

Step by Step Guide to Install, Configure, and Run SLM



Applies to:

SAP Consultants that would like a detailed step by step configuration as a complement of the SLM official guide. For more information, visit the [Application Management homepage](#)

Summary

This document describes all necessary steps to configure Maintenance Optimizer to use Software Lifecycle Manager to Automatically Download Support Packages and SAP Enhancement Packages. For details about configuration of **Single System Update** check the official documentation at <http://service.sap.com/mopz> => [How-to guide: How to configure Software Lifecycle Management \(SLM\) Service \(SPS22\)](#)

Author: Mateus de Freitas Pedroso

Company: SAP LABS America Latina

Created on: 25 October 2010

Author Bio



Mateus Pedroso is working for SAP LABS Latin America as a member of Netweaver ABAP/Solution Manager Team located in São Leopoldo, Brazil. He joined SAP in 2008 as Support Consultant working with Upgrade/Installation, Client-Server Technology and Software Logistics. In 2009 he joined Sap Solution Manager team focusing on Maintenance Optimizer and SLM. He can be reached at mateus.pedroso@sap.com.

Document version 1.1 (01/12/2010)

Added a chapter to credits

Updated chapter 13. Relevant SAP Notes

Document version 1.2 (20/01/2011)

Added reference to Single System Update

Table of Contents

Introduction - Scenario.....	3
1. Scenario.....	3
2. Background Information.....	4
2.1 The managing and managed system landscapes	4
2.2 Configuration Sections	5
2.3 Update from SAP Solution Manager SPS 15-21 to SPS 22.....	5
3. Prerequisites.....	6
4. Registration of systems in SLD and SMSY	6
5. Updating SLD	12
6. Installing the license keys.....	13
7. Configuration for Secure Connection to SLM.....	17
7.1 Setting up SAP Cryptographic Library for SLM Secure Connection.....	17
7.2 Generation and Import of SSL Certificate for SLM Secure Connection	23
7.3 Using the maintenance transaction for RFC destinations (SM59).....	30
8. Software Logistics Controller – SLC.....	32
9. Installation and Configuration of Software Lifecycle Manager – SLM.....	33
9.1 Activate the BC-SETS for Maintenance Optimizer and SLM.....	44
9.2 Authorization Configuration for Maintenance Optimizer	45
9.3 S-User Assignment for Maintenance Optimizer.....	45
9.4 Common Settings for Managing and Managed Systems	46
10. Configuration for Transport Directory	46
11. Creating the MOPZ transaction	48
12. Relevant Components for issues.....	52
13. Relevant SAP Notes	53
14. Credits.....	53
Copyright.....	54

Introduction - Scenario

1. Scenario

The maintenance optimizer helps you to manage and implement maintenance activities in your system landscape.

The system and solution information in SAP Solution Manager, accessible via the *Solution Manager System Landscape* transaction (SMSY), is the basis and reference for maintenance transactions. You can assign one or more systems to your maintenance transaction, for the greatest possible flexibility. The maintenance optimizer interacts with the SAP Global Support Backbone to download the support package you have selected there. To make this possible, you have to create S-users for SAP Service Marketplace and assign them to the SAP Solution Manager end users.

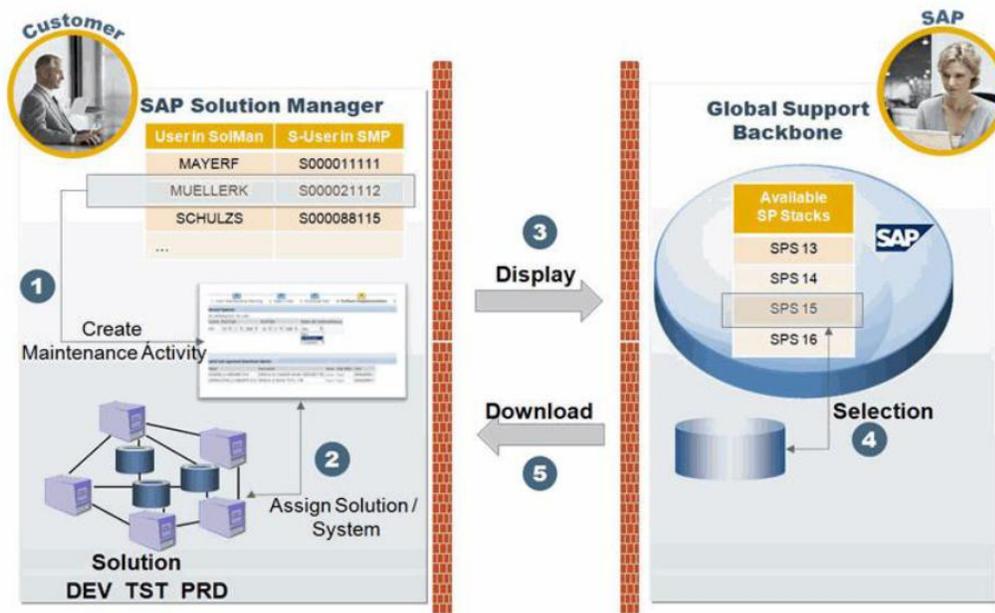


Figure 1: Interaction between the Maintenance Optimizer and SAP Global Support Backbone Example

The end user MUELLERK creates a maintenance transaction (1) and assigns a solution/system to it (2). SAP Solution Manager establishes a connection to SAP Global Support Backbone and displays all currently available support packages (3). The support packages selected by the user are stored in the download basket of end user S000021112 (4) and downloaded from there (5).

The maintenance optimizer leads you through the following steps for the maintenance transaction:

You can download support packages automatically, and deploy them (single system update) to the managed system, using the Software Lifecycle Manager (SLM), with the Maintenance Optimizer. This use case is described in this guide.

In this guide a complete configuration will be performed, check the servers that were used to execute this configuration.

Managing System => Solution manager with SP24 (Running SLD, MOPZ and SLM)

SLM => pordosol.sle.sap.corp

Managed system => Solution Manager with SP18

XTP => slmtest.sle.sap.corp

2. Background Information

With SAP Solution Manager (component ST 400) SPS 22, the Maintenance Optimizer supports the automatic download of support packages and enhancement packages. At the same time, the Maintenance Optimizer supports **single system update**, with the Software Lifecycle Manager (SLM, component SOFTWARE LIFECYCLE MANAGEMENT), for the scenarios below:

Update Type	SLM Release	Managed System NetWeaver Release	Comment
Maintenance	7.0x	7.00	Kernel and IGS components auto-update not supported.
		7.01	Kernel and IGS components auto-update not supported.
		7.02	Kernel and IGS components auto-update supported.

Note: SLM release 7.0x does not include 7.00. In maintenance optimizer use scenarios, only SLM release 7.0x is now supported. For SLM 7.01, the minimum required release is 7.01 SP05 patch 2.

Note: Maintenance/Installation/Upgrade of add-on product versions in the above maintenance and installation scenarios, is supported.

Note: If kernel auto-update is not supported by SLM, you need to update kernels before deploying other packages via SLM.

Before a single system update, you need to configure the managing and managed systems.

2.1 The managing and managed system landscapes

The Maintenance Optimizer can connect to multiple SLMs of different releases. The systems involved in the maintenance optimizer single system update can be as follows:

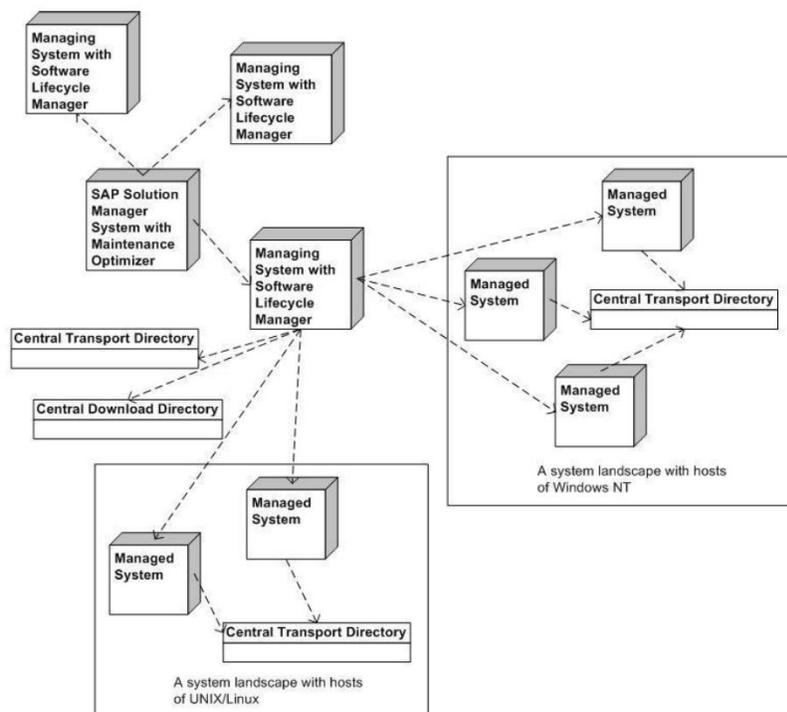


Figure 2: Deployment of Maintenance Optimizer with Software Lifecycle Manager (SLM)

Various tools and applications work together to support auto-download and single system update. Suppose you have two managing systems (see Figure 3): the SAP Solution Manager system with the Maintenance Optimizer, and a system in which you install the SLM, the SLD content, and the Software Logistics Controller (SLC). In this case, the Maintenance Optimizer is in the managing SAP Solution Manager system, and connects to the SLM in the other managing system. You need to set up and configure the software logistics tools for the automatic download, in addition to the maintenance optimizer and the SLM. You need to set up and configure the tools for the single system update, in both your SLM managing system and managed systems: the SLC, the Support Package Manager and SAP Add-On Installation Tool (SPAM/SAINT), and the Java Support Package Manager (JSPM). You also need to activate the Web service *sapcontrol*.

