

# Configuring Destinations, SLD Technical Systems, Web Dynpro Content Administrator in CE



## Applies to:

Composition environment (CE).

## Summary

In this article we will be looking at how to configure an existing SLD to a CE Server using NetWeaver Administration (NWA) and creating JCo Destinations for Web Dynpro Adaptive RFC Models.

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## What is Adaptive RFC Model?

In the Web Dynpro application, you will connect to the remote SAP system, the backend, using an **adaptive RFC model**. To access database tables, you can make use of existing functions in the form of RFC function modules. For each function module that you need, the system generates a corresponding Java proxy class. All the generated proxy classes and interface are bundled together in the RFC model and treated as part of your Web Dynpro project.

## What is SLD?

The System Landscape Directory is a central repository of information about software and systems in the data center, expressed in a standard schema called the Common Information Model, or CIM.

### Launching SLD

`http://<host>:<port>/sld`

Ex: `http://localhost:50000/sld`

## What is NWA?

A powerful administration, configuration and monitoring tool, which bundles key administrative tasks to keep your SAP NetWeaver system landscape running. SAP NetWeaver Administrator (NWA) can be used in a central or local scenario.

### Launching NWA

`http://<host>:<port>/nwa`

Ex: `http://localhost:50000/nwa`

## What is Content Administration?

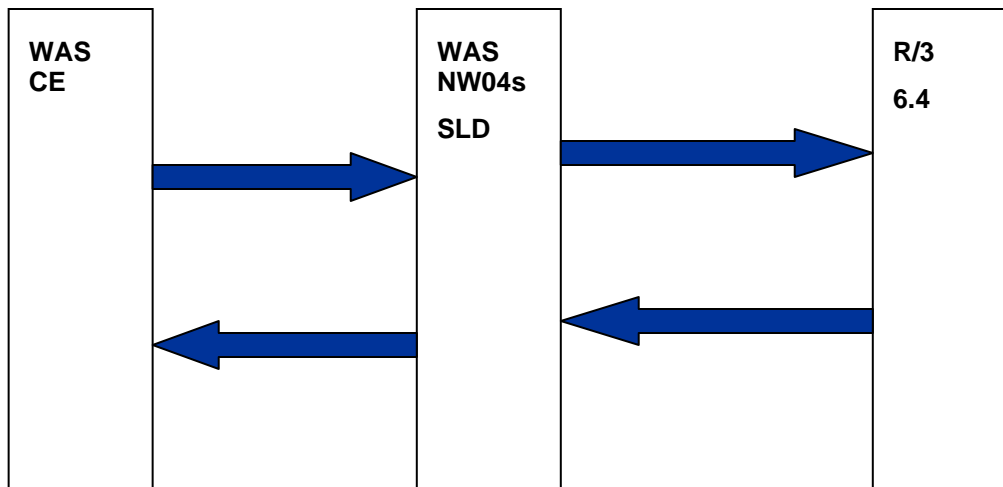
This tool can be used for administration of the Web Dynpro contents you have deployed to the J2EE Engine. If you are using the adaptive RFC model, the tool for application development is used to maintain the JCo destinations and can be seen as an enhancement to the Visual Administrator tool.

### Launching Webdynpro Content Administration

`http://<host>:<port>/ Web Dynpro/welcome/Welcome.jsp`

Ex: `http://localhost:50000/Web Dynpro/welcome/Welcome.jsp`

## Landscape Diagram



### Configuration needed at the CE system to connect to SLD

We need to create two HTTP Destinations

- 1) SLD\_Client
- 2) SLD\_Supplier

Further reading related with the same

[http://help.sap.com/saphelp\\_nw70/helpdata/EN/43/da21ba13660aa5e1000000a1553f6/frameset.htm](http://help.sap.com/saphelp_nw70/helpdata/EN/43/da21ba13660aa5e1000000a1553f6/frameset.htm)

### Steps to create HTTP Destinations using NWA (NetWeaver Administration)

Launch NWA using the following URL <http://<host>:<port>/nwa>

<http://localhost:50000/nwa>


Select Configuration Management -> Infrastructure->Destinations

Welcome Administrator,

Operation Management | **Configuration Management** | Availability and Performance Management

