

Integration of Business Intelligence 7.0 with Enterprise Portal 7.0



Applies to:

SAP Netweaver Portal 7.0 and SAP Netweaver BI 7.0

Summary

This document shows you the overview of how to integrate a BI system with the Portal from the Netweaver Basis perspective. BI-EP Integration is essential for displaying the BI reports over the portal in more user-friendly way.

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Author Bio



Working as SAP Netweaver Administrator for the past 2 years. Have installed and configured Netweaver landscape for almost all Netweaver usage types. I have integrated BI-EP in various landscapes and this document provides a common scenario which is suitable for all scenarios.

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1. Introduction

This document states the procedure of integrating BI system with the EP. This document can be used for both the scenarios as mentioned below:

- ✚ BI and Portal lying in the same system
- ✚ BI and Portal in different system

2. Integration Steps

To complete the integration we need to perform the following steps:

- ✚ Execute the program RSPOR_SETUP in SE38 and make adjustments.
- ✚ Run the BI Template Installer from NWA
- ✚ Install and run with BI Diagnostic Tool
- ✚ Check using SPRO
- ✚ Other Manual Adjustments and Corrections

2.1 Executing RSPOR_SETUP

[Note 917950 - SAP NetWeaver 2004s: Setting Up BEx Web](#)

As per the note we need to run the program RSPOR_SETUP in SE38 before we run the template installer

Important:

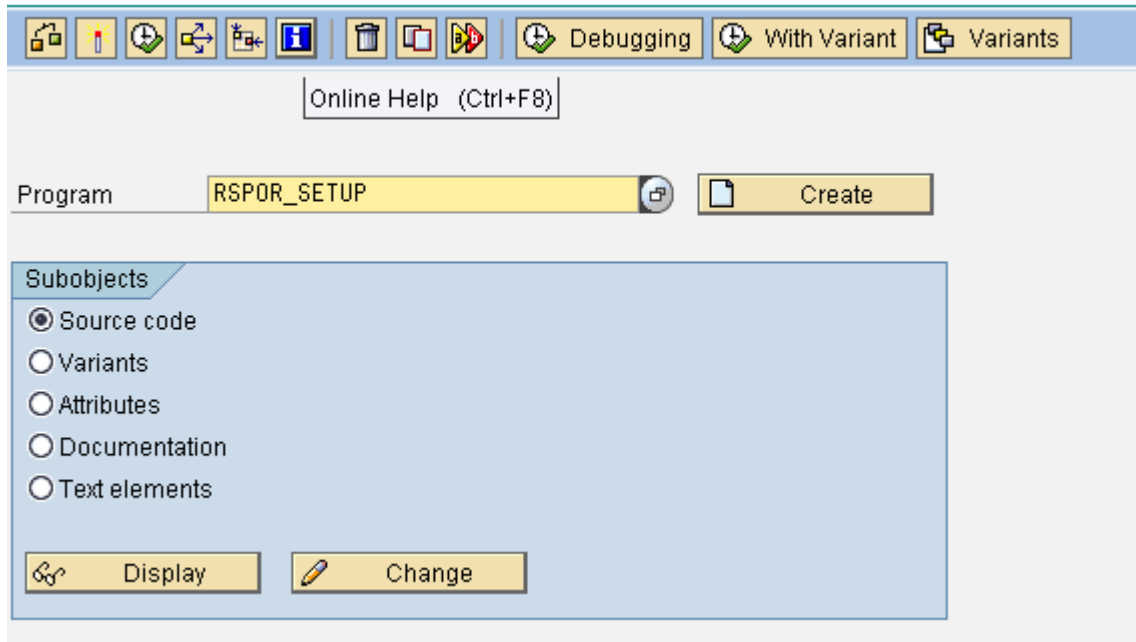
Before you use the report RSPOR_SETUP, you should apply the following notes:

916571 RSPOR_SETUP: Adjustments for Template Installer – Check if the system is updated with SAPKW70007

928332 RSPOR_SETUP: (Part 2) Adjustments for Template Installer - Check if the system is updated with SAPKW70008

1.) Run the program in SE38

ABAP Editor: Initial Screen



2.) Enter the details in the below screen

Maintain Settings for Integration into SAP Enterprise Portal



Completing a New Configuration

If you want to complete the configuration,
enter all the following parameters

[Documentation](#)

Step 1 - Create RFC Destination in J2EE Engine

Program ID	FRCES4141_PORTAL_NW4
Portal Directory (Optional)	/usr/sap/NW4/DVEBMGS00/j2ee
BI User	DDIC
BI Password (Optional)	*****

Step 2 - Create RFC Destination for Portal

<input checked="" type="radio"/> User-Defined RFC Destination	
RFC Destination	BI_FRCES4141_NW4
<input type="radio"/> Program ID as RFC Destination	
RFC Description	SAP NetWeaver Portal on FRCES4141

Step 3 - Maintain Portal Server Settings for Portal

<input checked="" type="checkbox"/> Default	
URL Prefix for Portal	http://frces4141:50000
Prefix of RM for BI Metadata	/bw_metadata

Step 5 - Export BI Certificate to BI

Export Path	C:\DOCUME~1\gbsadmin\FRCGBS\Local Settings\Temp\3
Export File Name	NW4_certificate.crt