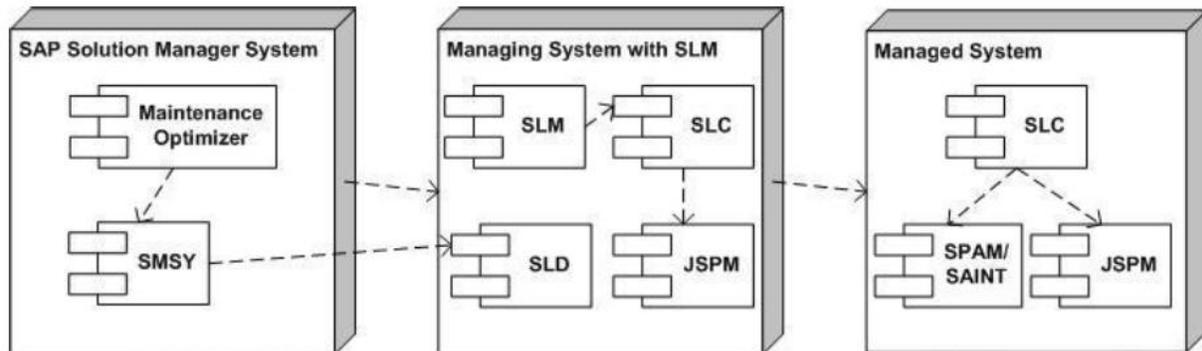


Figure 3: Two separate managing systems with Maintenance Optimizer, SLM, and other tools supporting auto-download; one managed system with tools supporting single system update
Frequently, one of the managing systems with SLM is the same as the system with SAP Solution Manager.
Note

An SAP Solution Manager system can connect to more than one SLM component.
Note

The managed systems need to be maintained via the Maintenance Optimizer. The managing SAP Solution Manager system and the managing system with the SLM can also be managed systems, when their own components are being updated.

2.2 Configuration Sections

Before using the auto-download and single system update functions, you need to perform the configuration steps below:

Register the system landscape: section 4.1.

Configure SLM: section 4.2-4.4.

Customize the Maintenance Optimizer and configure authorization: section 4.5-4.7.

Configure logistic tools: section 4.8-5.4.

2.3 Update from SAP Solution Manager SPS 15-21 to SPS 22

If your SAP Solution Manager system is currently at support package stack level 15-21, see the following notes before you update to SPS 22 or higher.

1. Before applying SPS 22 on the SAP Solution Manager system, finish or withdraw the Maintenance Optimizer transactions which are using SLM; import the latest SPAM/SAINT.
2. If you have made the secure connection settings in previous packages, you can skip section 4.3 *Configuration for Secure Connection to SLM* [page 8].
3. Check section 4.4 *SLM Configuration* [page 11] and configure the missing items, even if you already configured SLM in previous SAP Solution Manager SPS levels. There are enhanced fields to be configured.
4. After applying SPS 22, for the first time, you need to update SLM, SLC, SPAM/SAINT and JSPM to the newest version, manually, on other managing and managed systems.

3. Prerequisites

You have installed SAP Solution Manager SPS 22.

You have installed the SLM, SLC and SLD in the managing systems.

You have installed the SLC and the installation tool for ABAP-based systems (SPAM/SAINT) and for Java-based systems (JSPM), in each managed system.

There are some notes to be installed, please pay attention to maintain these notes always in the latest version.

Mandatory notes to be installed to Solution Manager SP22/23/24

1405878 - SAP Solution Manager - Basic functions SP22 and higher

Mandatory notes to be installed to Solution Manager SP22

1415315 - Maintenance Optimizer: Collective corrections for SP22

1452118 - MOpz: Collective Corrections 23

1461849 - MOpz: Collective corrections 24

1485385 - MOpz: Collective corrections 25

Mandatory notes to be installed to Solution Manager SP23

1452118 - MOpz: Collective Corrections 23

1461849 - MOpz: Collective corrections 24

1485385 - MOpz: Collective corrections 25

Mandatory notes to be installed to Solution Manager SP24

1461849 - MOpz: Collective corrections 24

1485385 - MOpz: Collective corrections 25

4. Registration of systems in SLD and SMSY

You need to register both the ABAP stack and the Java stack for managing and managed systems.

1. Configure the SLD data supplier for the ABAP stack. More information: SAP Help Portal at <http://help.sap.com> *SAP NetWeaver SAP NetWeaver 7.0 including Enhancement Package 1 <language> SAP NetWeaver Library SAP NetWeaver by Key Capability Solution Life Cycle Management by Key Capability Software Life-Cycle Management System Landscape Directory Configuring Systems to Connect to SLD Connecting AS ABAP Systems to the SLD Setting Up the SLD Data Supplier for Java-Based Systems Global Settings default settings*

2. Configure the SLD data supplier for the Java stack. More information: SAP Help Portal at <http://help.sap.com> *SAP NetWeaver SAP NetWeaver 7.0 including Enhancement Package 1 <language> SAP NetWeaver Library SAP NetWeaver by Key Capability Solution Life Cycle Management by Key Capability Software Life-Cycle Management System Landscape Directory Configuring Systems to Connect to SLD Connecting AS ABAP Systems to the SLD Setting Up the SLD Data Supplier for Java-Based Systems*

3. Configure the SLD data supplier for systems which are neither ABAP nor Java-based. More information: SAP Help Portal at <http://help.sap.com> *SAP NetWeaver SAP NetWeaver 7.0 including Enhancement Package 1 <language> SAP NetWeaver Library SAP NetWeaver by Key Capability Solution Life Cycle Management by Key Capability Software Life-Cycle Management System Landscape Directory Configuring Systems to Connect to SLD Connecting Other SAP Systems to the SLD*

Note

Check the system numbers of systems in the SLD. More information: SAP Note 1281541 (Wrong SLD system number causes error in SLM plan execution).

4. After registering systems in SLD, you need to import the system data into SMSY. More information: SAP Help Portal at <http://help.sap.com> *SAP Solution Manager SAP Enhancement Package 1 for SAP Solution Manager 7.0 <language> Basic Settings Solution Manager System Landscape*.

Note

Follow the check list to check system data in SMSY: SAP Note 1344564 (Maintenance Optimizer: Check system landscape).

Note

Check whether components SLC and JSPM are maintained in the Java system component in SMSY. If SLC and JSPM were not auto-maintained via SLD, while you installed them, you need to maintain them in Java system components of both managing and managed systems.

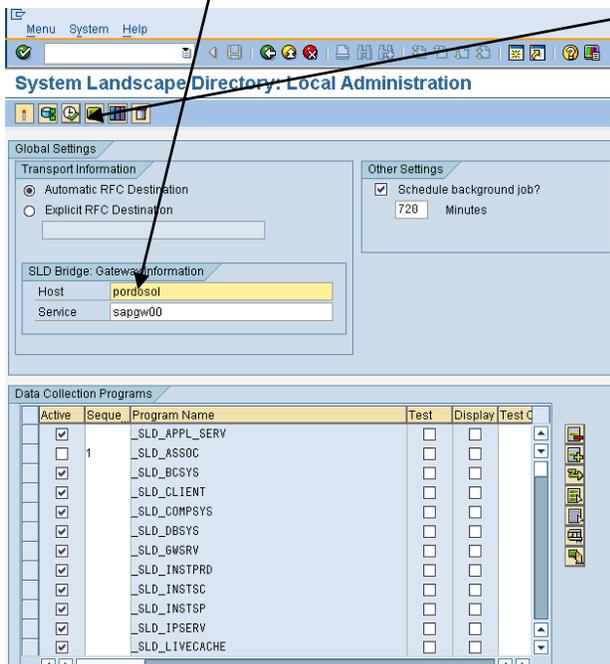
Example for ABAP and JAVA Stack.

You need to register both the ABAP stack and the Java stack for managing and managed systems.

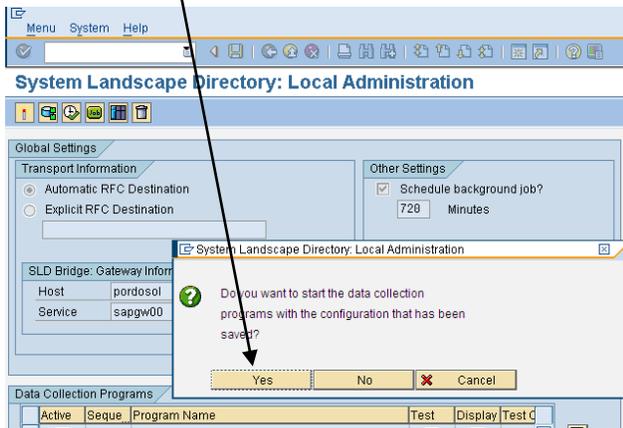
Go to the managed system XTP

ABAP => RZ70

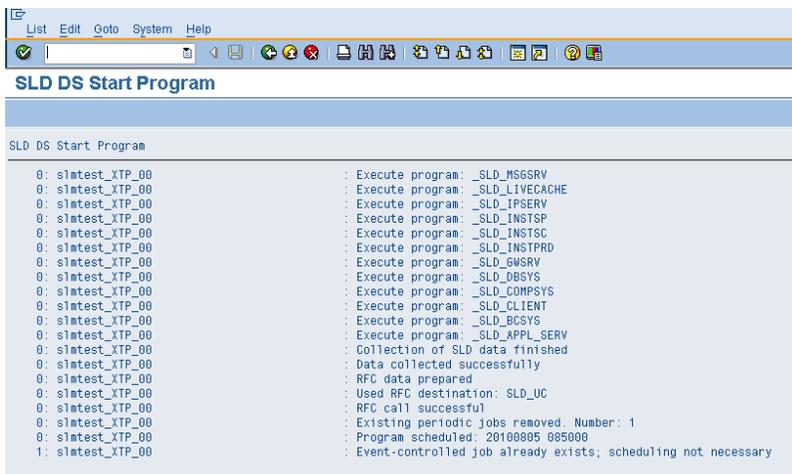
Changed to the SLD of Managing system => pordosol and click here



Confirm with yes



Result



XTP ABAP Stack registered with success



The screenshot shows the SAP NetWeaver System Landscape Directory interface. The 'Technical Systems' section is active, displaying a table of systems. The system 'XTP on slmtest' is selected and highlighted in yellow.

Name	Host	Version	Last Update
PI1 on alabama	alabama	710	07/30/2010 05:19
POA on texasdb-int	texasdb-int	700	06/14/2010 15:06
SLM on pordosol	pordosol	701	08/04/2010 14:41
XTP on slmtest	slmtest	701	08/04/2010 20:44
XXX on alabama	alabama	700	07/28/2010 02:54

Below the table, the 'ABAP Technical System Details for: XTP on slmtest' are shown. The 'General' tab is active, displaying the following information:

- System Name: XTP
- System Home: slmtest
- Installation Number: 0020190117
- Release: 701
- Description: (empty field)
- Administration Contact: (empty field)
- TMS Domain: DOMAIN_XTP
- TMS Transport Group Name: GROUP_XTP
- Web AS Java: XTP on slmtest

Registering Java Stack

Go to Visual Administrator of XTP => SLD Data Supplier. Fulfill the informations of SLD.

Click here

The screenshot shows the Visual Administrator interface for the XTP system. The 'SLD Data Supplier' service is selected in the left-hand tree view. The main window displays the 'Runtime' tab for the 'System Landscape Directory: HTTP Parameter' configuration.