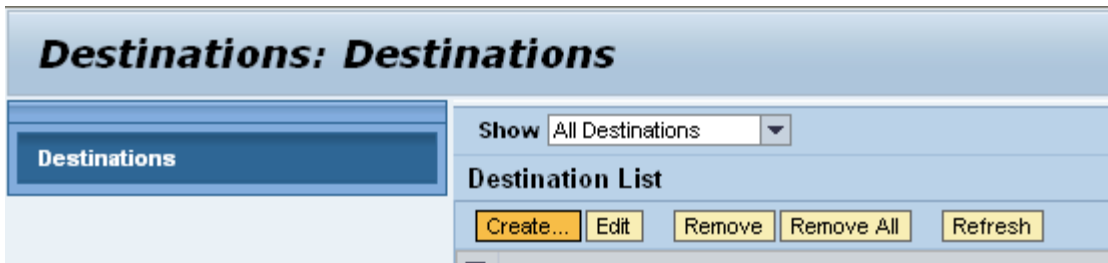
Security | **Infrastructure** | Scenarios

**Infrastructure**

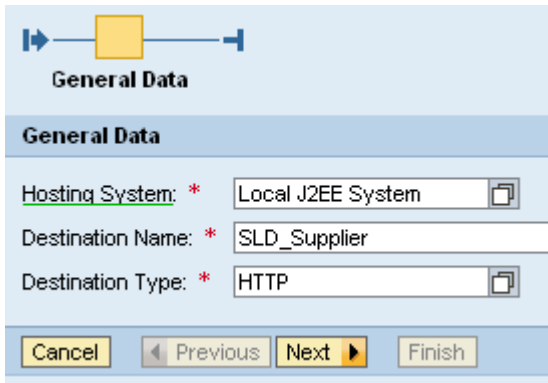
 [Destinations](#)

Applications or services can establish connections to other services. When using such connections, you need to specify the remote service's address and the user authentication information to use for the connection. Many applications use the Destination service for this purpose.

Click on create button

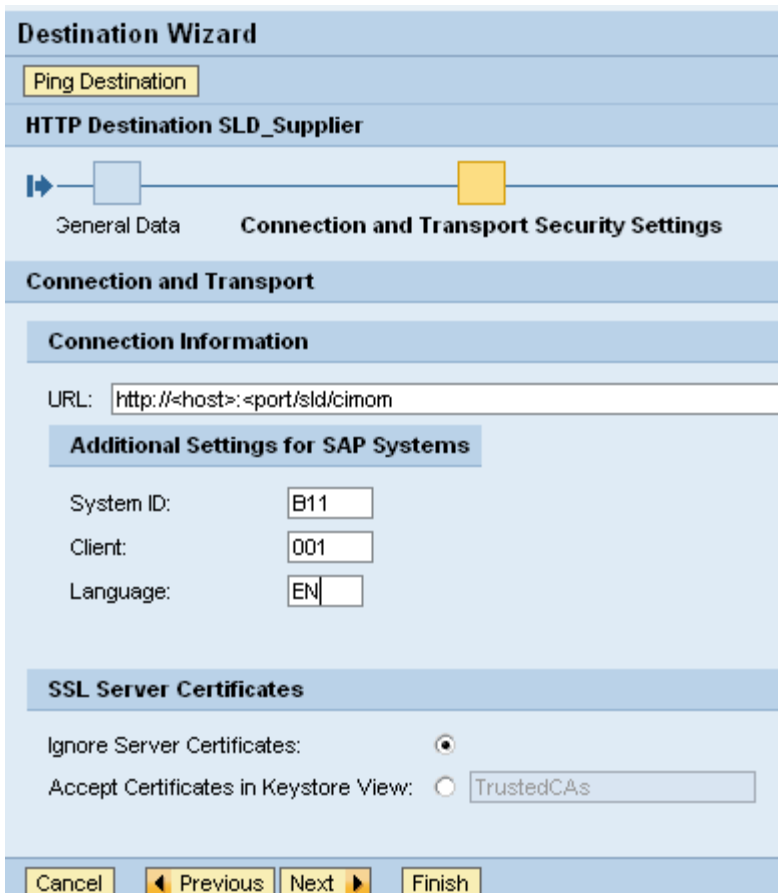


Provide following details



Click Next

Enter the URL of your SLD and system details



Click Next

Provide details of Authentication

**Destination Wizard**

Ping Destination

**HTTP Destination SLD\_Supplier**

General Data      Connection and Transport Security Settings      **Logon Data**

**Logon Data**

Authentication: Basic (User ID and Password)

**Basic Authentication**

User Name: User

Password: .....

Cancel      Previous      Next      Finish

Click on Ping Destination and make sure that you are able to connect to the Destination.

