome to the Web Services Navigator
Enter the WSDL URL of the Web service:
08/wsdl11/allinone/ws_policy/document?sap-client=300
Next
Available Web Services - Cluster Node 9353550
AdobeDocumentServices
AdobeDocumentServicesSec
BizcCommLayerAuthoring
BizcCommLayerUtilities
CAFDataService
CmsAuthorityCtlAPI
CMSRTS
CmsTransportAPIService
CmsTransportAPIService_DL2
DeployProxy
Need Help?
Enter WSDL
Web Services @ SAP

Web Services Navigator is a tool that gives you a short overview for a specific Web service, based on its WSDL and allows you to create and send a client request to the real endpoint.<BR><BR>In order to continue specify the location of the WSDL. Note the WSDL URL must be reachable from the server where this Web Services Navigator is installed. If http proxy is needed, be sure it is configured properly from the Visual Administrator.<BR><BR>A tree with the local for the server web services is shown too. Expand it in order to get the WSDL in a specific style.<BR>

It will take u to login screen you need to use the same login as used for SAP logon



Web Services Navigator

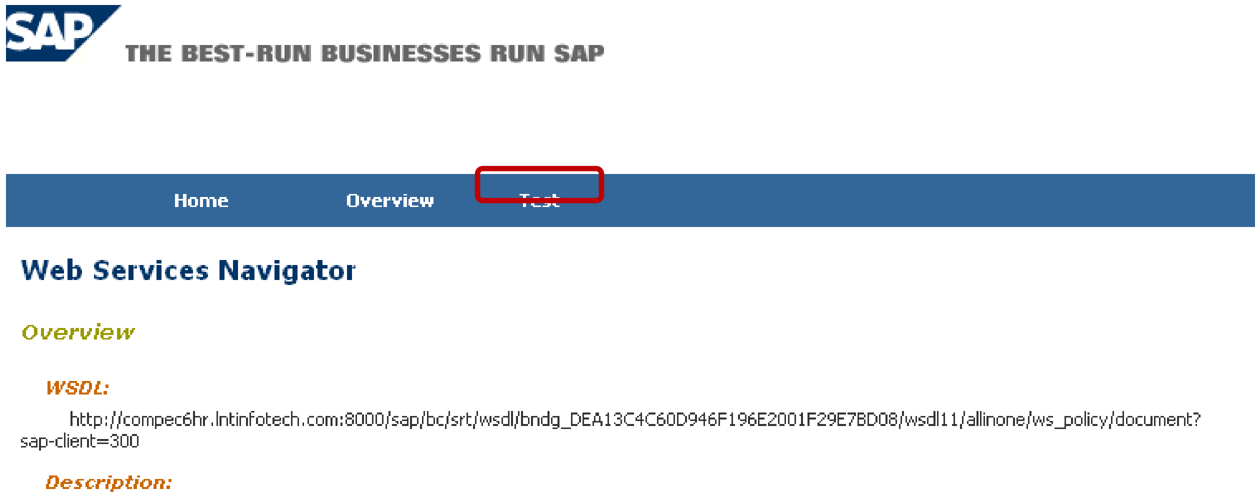
Authorization

The selected endpoint requires basic authentication. Please, enter correct username and password:

Username:

Password:

On this screen, Click on "**Test**"