The configuration page includes the following fields and options:

- Host:** pordosol
- Port:** 50000
- User:** SLDDSUSER
- Password:** (masked with asterisks)
- Use HTTPS?:**
- Trust Store:** (empty field)

Buttons for 'Save', 'Reset', 'Refresh', and 'Delete' are located at the bottom of the configuration area.

Select yes

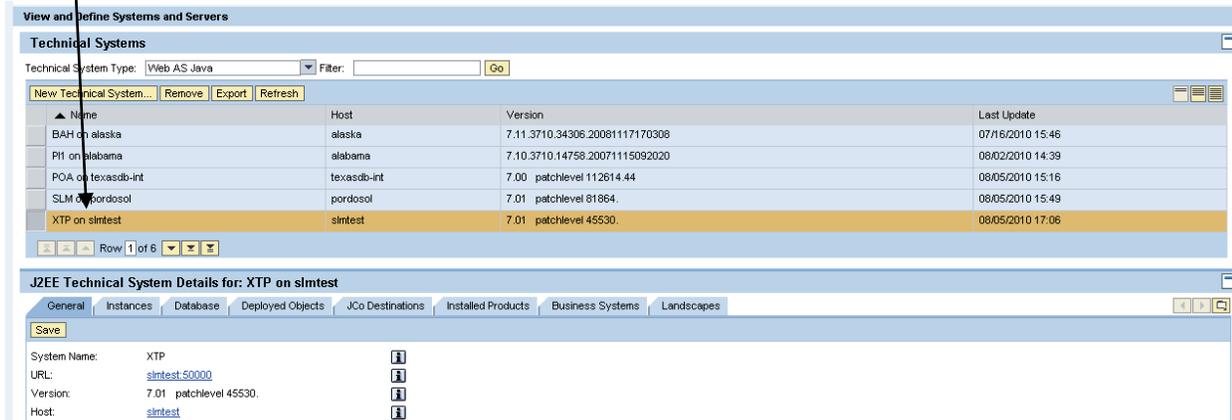


And confirm



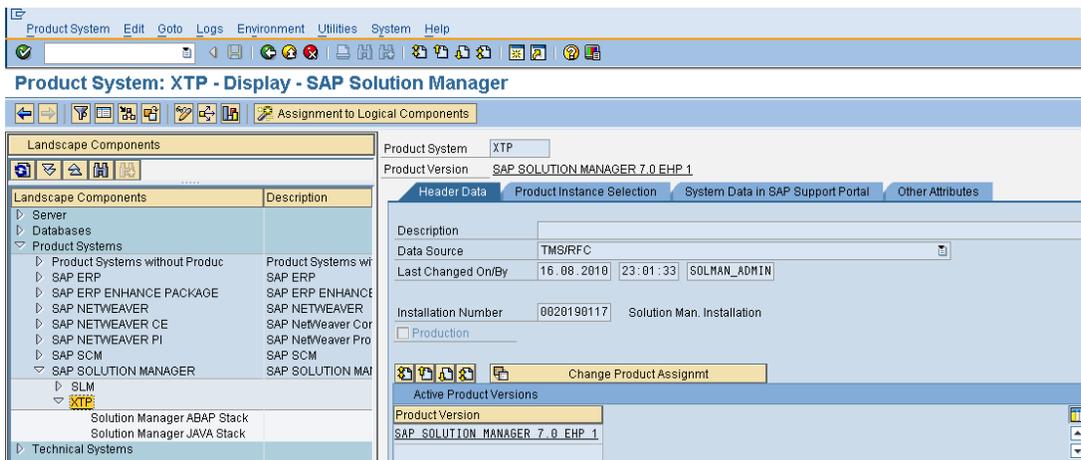
Check the results in the SLD.

XTP JAVA Stack registered with success



Registering the system in SMSY of SLM (Managing system)

Just run LANDSCAPE_FETCH job in SM37. For more informations check note [1148028 - Setup SLD in the scope of Solution Manager 7.0](#)



You must assign this system to a logical component and the logical component to a solution.

Landscape Components Edit Goto Logs Environment Utilities System Help

Logical Component: Z_SOLMAN_COMP - Display - SAP Solution Manager

System Groups and Logical Components

System Groups and Logi... Description

- ▷ SAP NETWEAVER F SAP NetWeaver Applicati...
- ▷ SAP NETWEAVER E SAP NetWeaver BW
- ▷ SAP NETWEAVER C SAP NetWeaver Compos...
- ▷ SAP NETWEAVER I SAP NetWeaver Mobile
- ▷ SAP NETWEAVER F SAP NetWeaver Process...
- ▷ SAP NW ENTERPR SAP NETWEAVER ENTE...
- ▷ SAP NW IDENTITY I SAP NetWeaver Identity ...
- ▷ SAP OOSD SAP OOSD (Oil & Gas S...
- ▷ SAP PAYMENT ENG SAP Payment Engine
- ▷ SAP PORTF AND PI SAP PPIM
- ▷ SAP POS SAP POS
- ▷ SAP POS SERVICE: SAP POS SERVICES
- ▷ SAP PRICE OPT. FC SAP Price Optimization f...
- ▷ SAP PROCESS COI SAP BusinessObjects Pr...
- ▷ SAP PROCESS SCI SAP Solution Manager Pr...
- ▷ SAP PROMO MERC SAP PROMOTION MERC...
- ▷ SAP PROMOTION W SAP Promotion
- ▷ SAP PUBLIC BUDG SAP Public Budget
- ▷ SAP PUBLIC SECTI SAP PUBLIC SECTOR C...
- ▷ SAP QUALITY CENT SAP QUALITYCENTER B...
- ▷ SAP R/3 SAP R/3
- ▷ SAP R/3 ENTERPRI SAP R/3 Enterprise
- ▷ SAP REACH COMPI SAP REACH COMPLIAN...
- ▷ SAP REAL ESTATE SAP Real Estate country ...
- ▷ SAP RPM SAP xApp Resource and ...
- ▷ SAP SCM SAP SCM
- ▷ SAP SCM 5.0 ADD- SAP SCM 5.0 ADD-ON Tr...
- ▷ SAP SCM ENHANC SAP SCM Enhance Pack...
- ▷ SAP SEM SAP Strategic Enterprise ...
- ▷ SAP SNC SAP Supply Network Coll...
- ▷ SAP SNC ENHANC SAP SNC Enhance Pack...
- ▷ SAP SOLUTION MAI SAP SOLUTION MANAG...
- ▷ Solution Managr
- ▷ SAP SOLUTI
- ▷ **Z_SOLMAN**

Logical Component: Z_SOLMAN_COMP Active

Product/Prod. Instance: SAP SOLUTION MANAGER [Solution Manager ABAP Stack]

Name: [Empty]

Delivered by SAP:

Component Group: [Empty] [Component Groups](#)

Last Changed On/By: 18.07.2010 15:59:36 SOLMAN_ADMIN

Current System Assignments

[Shipment Routes](#) [System Roles](#) [Namespaces](#) [Related Log. Comp.](#)

System Assignments

Product Version	Development System	Quality Assurance System	Production System	Demo System	Training System	SAP Referenc E
SAP SOLUTION MANAGER 7.0 EHP 1			XTP:001			

Landscape Components Edit Goto Logs Environment Utilities System Help

Display system group for solution "SAP Solution"

System Groups and Logical Components

System Groups and Logi... Description

- ▷ Project Landscapes
- ▷ Solution Landscapes -
- ▷ ERP 6 EHP4
- ▷ New Solution
- ▷ NW 7.1 CE Alaska
- ▷ **SAP Solution**

Leading Role of the Solution: Production System

[Logical Component](#) [System Roles](#) [Product System](#) [Logical Component](#)

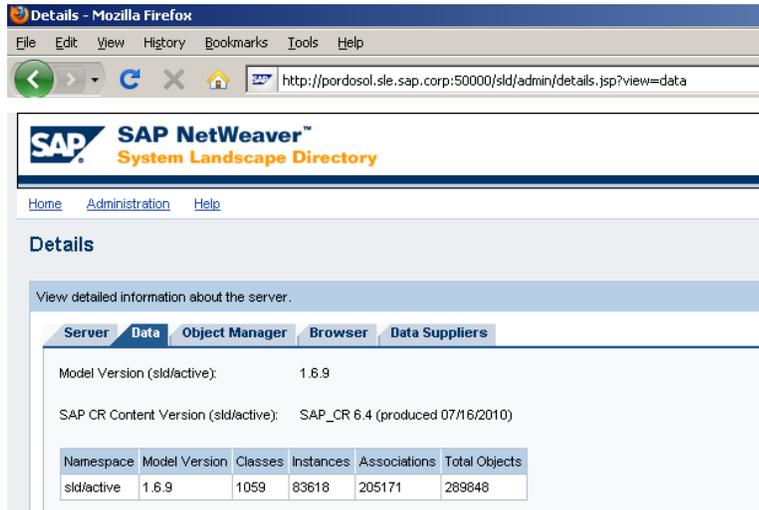
[Complete System Data Replication](#) [Related Log. Comp.](#)

Product [Product Instance]	Product Version	Production System
SAP SOLUTION MANAGER [Solution Manager ABAP Stack]	SAP SOLUTION MANAGER 7.0 EHP 1	XTP:001

5. Updating SLD

You must update SLD according with note 669669.

Checking the SLD CIM and CR data. Go to <http://<SLD Host>:5xx00/sld/> => [Administration](#) => [Details](#) => Data. Where <xx> is the instance number of the J2EE Engine



Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://pordosol.sle.sap.corp:50000/sld/admin/details.jsp?view=data

SAP NetWeaver™
System Landscape Directory

Home Administration Help

Details

View detailed information about the server.

Server Data Object Manager Browser Data Suppliers

Model Version (sld/active): 1.6.9

SAP CR Content Version (sld/active): SAP_CR 6.4 (produced 07/16/2010)

Namespace	Model Version	Classes	Instances	Associations	Total Objects
sld/active	1.6.9	1059	83618	205171	289848

The Component Repository (CR Content) is an integral part of the System Landscape Directory. It is the part of the data that is delivered by SAP. We recommend that you always use the latest version of the CR Content.

The Common Information Model (CIM) is a standard of the Distributed Management Task Force (DMTF) and is based on the object-oriented modeling approach. This standard provides an implementation-neutral schema to describe management information within a computing environment. For more information about CIM and DMTF, see <http://www.dmtf.org>.

CIM is designed to model hardware and software elements. It provides a hierarchical set of core classes, which can be extended with application-specific classes. The SLD is currently based on CIM model 2.9.

Each CIM class has one or more key properties, and a number of additional properties. Each class has an arbitrary number of instances, which contain the actual data. An instance can be uniquely identified by its set of key values.