Click on Finish

Similarly create one more HTTP Destination named SLD\_DataSupplier

Testing SLD Connections

## Creating Technical System using SLD

Login to sld using `http://<host>:<port>/sld`

<http://localhost:50000/sld>

**SAP NetWeaver™**  
System Landscape Directory

[Home](#)   [Administration](#)   [Log Off](#)   [Help](#)   [About](#)

**System Landscape Directory (SLD) manages information about all installabl**

**Landscape**

[Technical Systems](#)  
View and Define Systems and Servers

[Landscapes](#)  
View and Configure Groups of Systems

[Business Systems](#)  
View and Configure Business Systems for Use in Exchange Infrastructure (XI)

Click on Technical Systems

**View and Define Systems and Servers**

**Technical Systems**

Technical System Type:  Filter:

Click on New Technical System

1 2 3  
System Type General Central Servers Applik

**Select the type of technical system you want to create**

Web AS ABAP  
 Web AS Java  
 Standalone  
 Third-Party

Note: Systems of type Web AS ABAP and Web AS Java should

Select Web AS ABAP

Click Next

1 2 3  
System Type **General** Central Servers

**Technical System Wizard - System Details**

Web AS ABAP Name (SID): \*   
 Installation Number: \*   
 Database Host Name: \*

Enter above details based on your R/3 or ECC system.

Click Next

**1** System Type    **2** General    **3** **Central Servers**    **4** Application Servers    **5** Clients    **6** Installed Pr

**Enter information about the message server and the central application server**

**Message Server**

Host Name: \*  ⓘ

Message Server Port (sapmsB04): \*  ⓘ

Add New Logon Group Remove

Logon Groups	
SPACE	
PUBLIC	

Row 1 of 2

**Central Application Server**

Host Name: \*  ⓘ

Instance Number: \*  ⓘ

◀ Back    Next ▶    Cancel

If you have additional application servers you can add them in step4 this is optional