Step 7 - Create BI System in Portal

Path in Portal Content: /portal_content/Systems
 Name in Portal Content: NW4CLNT001

Template for Defining the BI System in Portal

System with Load Balancing
 System with Application Serv

BI Properties

BI Directory Provider
 BI Documents for InfoProvid: /bi_documents
 BI Documents for Master Dat: /bi_documents
 BI Documents for Metadata: /bi_documents
 BI Master System

System Alias

System Alias: SAP_BW
 Create System Alias SAP_BW

Step 8 - Configure User Management in Portal

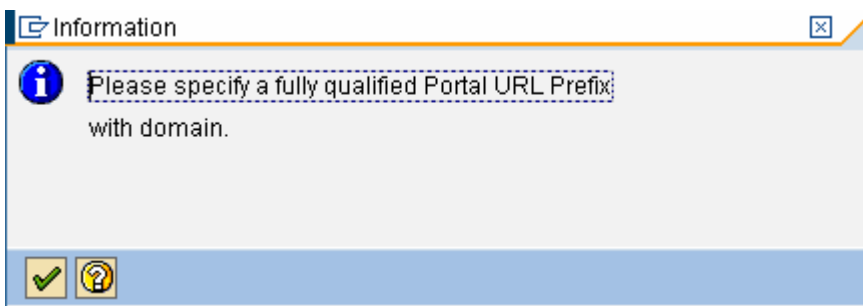
Logon Ticket Client (Optional): 001

Step 9 - Export Portal Certificate to Portal

Portal SID: NW4
 Import Path: C:\DOCUME~1\gbsadmin.FRCGBS\Local Settings\Temp\3
 Import File Name: NW4_portal_certificate.crt

Step 12 - Maintain User Assignment in Portal

BI User: DDIC
 BI Password (Optional): *****



Enter a FQDN in URL Prefix at Step 3 and execute

We have to remove all the error with Status red by reading the notes attached with these issues in each steps:

Click on each Step to get the information about the step. It will also mention how to solve the issue.

Maintain Settings for Integration into SAP Enterprise Portal

The screenshot displays the 'Maintain Settings for Integration into SAP Enterprise Portal' interface. It shows a list of 13 status items for Step 4: 'Maintain Single Sign-On in BI'. Status 4 is highlighted in blue. To the right, a list of error messages is shown in red text, including: 'Profil parameter login/create_sso2_ticket is not 2 (see step 4). This is required f', 'RFC destination does not exist', 'Domain of URL Prefix (ABAP) and URL Prefix (Portal) must be identical', 'Profil parameter login/create_sso2_ticket is not 2 (value 1 is not valid)', 'Profil parameter login/accept_sso2_ticket is not 1.', 'NW4_certificate.crt is not existing.', 'Existence of BI certificate in Portal cannot be checked automatically.', 'Existence of BI System in Portal cannot be checked automatically.', 'Add-In Installation: check logon.ticket_client (see note 994785)', 'Configuration of User Management in Portal cannot be checked automatically.', 'Okay', 'Okay', 'Setup of Repository Manager for BI in Portal cannot be checked automatically.', and 'RFC destination does not exist'. Below the status list, there are 'Entries for Step 4' showing profile parameters for 'Maintain BI Transaction Profile (RZ10)' and 'Checks for Step 4' indicating that profile parameters are checked automatically.

Few of the steps are given below.

Note: These steps are

Step 1: Create RFC Destination in J2EE Engine

Use:

In this activity you create an RFC destination in the J2EE Engine.

The RFC destination in the J2EE Engine is an RFC server that is called by the BI system as the RFC client. The connection is required in order to display content from the portal in the BI system. The RFC destination is used for the portal in RFC destinations.

You need this setting for all integration scenarios.

Activities

Execute the following steps to create an RFC destination in the J2EE Engine:

- 1.) Start the Visual Administrator with <PORTAL_DIRECTORY>admin/go.bat.
- 2.) Connect to the portal server.
- 3.) Select <SID>/Server<#>/Services/Jco RFC Provider from the hierarchy.

- 4.) Maintain an RFC destination:
Program ID: <PORTAL_HOSTNAME>_PORTAL_<SID>
Gateway host: <GATEWAY_HOST>
Gateway service: sapgw<SYSTEM_NUMBER>
Number of processes (1..20): 20
Application server host: see gateway host
System number: <SYSTEM_NUMBER>
Client: <BW_MANDANT>
Language: EN
User: <USER> (user in the BW system)
Password: <PASSWORD>
- 5.) Copy the RFC destination to the available RFC destinations by choosing Set.
- 6.) Start the RFC server by choosing Start.

Overview

This activity is a step in report Maintain Settings for Integration into the Portal (RSPOR_SETUP). This report supports you step-by-step in maintaining the settings for integrating a BI system and a portal. The individual steps can be called directly with transaction codes RSPOR_CUST01 to RSPOR_CUST13.