Classes can be grouped in schemas. The SLD model provides three schemas: component data for installable software, landscape data for installed software and hardware, and name reservation data used in software development.

A special feature of CIM is the association between the classes. Associations are also classes that have two reference keys, each of which identifies exactly one CIM instance. An association therefore connects two instances, as shown in the figure below:

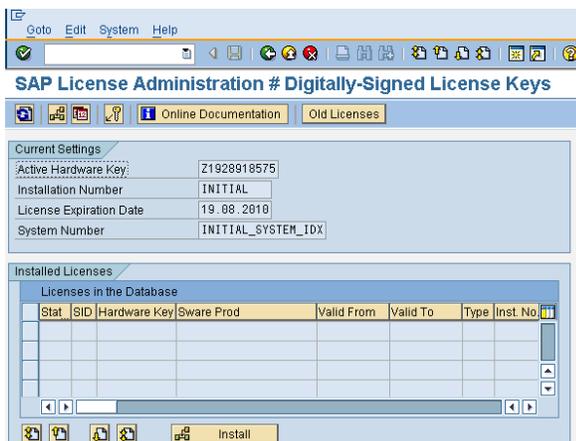
6. Installing the license keys

You must ensure that the ABAP and JAVA instances have the license keys correctly assigned. Check the screenshots below. You must assign the license keys for Managing and Managed systems.

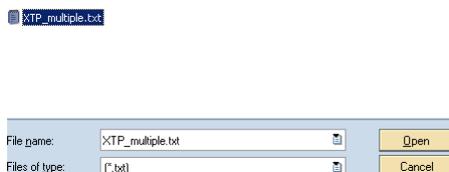
For more informations, check note 870871- License key installation

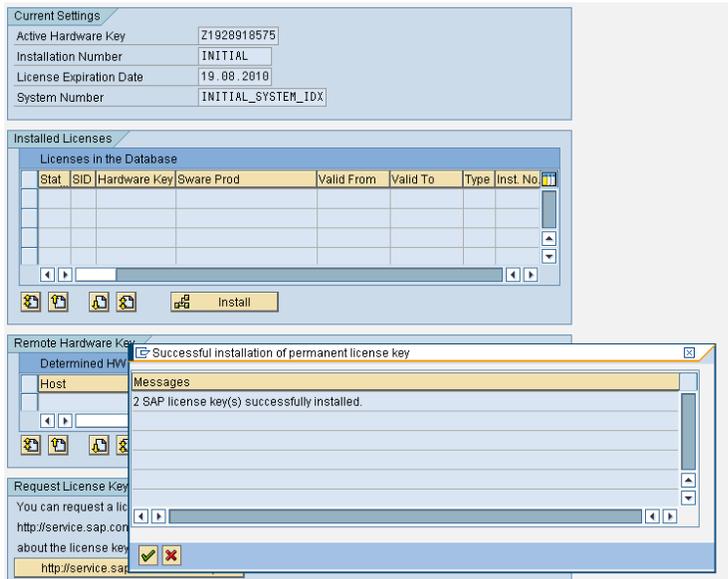
ABAP => Go to Slicense transaction

Click in New licenses and select install

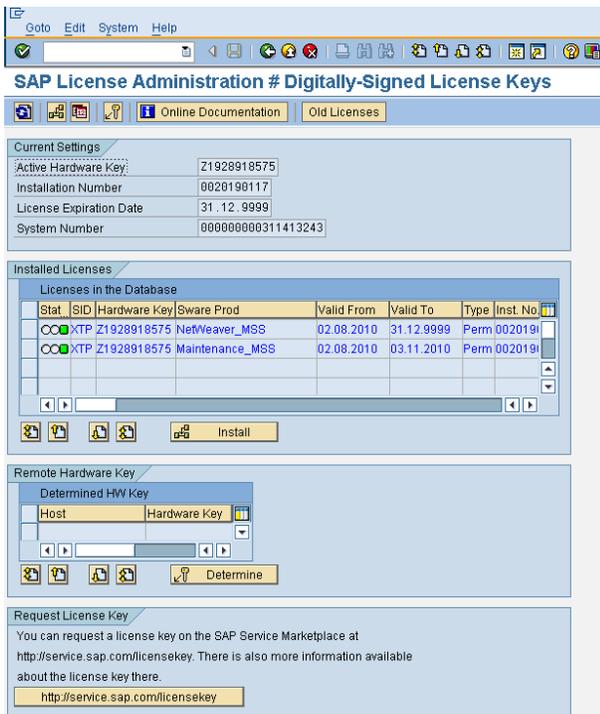


Select the Installation License and click open





License keys installed for Abap



Installing License key in the Java Stack

Go to Visual Administrator => Server => Services => Licensing Adapter and install the license file to Java

7. Configuration for Secure Connection to SLM

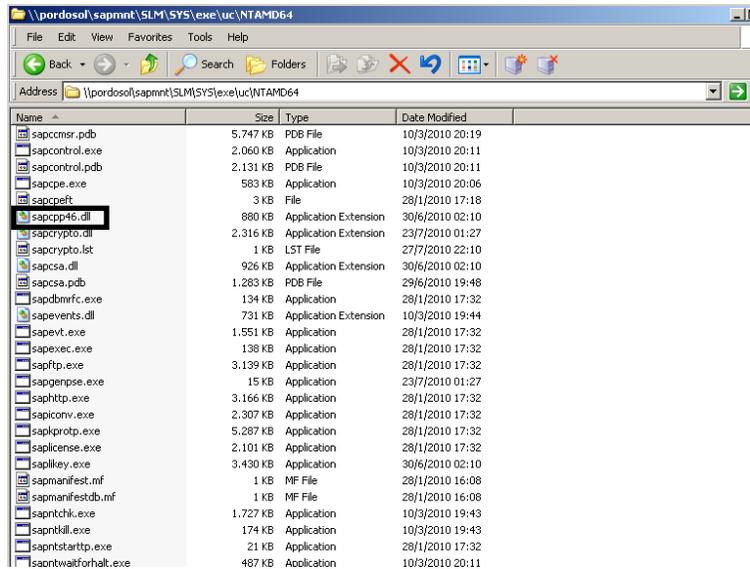
The Secure Sockets Layer (SSL) is mandatory for accessing Web services for the component SOFTWARE LIFECYCLE 7.01.

Follow the steps in this section.

7.1 Setting up SAP Cryptographic Library for SLM Secure Connection

Set up SAP Cryptographic Library on the managing SAP Solution Manager system. More information: SAP Note 1138061 - Maintenance Optimizer: HTTPS Connection for SLM

o Install the SAP Cryptographic Library on the application server (see SAP Note 510007, step 1).



o Set the profile parameters (see SAP Note 510007, step 2).

ssf/name = SAPSECULIB

ssf/ssfapi_lib = <Path and file name of the SAPCRYPTOLIB>

sec/libsapsecu = <Path and file name of the SAPCRYPTOLIB>

ssl/ssl_lib = <Path and file name of the SAPCRYPTOLIB>

icm/server_port_X = PROT=HTTPS,PORT=<Port number of the HTTPS log>

If you want to use a key length of 1024 bits (only with kernel release 6.20 and higher, see Note 509495):
sec/rsakeylengthdefault = 1024

```

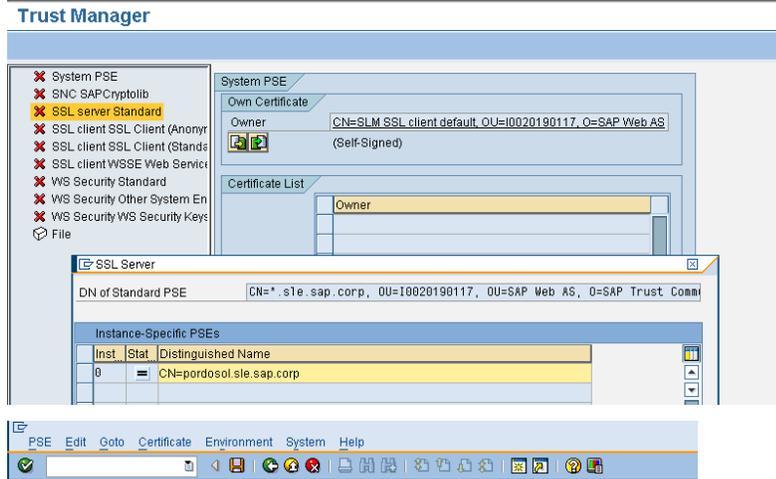
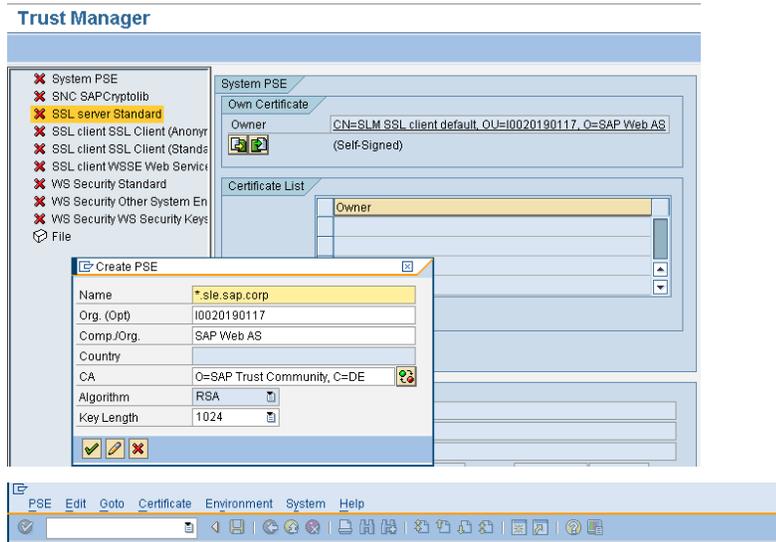
#####
#
# Instance profile SLM_DVEBMGS00_PORDOSOL
#
# Version = 000013
# Generated by user = SLMIR15763
# Generated on = 17.02.2010 , 20:15:00
#
#####
icm/server_port_2 = PROT=HTTPS,PORT=443
Parameter created by: SOL
icm/ssl_lib = $(DIR_EXECUTABLE)\sapcrypto.dll
sec/libsapsecu = $(DIR_EXECUTABLE)\sapcrypto.dll

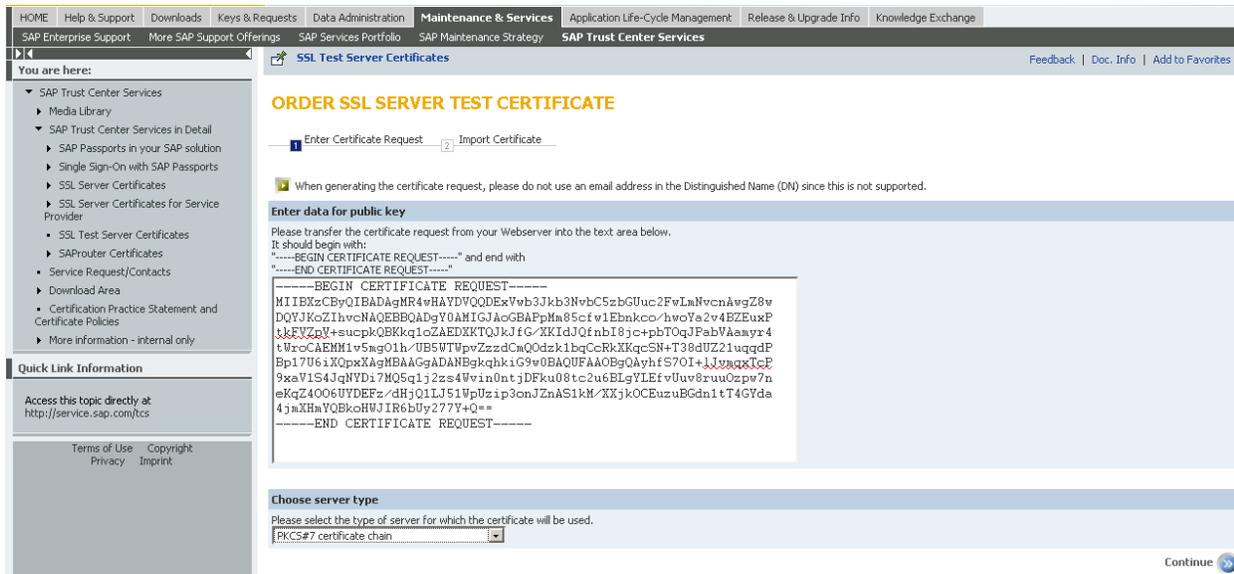
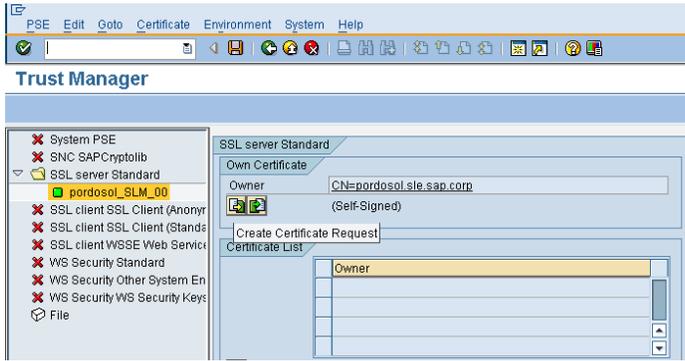
```