Web Services Navigator

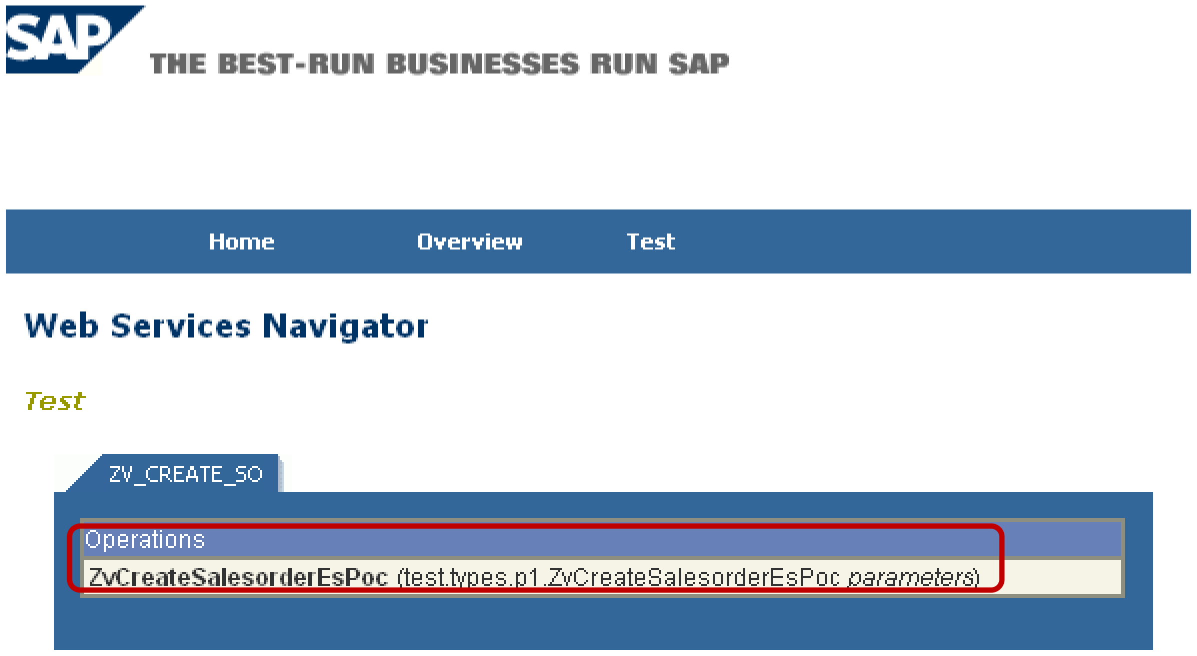
Overview

WSDL:

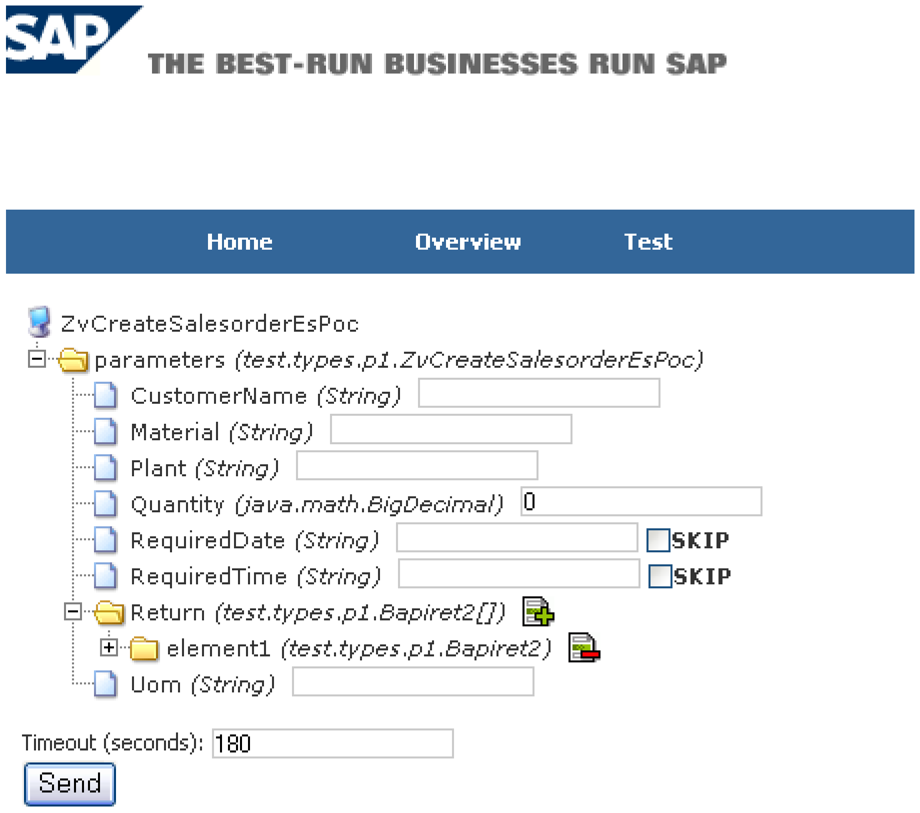
http://compec6hr.lntinfotech.com:8000/sap/bc/srt/wsdl/bndg_DEA13C4C60D946F196E2001F29E7BD08/wsdl11/allinone/ws_policy/document?sap-client=300

Description:

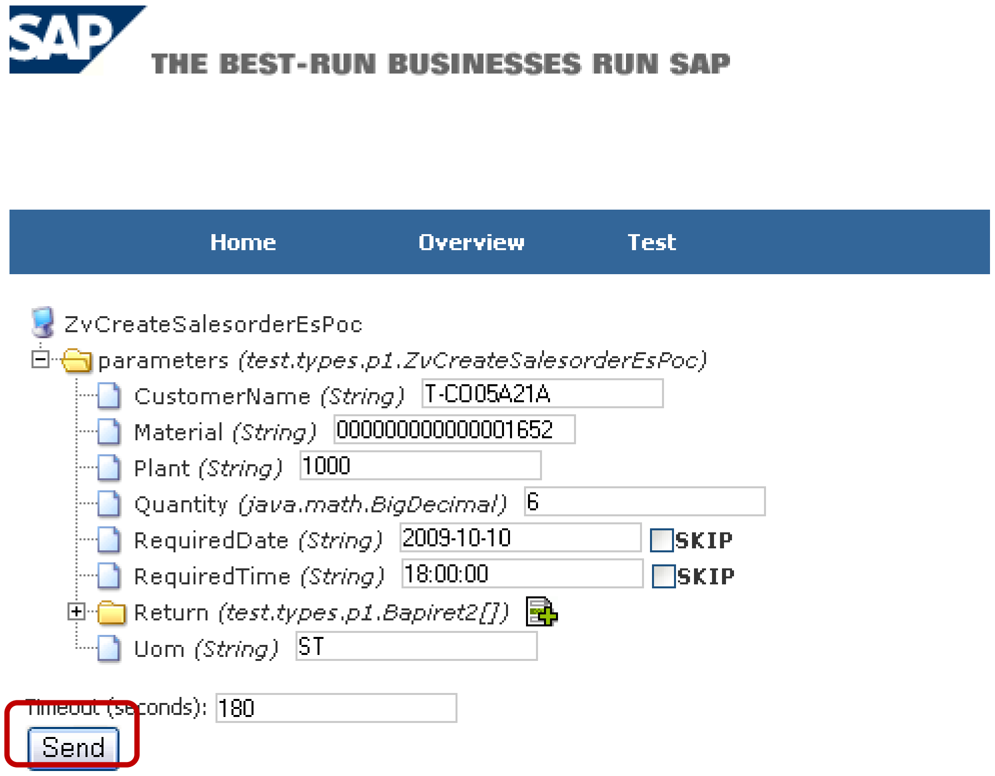
The click on the “ZvCreateSalesorderEsPoc (test.types.p1.ZvCreateSalesorderEsPoc parameters)”


THE BEST-RUN BUSINESSES RUN SAP
Home
Overview
Test
Web Services Navigator
Test
ZV_CREATE_SO
Operations
ZvCreateSalesorderEsPoc (test.types.p1.ZvCreateSalesorderEsPoc parameters)

Enter the values for creating sales order


THE BEST-RUN BUSINESSES RUN SAP
Home
Overview
Test
ZvCreateSalesorderEsPoc
parameters (test.types.p1.ZvCreateSalesorderEsPoc)
CustomerName (String)
Material (String)
Plant (String)
Quantity (java.math.BigDecimal) 0
RequiredDate (String) SKIP
RequiredTime (String) SKIP
Return (test.types.p1.Bapiret2[])
element1 (test.types.p1.Bapiret2)
Uom (String)
Timeout (seconds): 180
Send

After entering the mandatory values for creating sales order, click on “**Send**” .