Step 3: Maintain Portal Server Settings for Portal

Change the URL prefix

Activity:

1. Open TCode SM30
2. Switch to change mode by clicking in the pencil icon
3. Edit the URL Prefix
4. Save the entry

Change View "Connected Portals": Details

Destination

Connected Portals

Name of System

Standard Portal

URL Prefix

KM Metadata Repository Manager Prefix

BI CM Repository Prefix for Metadata

BI CM Repository Prefix for Master Data

BI CM Repos.Prefix for InfoProvider Data

Use SAP Export Library (PDF)

Directory for Fonts (PDF)

Use HTTPS for Adobe (PDF)

Step 4: Maintain Single Sign-On in BI

To activate SSO kindly enable the parameters

login/create_sso2_ticket = 2

login/accept_sso2_ticket = 1

Set the icm/host_name_full to FQDN ie. frces4141.frcgbs.local

Step 5 - Export BI Certificate to BI System

Use

In this activity you export the BI certificate from the BI system.

The BI certificate has to be generated in and exported from the BI system so that it can be imported into the portal. The BI certificate is required in the portal so that portal content can be displayed in the BI system.

Activities

Execute the following steps in order to export the BI certificate to the BI system:

Start transaction Trust Manager for Single Sign-On with Logon Ticket (transaction code STRUSTSSO2).

1. Select your own certificate. Your certificate is located in the system PSE area in the Your Certificate field. You display the certificate in the certificate area by double clicking on the field value.
2. If you have not already created your own certificate, create one by choosing Create from the the context menu in the system PSE and distribute it to all application servers for the BI system by choosing PSE -> Distribute. There may be a time delay when you distribute the certificate. If necessary, check more than once that the certificate has been distributed successfully.
3. Choose Certificate -> Export from the menu.
4. Enter file path <BW_SID>_certificate.crt ein (<BW_SID> is the system ID for the BI system).
5. Choose file format Binary.

The file <SID>_certificate.crt is used for step Importing BI Certificate with the settings in the portal.

Overview

This activity is a step in report Maintain Settings for Integration into the Portal (RSPOR_SETUP). This report supports you step-by-step in maintaining the settings for integrating a BI system and a portal. The individual steps can be called directly with transaction codes RSPOR_CUST01 to RSPOR_CUST13.

The necessary parameters are requested upon execution. The individual parameters are described in the documentation on [Integration into the Portal](#).

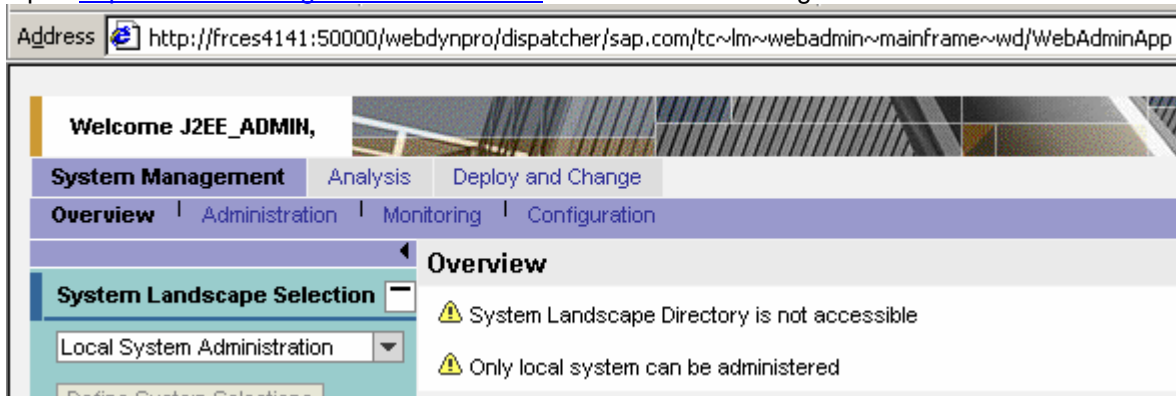
Step 5 and Step 6 – Certificate Issues

1. Open TCode - strustsso2
2. Click on owner certificate
3. Import the certificate to any location
4. Open Visual administrator
5. Upload the certificate (Cluster -> Services -> Security Provider)

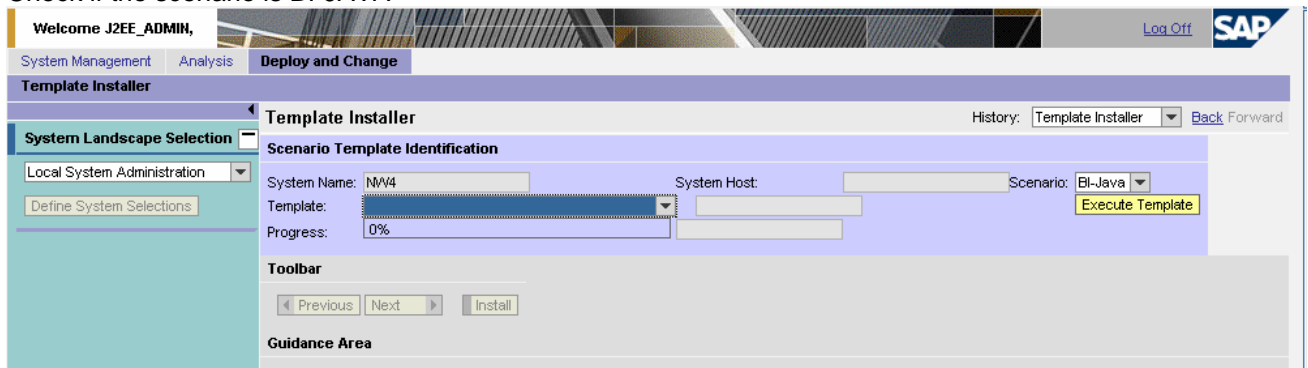
2.2 Running Template Installer

The template installer will create and configure the system for the usage types. Here we have to run the BI Template in order to complete the configuration. To do this we have to follow the below steps:

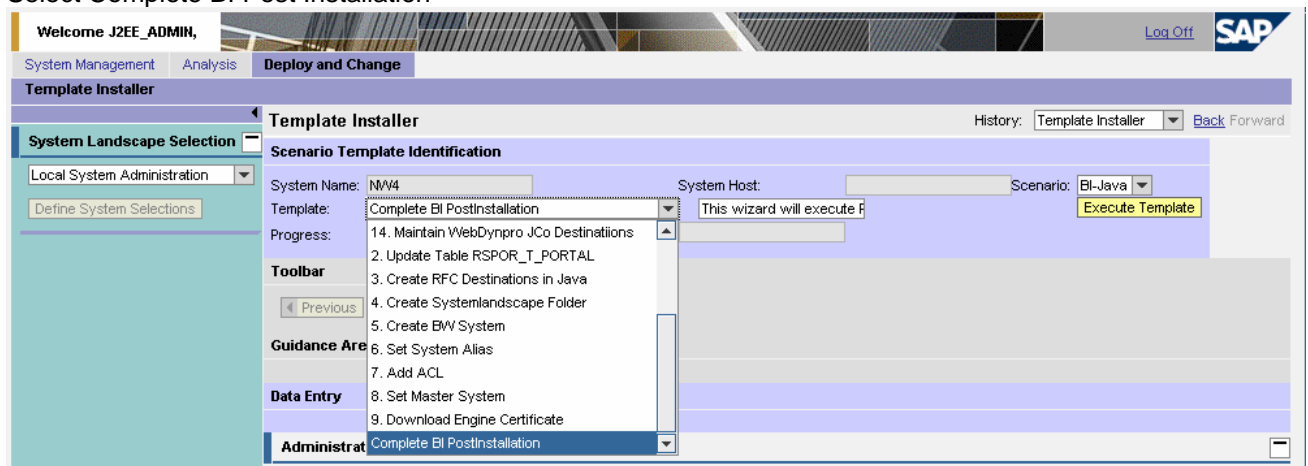
1. Open <http://frces4141.frcgbs.local:50000/nwa> to run the NWA configuration



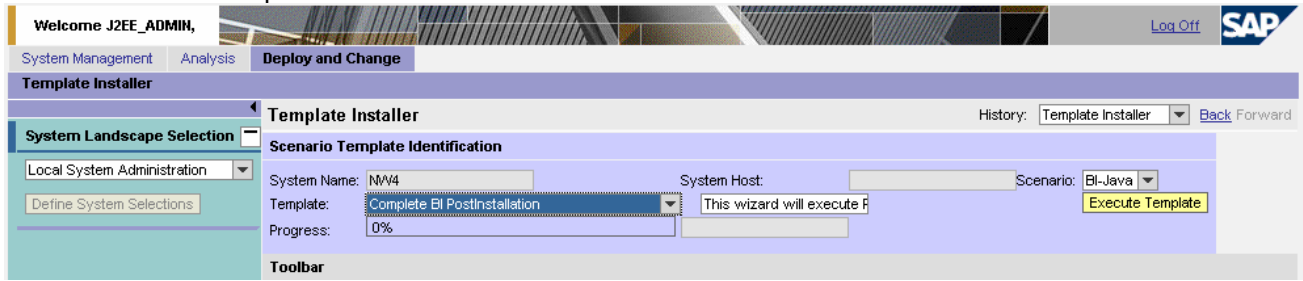
2. Switch to Deploy and Change
3. Check if the scenario is BI-JAVA