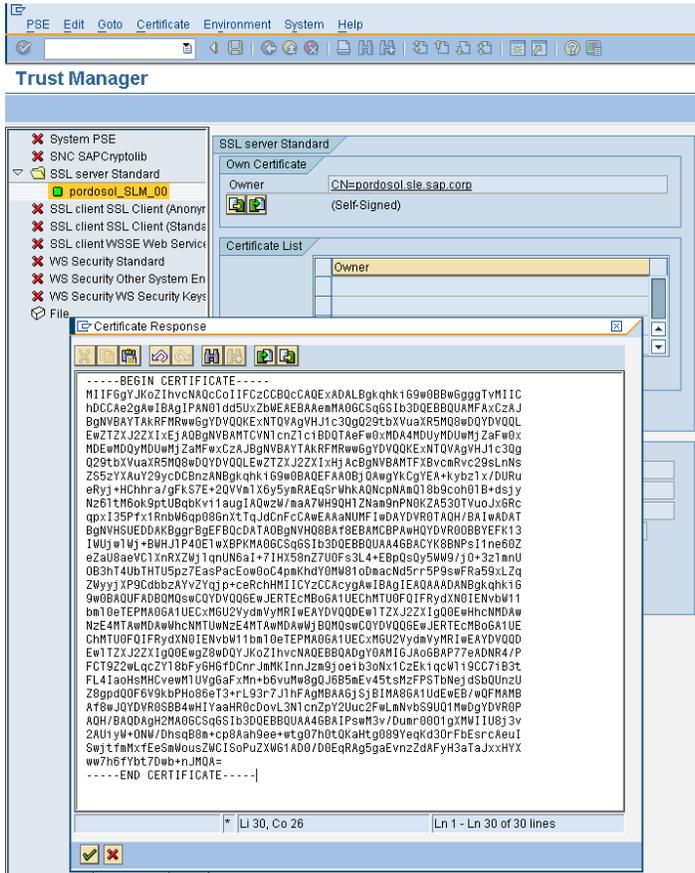
```

#parameter created ..... by: SOL
1cm/server_port_1 = PROT=SMTP,PORT=25000
#parameter created ..... by: SOL
!startup/recorder = java -classpath ../j2ee/cluster
SAPSYSTEMNAME = SLM
SAPGLOBALHOST = pordosol
SAPSYSTEM = 00
INSTANCE_NAME = DVEBMGS00
DIR_CT_RUN = $(DIR_EXE_ROOT)\$(OS_UNICODE)\NTAMD64
DIR_EXECUTABLE = $(DIR_INSTANCE)\exe
!startup/trimming_properties = off
!startup/protocol = on
#parameter created ..... by: SOL
#old_value: $(DIR_EXECUTABLE)/sapcrypto.d11
#old_value: $(DIR_EXECUTABLE)/sapcrypto.d11
sec/rsakeylengthdefault = 1024
#old_value: $(DIR_EXECUTABLE)/sapcrypto.d11
SSL/SSL_110 = $(DIR_EXECUTABLE)/sapcrypto.d11
#parameter created ..... by: SOL
!startup/vm/home = C:\j2cdk1_4_7_23-v64\
    
```

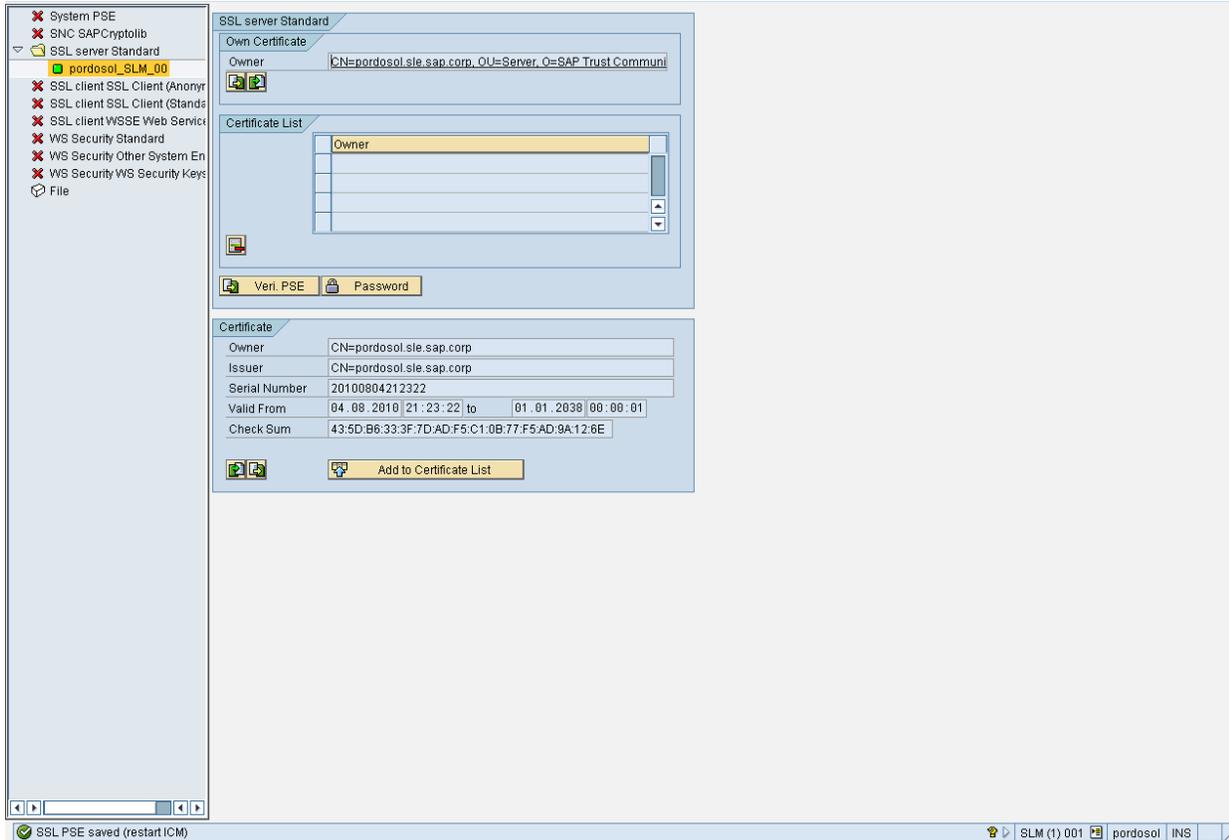
o Create the SSL server PSEs and SSL client PSEs (standard or anonymous) (see SAP Note 510007, step 3a, 3b, and 4).