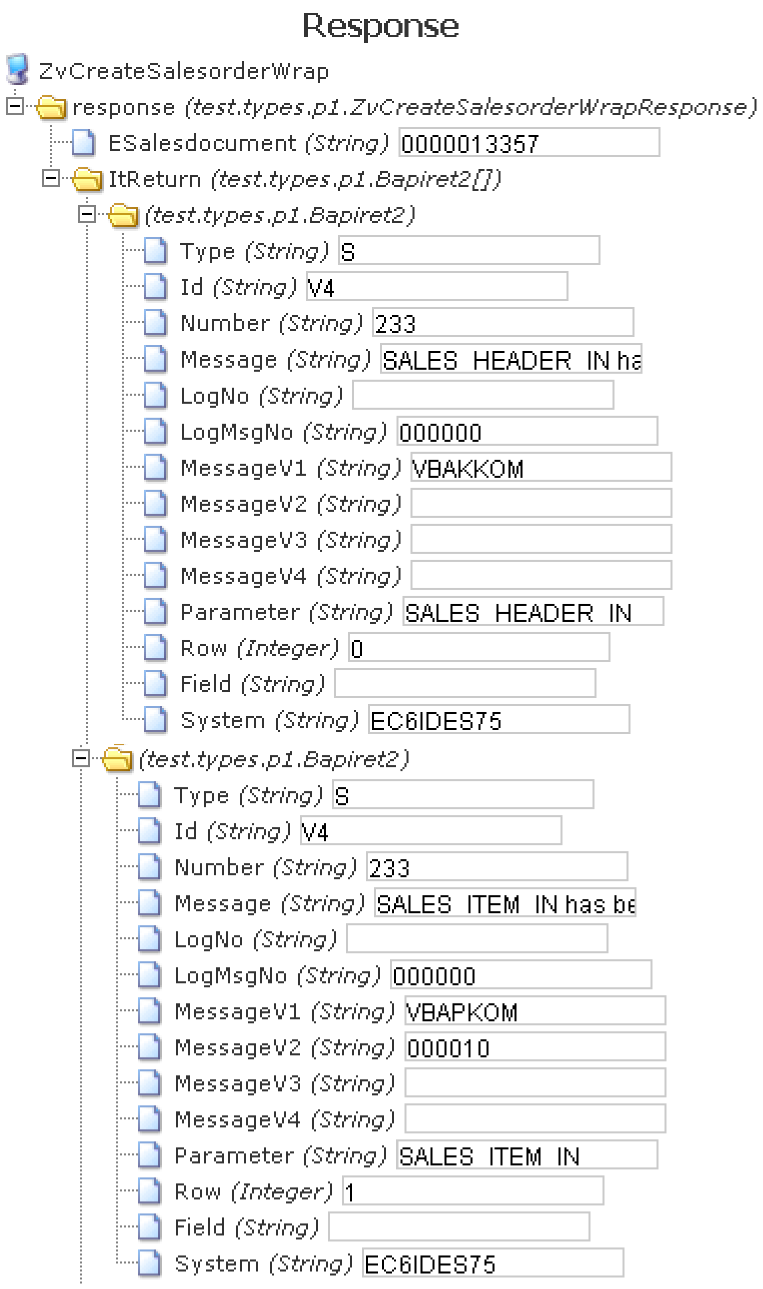
ZvCreateSalesorderEsPoc

parameters *(test.types.p1.ZvCreateSalesorderEsPoc)*

CustomerName *(String)*	T-C005A21A
Material *(String)*	000000000000001652
Plant *(String)*	1000
Quantity *(java.math.BigDecimal)*	6
RequiredDate *(String)*	2009-10-10 ☐ SKIP
RequiredTime *(String)*	18:00:00 ☐ SKIP
Return *(test.types.p1.Bapiret2[])*	
Uom *(String)*	ST

Timeout (seconds): 180

Then you will a the output in the same format



Response

```
ZvCreateSalesorderWrap
response (test.types.p1.ZvCreateSalesorderWrapResponse)
    ESalesdocument (String) 0000013357
    ItReturn (test.types.p1.Bapiret2[])
        (test.types.p1.Bapiret2)
            Type (String) S
            Id (String) V4
            Number (String) 233
            Message (String) SALES_HEADER_IN ha
            LogNo (String)
            LogMsgNo (String) 000000
            MessageV1 (String) VBAKKOM
            MessageV2 (String)
            MessageV3 (String)
            MessageV4 (String)
            Parameter (String) SALES_HEADER_IN
            Row (Integer) 0
            Field (String)
            System (String) EC6IDES75
        (test.types.p1.Bapiret2)
            Type (String) S
            Id (String) V4
            Number (String) 233
            Message (String) SALES_ITEM_IN has be
            LogNo (String)
            LogMsgNo (String) 000000
            MessageV1 (String) VBAPKOM
            MessageV2 (String) 000010
            MessageV3 (String)
            MessageV4 (String)
            Parameter (String) SALES_ITEM_IN
            Row (Integer) 1
            Field (String)
            System (String) EC6IDES75
```

Summary

Web Service can be used in Adobe Flex or any other web-based application to access / communicate with SAP data. ABAP web services can be created when you have custom requirements. There are also standard web services provided by SAP which comes as a part of Enhancement Packages. These standard web service represent standard SAP functionalities like APO ATP check, SO create/change/delete, PO create/change/delete and many more. When more than one web service combined to meet new requirements encapsulating enterprise functionality and exposing it as a reusable business service then that is called as an Enterprise Service.

Related Content

https://wiki.sdn.sap.com/wiki/display/ESpackages/Home

http://www.sdn.sap.com/irj/sdn/explore-es?rid=/webcontent/uuid/f272e75d-0501-0010-1786-ab6ed3496bb1

http://www.sdn.sap.com/irj/sdn/soa

http://www.sdn.sap.com/irj/sdn/enterprisesoa;jsessionid=(J2EE3417400)ID1961175350DB10082480365165855639End?rid=/webcontent/uuid/f07d8153-7edd-2910-aeac-fb940ff1ff71

http://www.sdn.sap.com/irj/sdn/enterprisesoa;jsessionid=(J2EE3417400)ID1961175350DB10082480365165855639End?rid=/webcontent/uuid/e044d87c-ebab-2a10-6482-cd4ff5fa4828

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