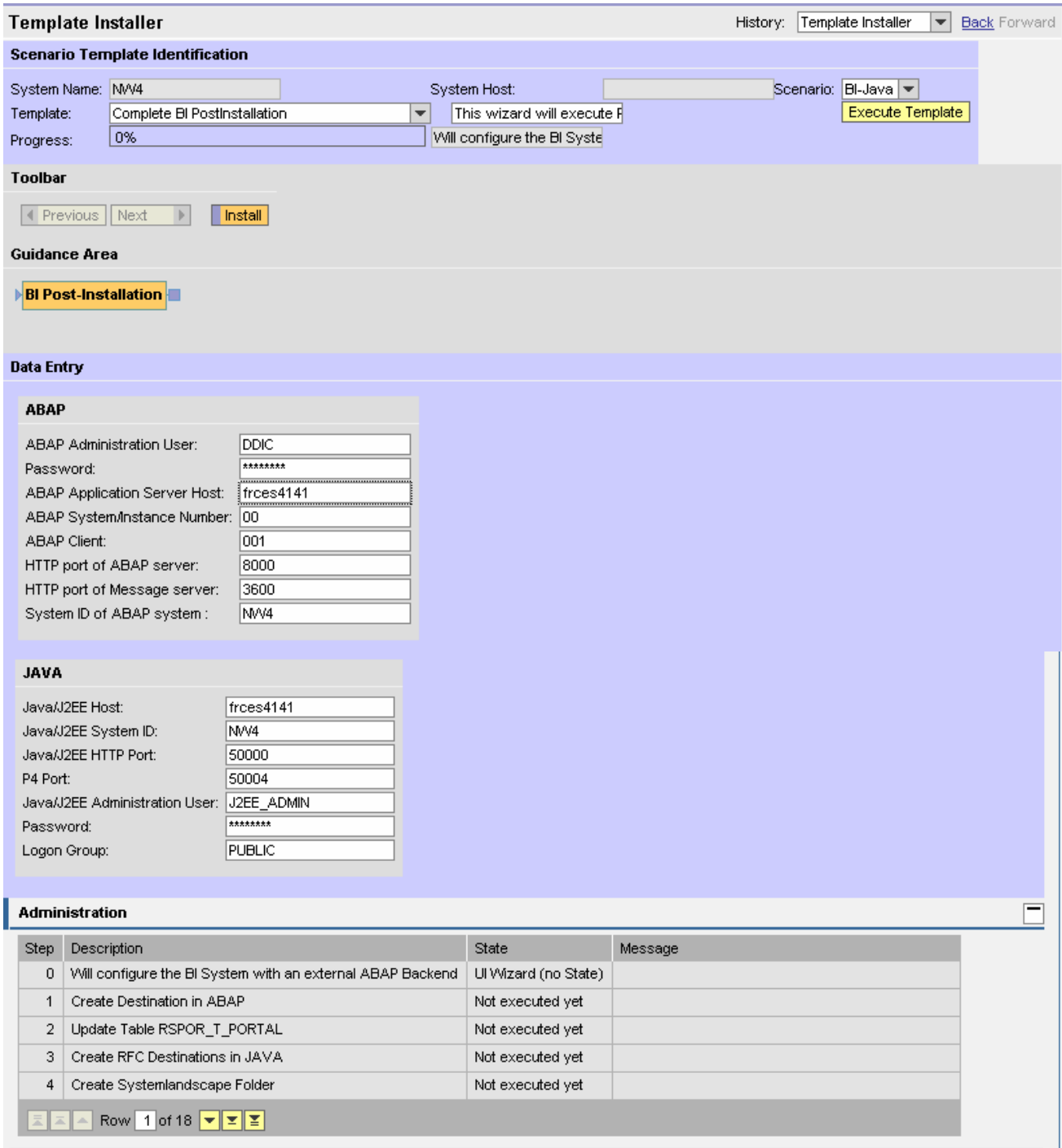
4. Select Complete BI Post Installation



5. Click on Execute Template



6. Enter the ABAP and Java Details



7. Click on Install to Start the Template installer

Note: Steps will fail if Chapter 2.1 is not executed.

Click on Install to continue with the rest of the steps (Do remember to execute the failed step again manually)

2.3 BI Diagnostics Tool

Apply the BI Test tool as per NOTE 937697 - Usage of SAP NetWeaver BI Diagnostics & Support Desk Tool

After applying the tool

Address <http://frces4141.frcgbs.local:50000/irj/servlet/prt/portal/prteventname/Ht>

Diagnostics & Support Desktop Tool

Please note: Your system is not configured correctly. BEx Web, BEx Web Appli

Current configuration status is: ■ RED

[Start reproducing error](#)
[Download support info](#)
[Reload configuration](#)
[Advanced m](#)

Configuration Checks

	Status	Check
<input type="radio"/>	■ RED	BI iView Permissions
<input type="radio"/>	■ RED	BI Mastersystem
<input checked="" type="radio"/>	■ RED	BI Portal System Permissions
<input type="radio"/>	■ RED	User Mapping of User DDIC
<input type="radio"/>	■ GREEN	Existence of a UME Mastersystem
<input type="radio"/>	■ GREEN	NetWeaver.BI Portal Security Zone Permissions
<input type="radio"/>	■ GREEN	Registered RFC listeners
<input type="radio"/>	■ GREEN	Required Values in BI Portal Systems
<input type="radio"/>	◆ UNDEFINED	Deployed Components
<input type="radio"/>	◆ UNDEFINED	Synchronized Clocks on WebAS Java and ABAP
<input type="radio"/>	◆ UNDEFINED	URLs Prefixes Customized on Both J2EE and ABAP Side
<input type="radio"/>	◆ UNDEFINED	WebAS ABAP Certificate and Login Modules Configuration
<input type="radio"/>	◆ UNDEFINED	WebAS ABAP Settings

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For Error 3 [Note 986641 - Access denied: Missing 'End User' permission for system](#)

Please note: Your system is not configured correctly. BEx Web, BEx Web Application Designer, BEx Report Designer and BEx Broadcaster will not work properly unless you a

Current configuration status is: ■ RED

[Start reproducing error](#) [Download support info](#) [Reload configuration](#) [Advanced mode](#)