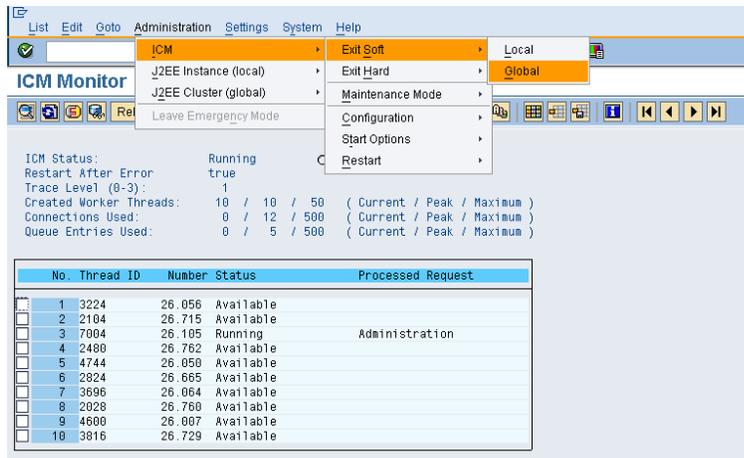




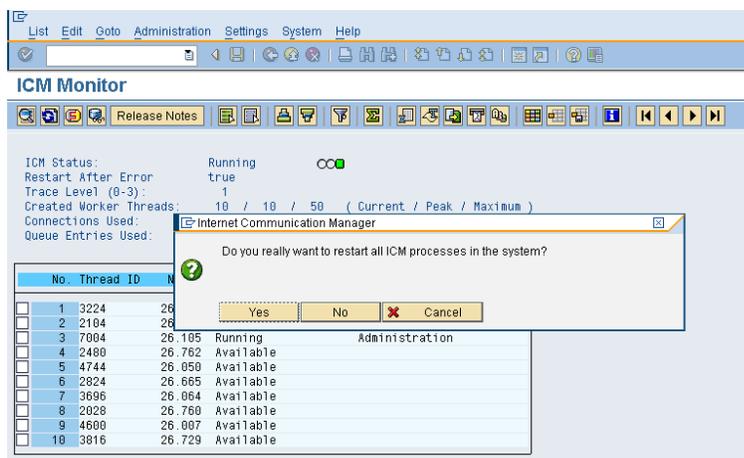
Restart ICM



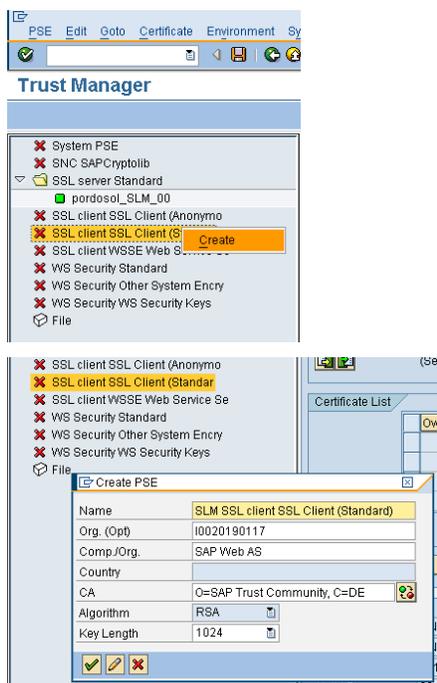
SMICM



Yes



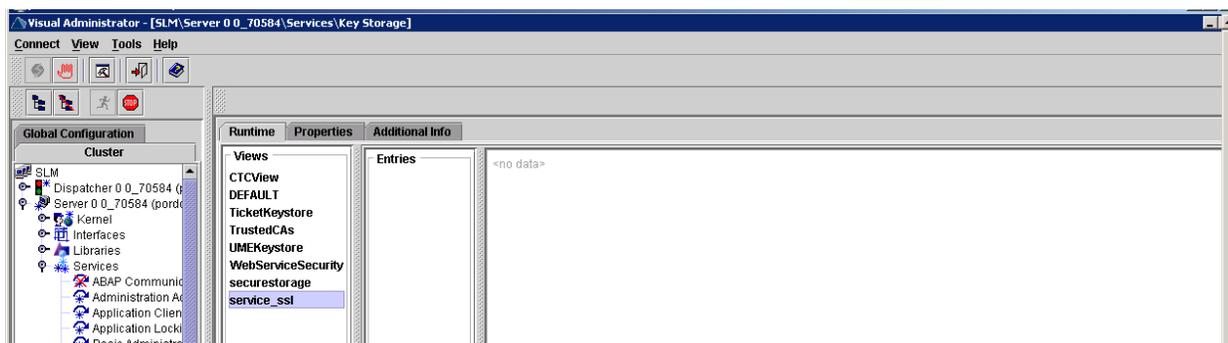
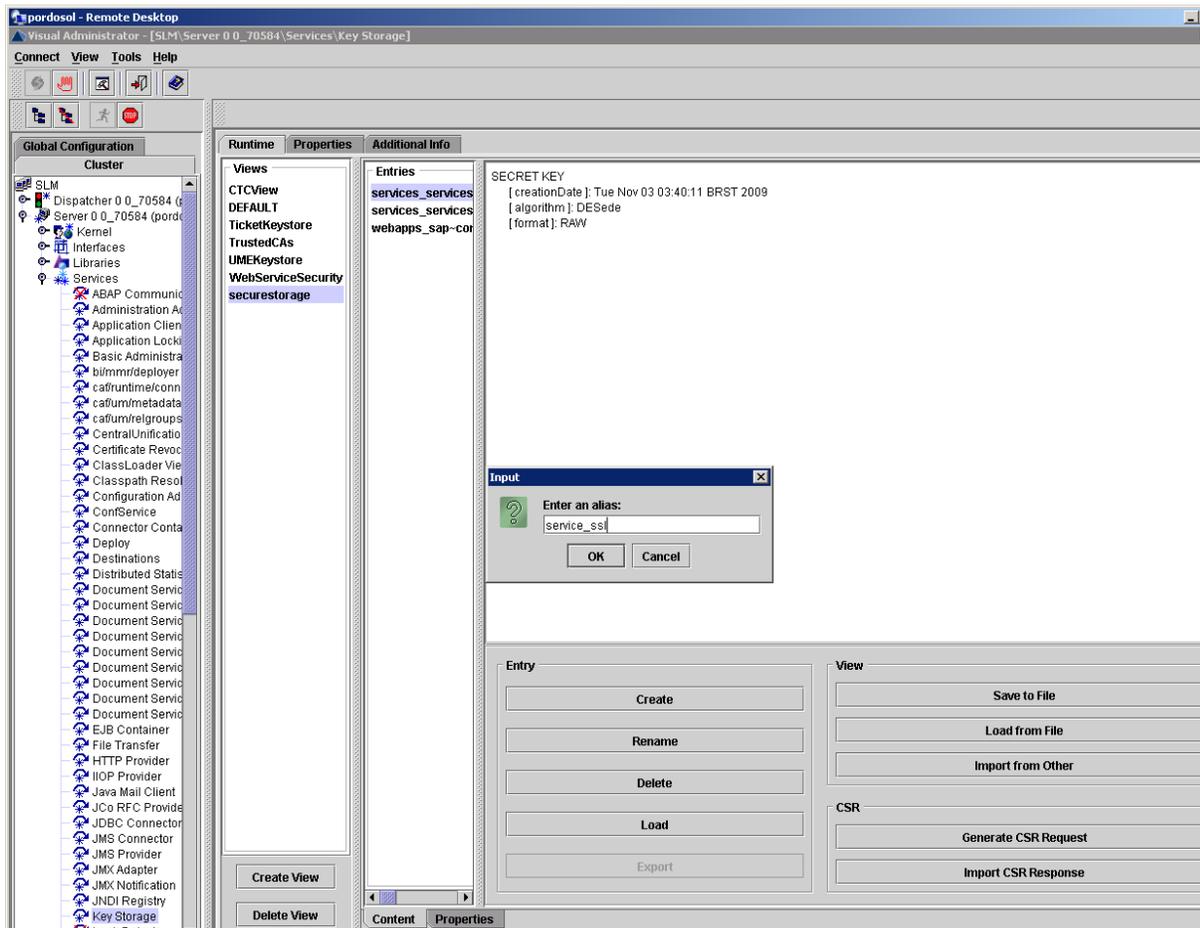
SSL Client Standard

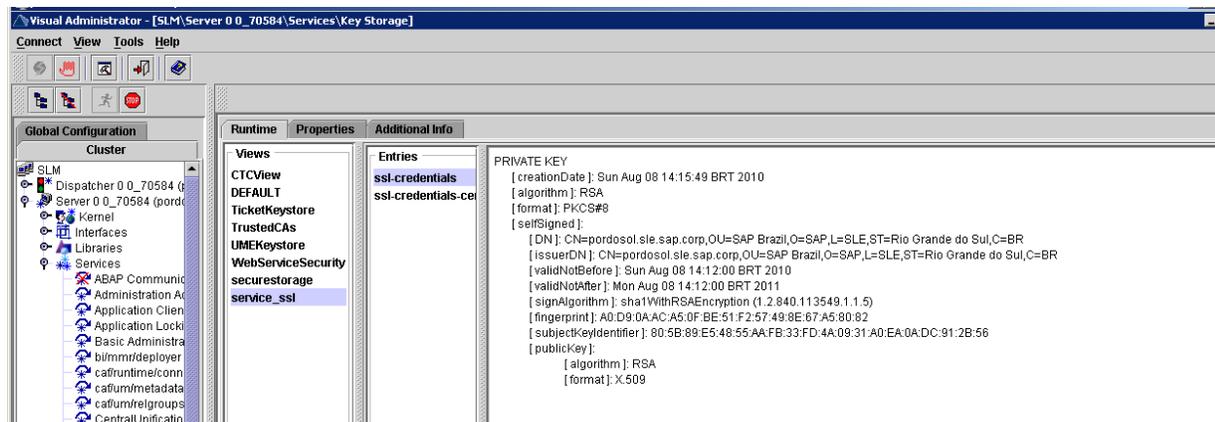
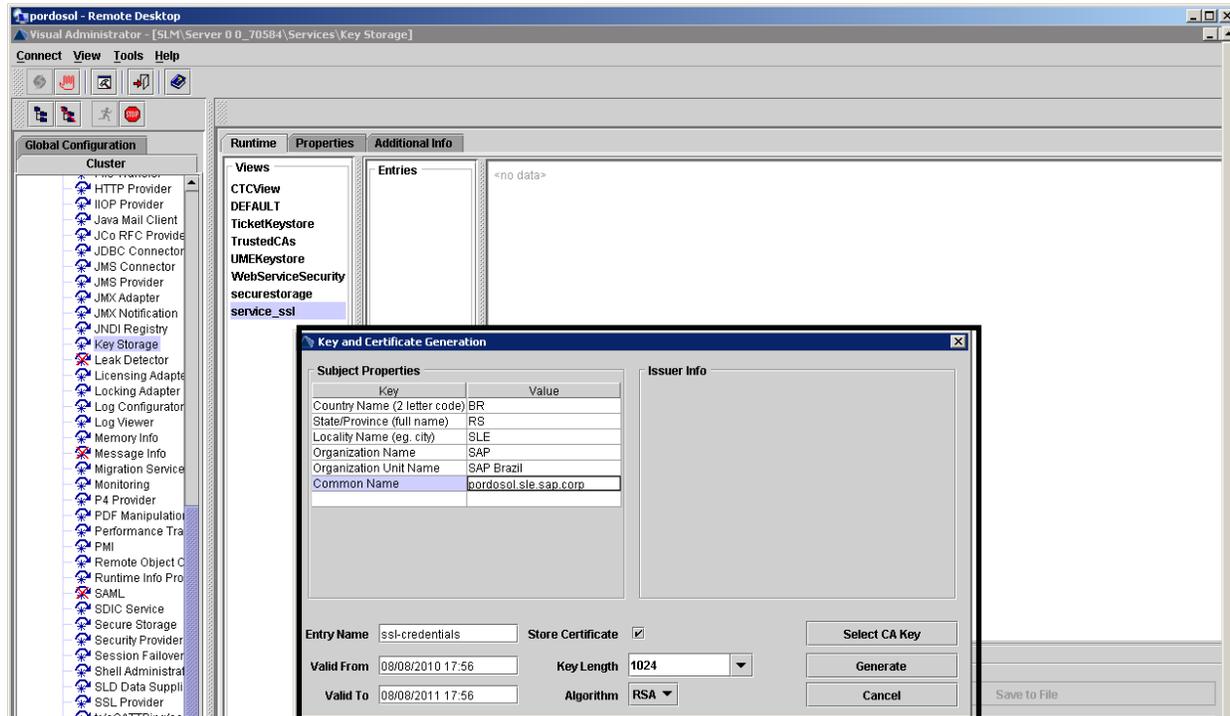


7.2 Generation and Import of SSL Certificate for SLM Secure Connection

Generate the SSL certificate on the managing SLM system (server side). More information: SAP Help Portal at <http://help.sap.com> *SAP NetWeaver SAP NetWeaver 7.0 including Enhancement Package 1 <language> SAP NetWeaver Library SAP NetWeaver by Key Capability Security Network and Transport Layer Security Transport Layer Security on the SAP J2EE Engine Configuring the Use of SSL on the J2EE Engine*
Trigger the import of the SSL certificate on the managing SAP Solution Manager system (client side).