**1** System Type    **2** General    **3** Central Servers    **4** Application Servers    **5** **Clients**

**Enter at least one client**

**Client List**

Add New Client Remove

Client Number	Logical Client Name
001	Client 001
500	Client 500

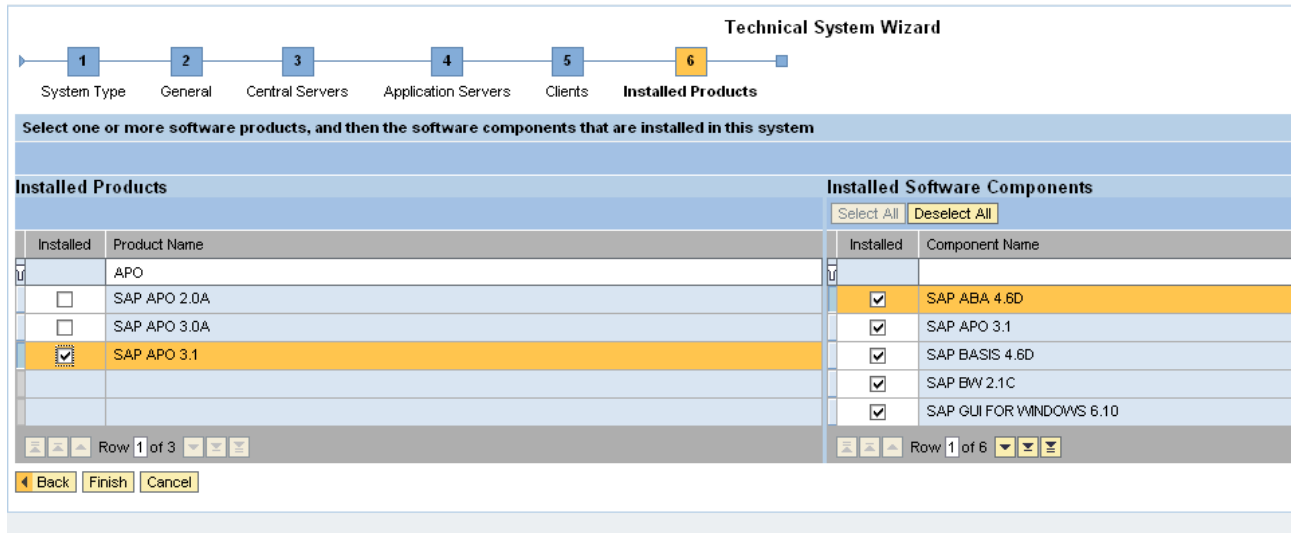
Row 1 of 2

◀ Back    Next ▶    Cancel

Enter client details

Click Next





Select the Products and Software Components

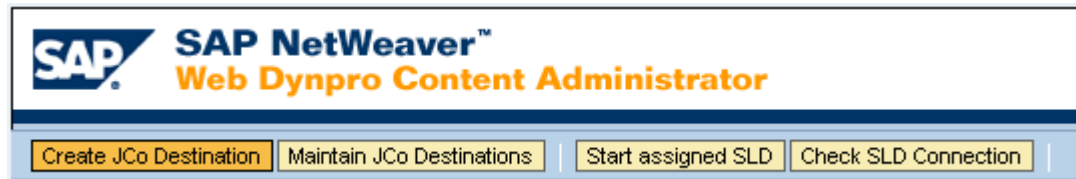
Click Finish

### Creating JCo Destination using Web Dynpro Content Administrator

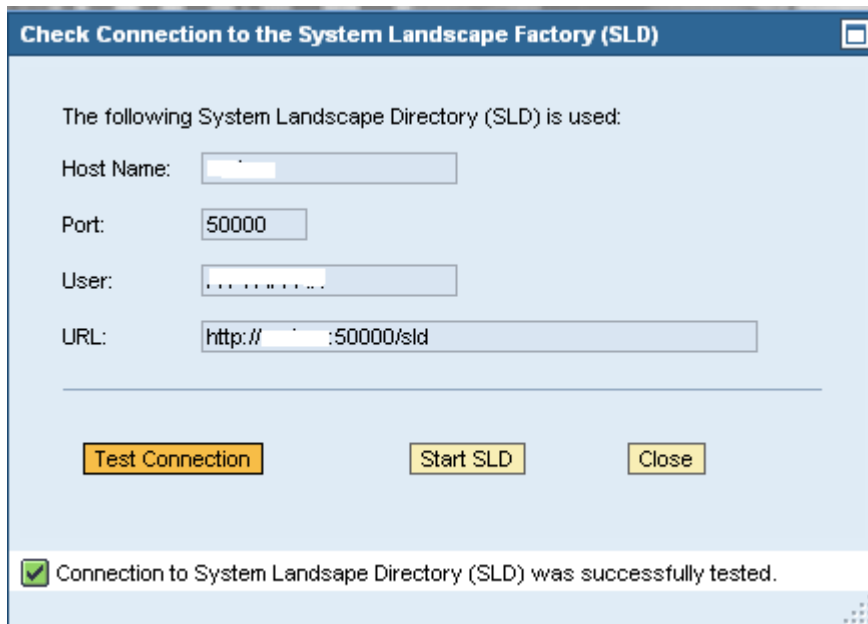
Use the following URL to access content administrator `http://<host>:<port>/Web Dynpro/welcome/Welcome.jsp`

[http://localhost:50000/Web\\_Dynpro/welcome/Welcome.jsp](http://localhost:50000/Web_Dynpro/welcome/Welcome.jsp)

### Testing the SLD



Click on Check SLD Connection to check your SLD



## Creating new JCo Destination

Ideally when we create Adaptive RFC models following names will be available by default for data and metadata.

Default logical system name for model instances

Default logical system name for RFC metadata

**Create new JCo Destination**

1 General Data 2 J2EE Cluster 2 Connection Type 3.1 Appl. Server Connection 3.2 Msg. Server Connection 4 Security 5 Summary

Define the name and the maximal pool size of the JCo connection.  
Optionally you can create the new JCo destination as a copy of an existing one.

Destination Name	JCo Pool Configuration
Name: <input type="text" value="WD_MODELDATA_DEST"/>	Maximal Pool Size: <input type="text" value="5"/>
Client: <input type="text" value="500"/>	Maximum Connections: <input type="text" value="10"/>
<input type="checkbox"/> Copy it from an existing JCo destination	Connection Timeout (msec.): <input type="text" value="10,000"/>
<input type="text" value="ECCBAN"/>	Maximum Waiting Time (msec.): <input type="text" value="30,000"/>

Previous Next Finish Cancel

Click Next

**Create new JCo Destination**

1 General Data 2 J2EE Cluster 2 Connection Type 3.1 Appl. Server Connection 3.2 Msg. Server Connection 4 Security 5 Summary

Define the J2EE cluster, to which the JCo destination should be assigned.  
You should use your local J2EE cluster as default. In some cases it might be useful to define the JCo destination for another J2EE cluster.