Configuration Checks

Status	Check
■ RED	BI iView Permissions
■ RED	BI Mastersystem
■ RED	User Mapping of User DDIC
● GREEN	BI Portal System Permissions
● GREEN	Existence of a UME Mastersystem
● GREEN	NetWeaver.BI Portal Security Zone Permissions
● GREEN	Registered RFC listeners
● GREEN	Required Values in BI Portal Systems
◆ UNDEFINED	Deployed Components
◆ UNDEFINED	Synchronized Clocks on WebAS Java and ABAP
◆ UNDEFINED	URLs Prefixes Customized on Both J2EE and ABAP Side
◆ UNDEFINED	WebAS ABAP Certificate and Login Modules Configuration
◆ UNDEFINED	WebAS ABAP Settings

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Check Error	Solution	Action
The BI Report-Report Interface iView does not have the necessary permissions for being called directly.	See note 983683 for details	Display note 983683
The iView at 'com.sap.pct/platform_add_ons/com.sap.ip.bi/Views/com.sap.ip.bi.rri.transaction' does not have necessary permissions for being called directly	Add 'End User' permission for user group 'Everyone' to iView at 'com.sap.pct/platform_add_ons/com.sap.ip.bi/Views/com.sap.ip.bi.rri.transaction'	Fix permission

Error 1: Note 983683 - Report-report interface: Access denied

Configuration Checks

Status	Check
■ RED	BI Mastersystem
■ RED	User Mapping of User DDIC
● GREEN	BI iView Permissions
● GREEN	BI Portal System Permissions
● GREEN	Existence of a UME Mastersystem
● GREEN	NetWeaver.BI Portal Security Zone Permissions
● GREEN	Registered RFC listeners
● GREEN	Required Values in BI Portal Systems
◆ UNDEFINED	Deployed Components
◆ UNDEFINED	Synchronized Clocks on WebAS Java and ABAP
◆ UNDEFINED	URLs Prefixes Customized on Both J2EE and ABAP Side
◆ UNDEFINED	WebAS ABAP Certificate and Login Modules Configuration
◆ UNDEFINED	WebAS ABAP Settings

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Check Error	Solution	Action
Error while connecting to BI mastersystem via RFC. com.sap.mw.jco.JCO\$Exception:User J2EE_ADMIN has no RFC authorization for function group SYST.	Check connection properties in Portal Systemlandscape for the property category 'Connector' (Systemlandscape/SAP_BW)	-

Create a new role Z_BI_RFC_ALL and assigned it to J2EE_ADMIN to get perform the check.

Status	Check
<input checked="" type="radio"/> RED	BI Mastersystem
<input type="radio"/> RED	Deployed Components
<input type="radio"/> RED	URLs Prefixes Customized on Both J2EE and ABAP Side
<input type="radio"/> RED	User Mapping of User DDIC
<input type="radio"/> RED	WebAS ABAP Certificate and Login Modules Configuration
<input type="radio"/> RED	WebAS ABAP Settings
<input type="radio"/> GREEN	BI /View Permissions
<input type="radio"/> GREEN	BI Portal System Permissions
<input type="radio"/> GREEN	Existence of a UME Mastersystem
<input type="radio"/> GREEN	NetWeaver BI Portal Security Zone Permissions
<input type="radio"/> GREEN	Registered RFC listeners
<input type="radio"/> GREEN	Required Values in BI Portal Systems
<input type="radio"/> GREEN	Synchronized Clocks on WebAS Java and ABAP

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Check Error	Solution	Action
Path of ITS " does not equal '/sap/bc/gui/sap/its/webgui'	Check ITS Path of BI Mastersystem (Systemlandscape/SAP_BW). ITS is required for Report-Report Interface scenarios. SAP recommends to configure ITS even if Report-Report Interface is currently not used.	-
Port " of ITS Hostname () is not identical with HTTP Port '8100' of WebAS ABAP system. HTTP Port of Message Server (profile parameter ms/http_port) is retrieved from ABAP system. Port " is properly HTTP Port of Application Server.	It is recommended to use HTTP Port of Message Server. Check ITS Hostname of BI Mastersystem (Systemlandscape/SAP_BW)	-
Port '3600' of WAS Hostname (frces4141:3600) is not identical with HTTP Port '8100' of WebAS ABAP system. HTTP Port of Message Server (profile parameter ms/http_port) is retrieved from ABAP system. Port '3600' is properly HTTP Port of Application Server.	It is recommended to use HTTP Port of Message Server. Check WAS Hostname of BI Mastersystem (Systemlandscape/SAP_BW)	-
The system flagged as BI Mastersystem 'SAP_BW' does not have an alias named 'NW4CLNT001'	Add the alias 'NW4CLNT001' to your BI Mastersystem (Systemlandscape/SAP_BW)	-

Check the hostname and ports used in WAS and ITS --- Correcting this solved 3 issues

Configuration Checks

Status	Check
<input type="radio"/> RED	Deployed Components
<input type="radio"/> RED	User Mapping of User DDIC
<input checked="" type="radio"/> RED	WebAS ABAP Certificate and Login Modules Configuration
<input type="radio"/> RED	WebAS ABAP Settings
<input type="radio"/> GREEN	BI iView Permissions
<input type="radio"/> GREEN	BI Mastersystem
<input type="radio"/> GREEN	BI Portal System Permissions
<input type="radio"/> GREEN	Existence of a UME Mastersystem
<input type="radio"/> GREEN	NetWeaver BI Portal Security Zone Permissions
<input type="radio"/> GREEN	Registered RFC listeners
<input type="radio"/> GREEN	Required Values in BI Portal Systems
<input type="radio"/> GREEN	Synchronized Clocks on WebAS Java and ABAP
<input type="radio"/> GREEN	URLs Prefixes Customized on Both J2EE and ABAP Side