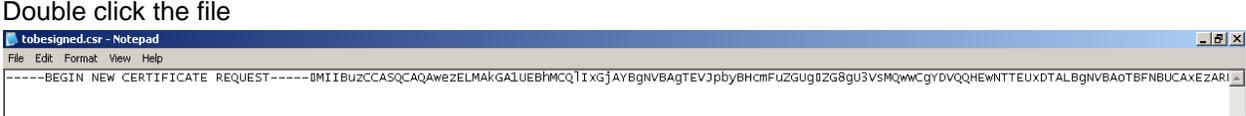
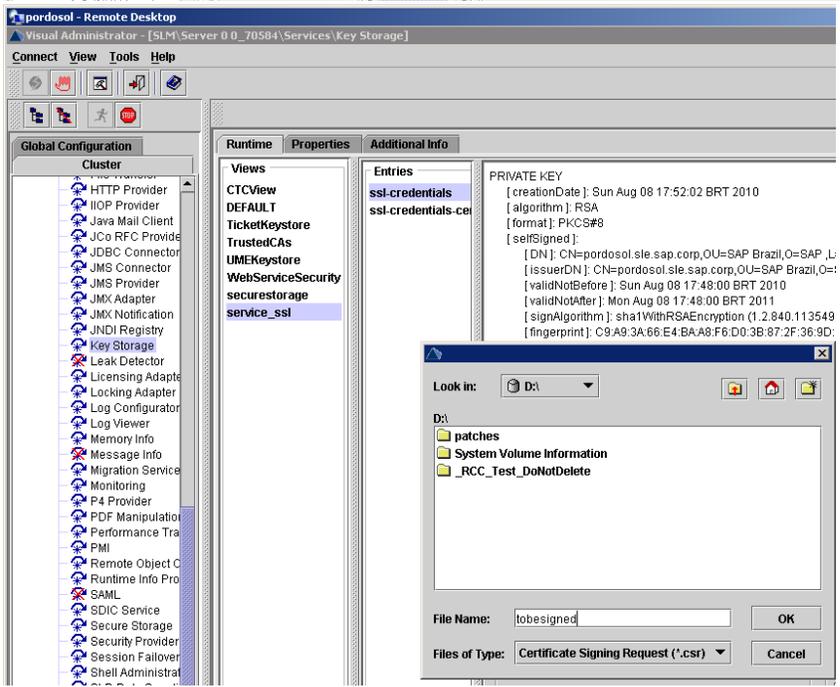
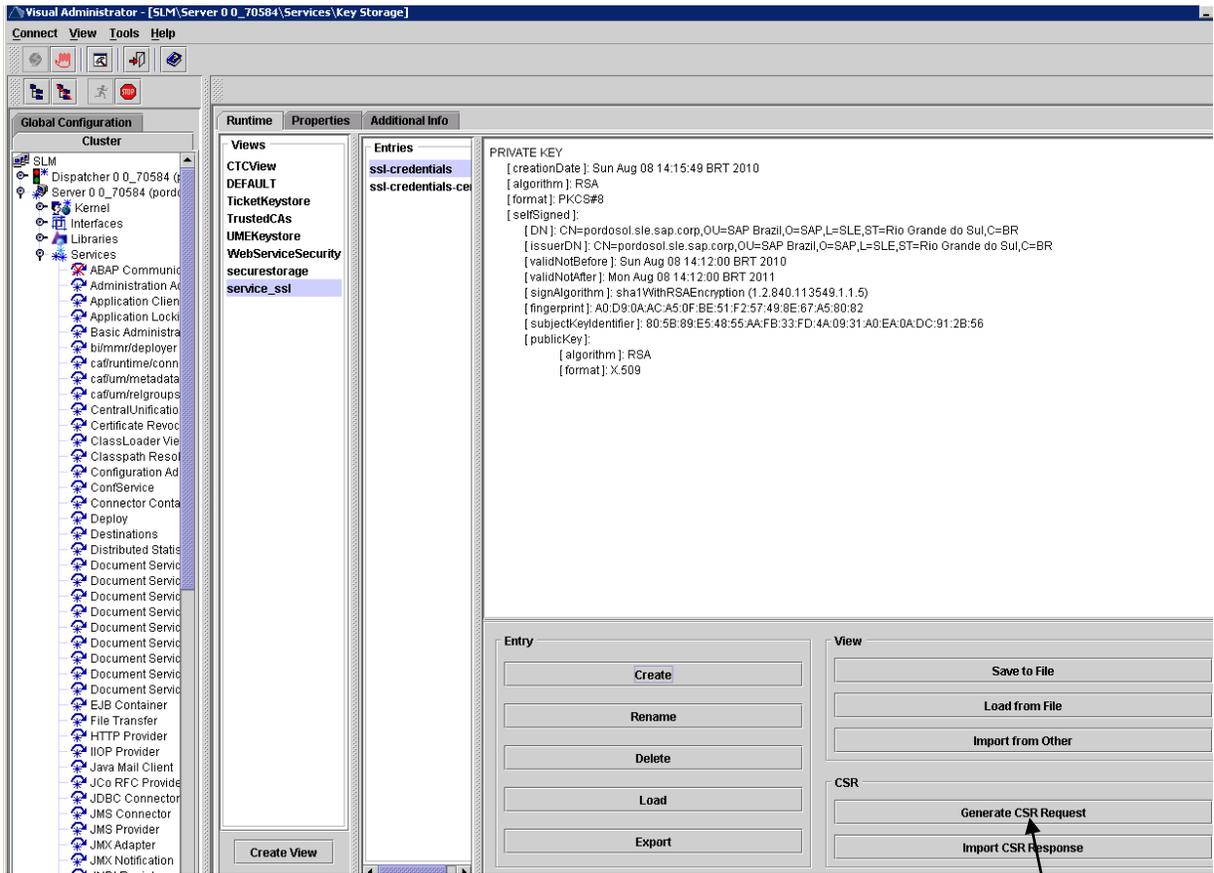
1. Log in to the managing SAP Solution Manager system and run the trust manager with transaction code **STRUST**.
2. In the left screen area, choose *SSL client (Anonymous or Standard)*.
3. In the right screen area, click the icon with quick info *Import Certificate* to import the crt file with format *binary*.



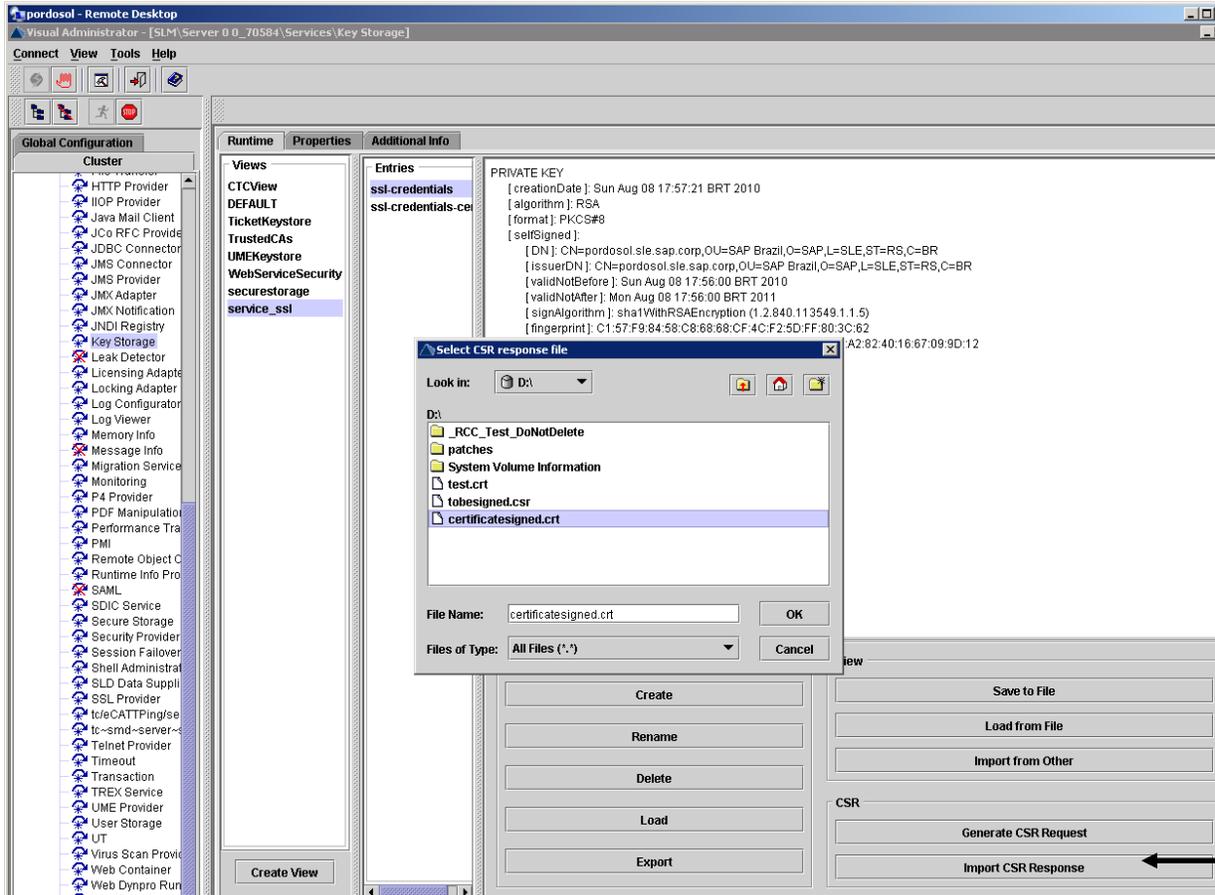


4. If the corresponding certificate has not yet been signed by a CA, then:

- a. Generate a certificate signing request. Select your entry, choose Generate CSR Request and save it to a file.