Use local J2EE engine "CE1 on blr-jh1br1s"

Previous Next Finish Cancel

Click Next

**Create new JCo Destination**

1 General Data 2 J2EE Cluster 2 Connection Type 3.1 Appl. Server Connection 3.2 Msg. Server Connection 4 Security 5 Summary

Data Type	Destination Type
Define the type of data you want to read using the JCo destination.	Define whether or not you want a load-balanced access.
<input type="radio"/> Dictionary Meta Data	<b>Note: This is only possible for destinations used to read application data.</b>
<input checked="" type="radio"/> Application Data	<input checked="" type="radio"/> Load-balanced Connection (recommended)
	<input type="radio"/> Single Server Connection (should be used only for debugging)

Previous Next Finish Cancel

Select Application Data

**Create new JCo Destination**

1 General Data   2 J2EE Cluster   2 Connection Type   3.1 Appl. Server Connection   **3.2 Msg. Server Connection**   4 Security   5 Summary

Define the message server, system name and the logon group used by the JCO connection.

Message Server:

System Name:

Logon Group:

Use SAP Router

SAP Router String:

Select the Server which you want to connect. These details are coming from the SLD.

**Create new JCo Destination**

1 General Data   2 J2EE Cluster   2 Connection Type   3.1 Appl. Server Connection   3.2 Msg. Server Connection   **4 Security**   5 Summary

Define the required authentication method and (optionally) the parameters needed for a secure network communication (SNC).

**Define the used authentication method and (optionally) the parameters needed for a secure network connection (SNC).**

User Authentication	Secure Network Connection (SNC)
Used Method: <input type="text" value="User / Password"/>	SNC Mode: <input type="text" value="Off"/>
Name: <input type="text" value="User"/>	SNC Partner Name: <input type="text"/>
Password: <input type="password" value="..."/>	SNC Security Level: <input type="text"/>
Confirm Password: <input type="password" value="..."/>	SNC Name: <input type="text"/>
Language: <input type="text" value="English"/>	SNC Library Path: <input type="text"/>

Provide the required Credentials.

Click Next

You defined the following JCO connection:

General   Security   Connection

General Data	JCo Pool Configuration
Name: <input type="text" value="WVD_MODELDATA_DEST"/>	Maximum Pool Size: <input type="text" value="5"/>
Client: <input type="text" value="500"/>	Maximum Connections: <input type="text" value="10"/>
J2EE Cluster Name: <input type="text" value="CE1 on blr-jh1br1s"/>	Connection Timeout (sec.): <input type="text" value="10,000"/>
	Maximum Waiting Time (sec.): <input type="text" value="30,000"/>

Above is the summary of the configuration

Click Finish

## Creating Meta Data Destination

Similar to the steps what we have followed above we need to create another Destination for the metadata.

While creating metadata destination at the connection type selection phase make sure that **Dictionary Meta Data** is selected.

**Create new JCo Destination**

1 General Data   2 J2EE Cluster   **2 Connection Type**   3.1 Appl. Server Connection   3.2 Msg. Server Connection   4 Security   5 Summary

**Data Type**  
Define the type of data you want to read using the JCo destination.  
 Dictionary Meta Data  
 Application Data

**Destination Type**  
Define whether or not you want a load-balanced access.  
**Note: This is only possible for destinations used to read application data.**  
 Load-balanced Connection (recommended)  
 Single Server Connection (should be used only for debugging)

◀ Previous   Next ▶   Finish   Cancel

## Testing JCo Destination

Click on the ping to check that you are able to reach the system, if that is success click on the Test to check the connection to the configured SAP system.

**JCo Destination Details**

Define Source: demo.sap.com/test   Create

Name	Status	Create	Preview	Edit	Test	Ping	Remove
WD_MODELDATA_DEST	🟢	Create	Preview	Edit	Test	Ping	Remove
WD_RFC_METADATA_DEST	🟢	Create	Preview	Edit	Test	Ping	Remove

✅ JCo destination WD\_MODELDATA\_DEST was successfully tested with user AYYAPPAK

## Test JCo connection using Web Dynpro application

Test any application that uses the JCo Connections defined using the following screen

Click on Run to launch your application

**Search**

Object Type:

Object Name:

Browse Search

Deployed Content

- demo.sap.com
  - demo.sap.com/businessgraph
  - demo.sap.com/exportabledata
  - demo.sap.com/firstapp
  - demo.sap.com/hibernateclient
  - demo.sap.com/pos\_wdp
  - demo.sap.com/test
    - Applications
      - Test
      - Components
      - Models
        - SalesOrder
    - demo.sap.com/testproj
    - demo.sap.com/testtvs
- demo.sdn.com

General References JCO Connections Language Resources

Development Component		Object Info	
Name:	demo.sap.com/test	Name:	Test
Status:		Path:	com.sap.demo.test.test
Started:		Type:	Application

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