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Check Error	Solution	Action
Transport of Web Templates in active version will fail for system 'NW4'	Enter the correct settings for component 'evaluate_assertion_ticket' and login module 'com.sap.security.core.server.jaas.EvaluateAssertionTicketLoginModule'. Make sure you haven't made any typos or inserted blanks which are not contained in the proposal. Proposal: [trustedsys1=NW4, 000] [trusteddn1=CN=NW4] [trustediss1=CN=NW4] (don't include the '['s and ']'s; replace '1' with the next free number without leading '0's)	Display note 945055

Corrected as per note [Note 945055 - Transporting Web templates in SAP NetWeaver 2004s](#)

Configuration Checks

Status	Check
<input type="radio"/> RED	Deployed Components
<input checked="" type="radio"/> RED	User Mapping of User DDIC
<input type="radio"/> RED	WebAS ABAP Settings
<input type="radio"/> GREEN	BI iView Permissions
<input type="radio"/> GREEN	BI Mastersystem
<input type="radio"/> GREEN	BI Portal System Permissions
<input type="radio"/> GREEN	Existence of a UME Mastersystem
<input type="radio"/> GREEN	NetWeaver BI Portal Security Zone Permissions
<input type="radio"/> GREEN	Registered RFC listeners
<input type="radio"/> GREEN	Required Values in BI Portal Systems
<input type="radio"/> GREEN	Synchronized Clocks on WebAS Java and ABAP
<input type="radio"/> GREEN	URLs Prefixes Customized on Both J2EE and ABAP Side
<input type="radio"/> GREEN	WebAS ABAP Certificate and Login Modules Configuration

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Check Error	Solution	Action
Import of Web Templates in active version will fail because the J2EE user DDIC is not properly mapped to an ABAP user other than DDIC	Maintain a user mapping for J2EE user DDIC - see note 945055 for details	Display note 945055

Map the DDIC user to J2EE_ADMIN user

Configuration Checks

Status	Check
<input type="radio"/> RED	Deployed Components
<input type="radio"/> RED	User Mapping of User DDIC
<input checked="" type="radio"/> RED	WebAS ABAP Settings
<input type="radio"/> GREEN	BI iView Permissions
<input type="radio"/> GREEN	BI Mastersystem
<input type="radio"/> GREEN	BI Portal System Permissions
<input type="radio"/> GREEN	Existence of a UME Mastersystem
<input type="radio"/> GREEN	NetWeaver.BI Portal Security Zone Permissions
<input type="radio"/> GREEN	Registered RFC listeners
<input type="radio"/> GREEN	Required Values in BI Portal Systems
<input type="radio"/> GREEN	Synchronized Clocks on WebAS Java and ABAP
<input type="radio"/> GREEN	URLs Prefixes Customized on Both J2EE and ABAP Side
<input type="radio"/> GREEN	WebAS ABAP Certificate and Login Modules Configuration

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Check Error	Solution	Action
Retrieval of WebAS ABAP settings failed	Make sure the ABAP coding correction from note 937697 is applied in the latest version available. There's a more recent version attached to note 937697	Display note 937697

Apply the Notes 937697 correction via SNOTE

Configuration Checks

Status	Check
<input checked="" type="radio"/> RED	Deployed Components
<input type="radio"/> RED	WebAS ABAP Settings
<input type="radio"/> GREEN	BI iView Permissions
<input type="radio"/> GREEN	BI Mastersystem
<input type="radio"/> GREEN	BI Portal System Permissions
<input type="radio"/> GREEN	Existence of a UME Mastersystem
<input type="radio"/> GREEN	NetWeaver.BI Portal Security Zone Permissions
<input type="radio"/> GREEN	Registered RFC listeners
<input type="radio"/> GREEN	Required Values in BI Portal Systems
<input type="radio"/> GREEN	Synchronized Clocks on WebAS Java and ABAP
<input type="radio"/> GREEN	URLs Prefixes Customized on Both J2EE and ABAP Side
<input type="radio"/> GREEN	User Mapping of User DDIC
<input type="radio"/> GREEN	WebAS ABAP Certificate and Login Modules Configuration

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Check Error	Solution	Action
The SCA 'BI-BASE-S' (7.00 9) is a invalid combination of version/support package with your WebAS ABAP system (7.00 14)	Ensure that both your WebAS Java and your WebAS ABAP have a valid combination of version and support package stack level. Please note that beginning from BI SP 11, the versioning scheme of BI ABAP SPs has changed	Display note 1013369

Apply latest SPs to Java stack and ABAP stack to get rid of the error DEPLOYED COMPONENTS

The other WebAS ABAP Settings will be rectified after assigning proper authorization to the JAVA user to connect to the ABAP stack.

2.4 Check using SPRO

If we need more help to correct the error in the above test then we can use the TCODE SPRO to check for the adjustments needed. To do this we have to perform the steps as below

- 1.) Open TCODE SPRO

Customizing: Execute Project

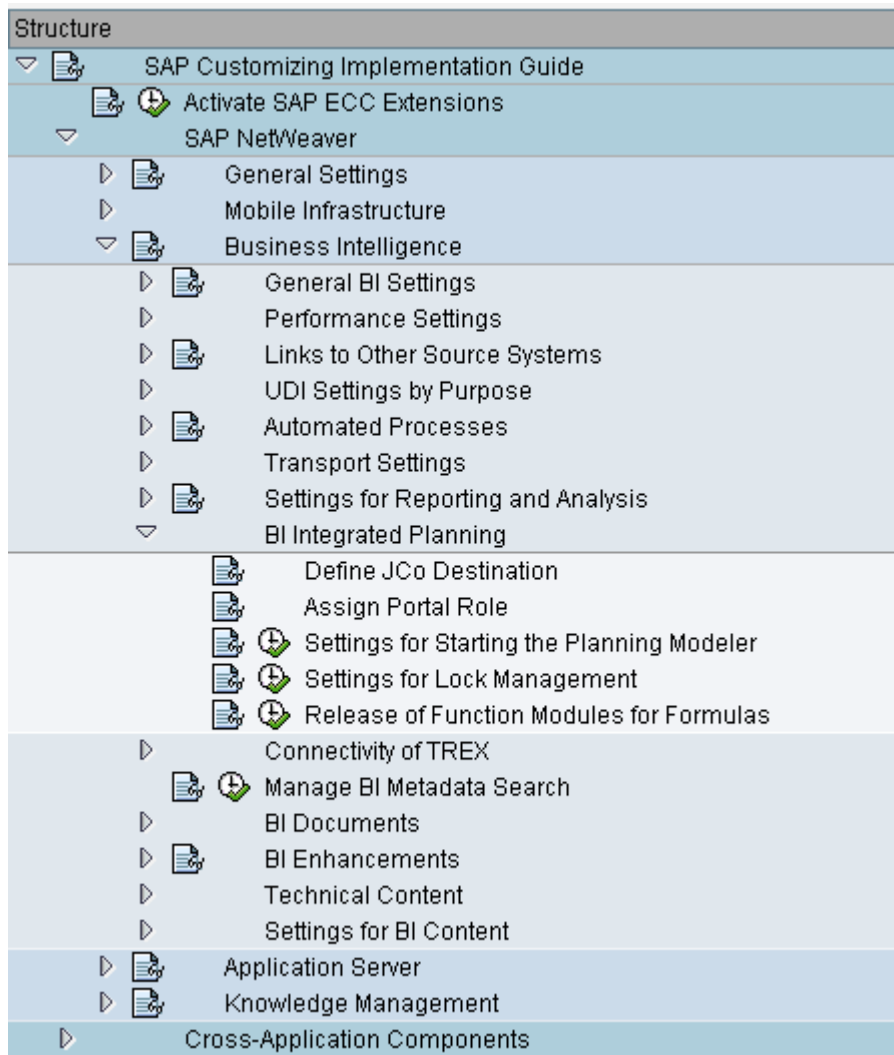
SAP Reference IMG | IMG Information | Project Analysis


My Customizing Worklist

Project	Name

Manage Worklist

2.) Click on SAP Reference IMG



Click on  which is before each Step to read more about the step. This will help to execute the steps manually if not properly done by template installer.

2.5 Other Manual Adjustments and Corrections

In the middle we may need to correct other issues by searching the notes or Market place.

For eg. For SSO setup we need to check the below note

Note **701205** - Single Sign-On using SAP Logon Tickets

General note for BEx setup

Note **917950** - SAP NetWeaver 2004s: Setting Up BEx Web

3. CONCLUSION

By performing the above steps the BI is integrated with the Portal.

The step below is to confirm whether the BI Integration is done properly

- 1.) Open TCODE RSPLAN in the integration server

BI Integrated Planning

Modeling Planning Scenarios

Start Modeler

Start Wizard

Applications are started in the browser

Administration and Development

Manage Lock Server

Maintain Function Types

Welcome to BI Integrated Planning

This interface serves as a point of access for the environment. The *Planning Modeler* is the center. You can use the Planning Modeler to model, manage and execute planning scenarios.

- A *wizard* is available that simplifies your work through a simple scenario based on a template.
- Both tools are Web Dynpro based applications running on the SAP NetWeaver Application Server. That means that you are able to access them from any browser. A local installation of SAP Frontend is not required.
- As additional applications, tools are available to create and maintain new planning function types.

- 2.) Click on Start Modeler – This will give a status message and opens a new IE link

- 3.) This new IE window which should be opened properly as in below screen

Modeler - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://frces4141.frcgbs.local:50000/webdynpro/dispatcher/sap.com/bi-plan-workbench1/Modeler?> Go Links

InfoProvider Aggregation Levels Filter Planning Functions Planning Sequences

InfoProvider Selection

Find: InfoProvider Start Help

Change Check Save Filter on Settings

InfoProvider description	InfoProvider type	Last changed by	Date	Time

Thus we can conclude that the Business Intelligence is successfully integrated with the Enterprise Portal

Related Content

For more information, visit the [Business Intelligence homepage](#).

For more information, visit the [Portal and Collaboration homepage](#).

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