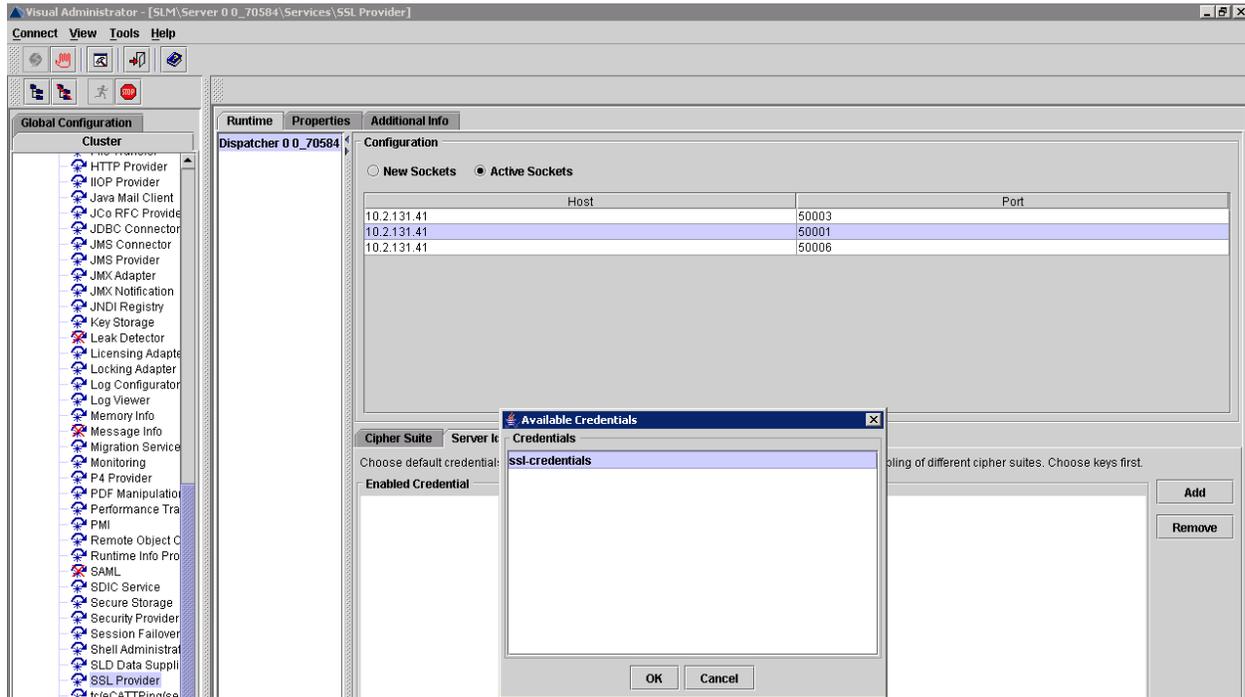
b. Send the certificate signing request to a CA to be signed.



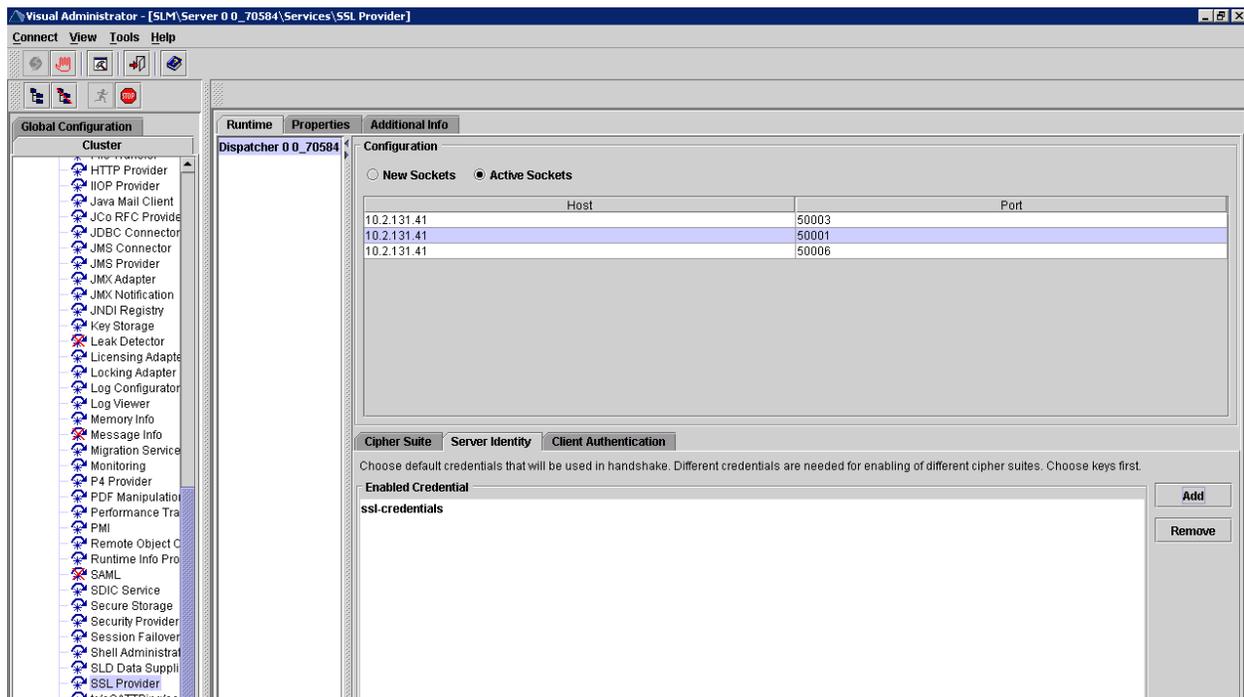
For each server process that is to support SSL:

1. Choose "Cluster -> Server... -> Services -> SSL Provider"..
2. Select the corresponding J2EE dispatcher.

The available sockets and their corresponding ports appear in the Configuration pane.



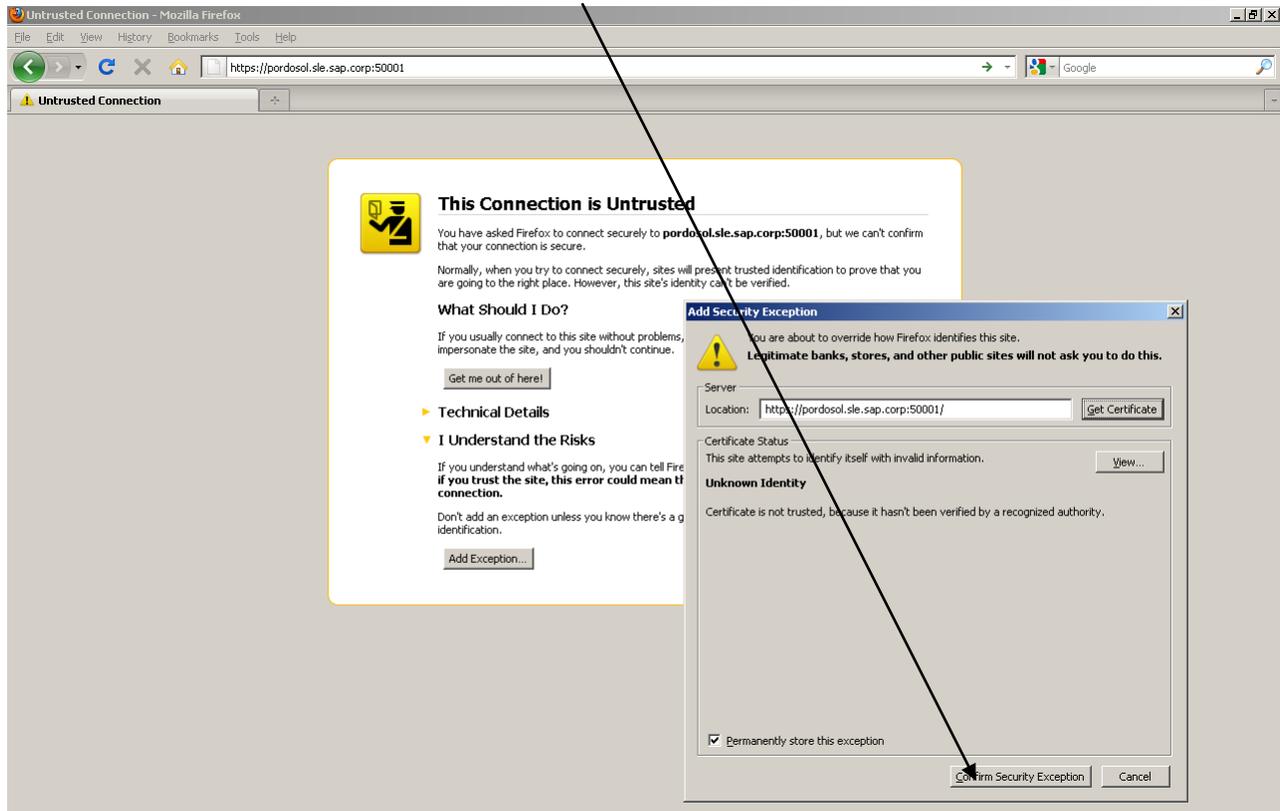
3. Select the socket that corresponds to the SSL port you want to configure. Usually is port 5<nr>01.
4. In the Server Identity tab page, select the key pair entry to use for this port. (Choose Add.).



5. If the server process is to accept the use of client certificates for authentication, then set this option in the Client Authentication tab page. Also maintain the list of trusted certificates in the Trusted Certification Authorities section. Add the new certificate to "Enabled Credential".

3) Go to <https://hostname> with FQDN:5xx01/index.html

How to Install the certificate in Firefox. Click here

**[SAP Help Portal](#)**

SAP Help Portal contains the complete documentation for SAP NetWeaver Application Server Java. Navigate to *SAP NetWeaver*.

[System Information](#)

System information provides administrators with an overview of the system configuration and its state. It shows all of the system's instances and processes, their current state and important parameters (such as ports) that may be required for support cases, as well as the versions of the components installed.

[User Management](#)

The user management administration console provides administrators with the functions they need to manage users, groups, roles, and user-related data in the User Management Engine (UME). Users without administrator permissions can use it to change their user profile.

[UDDI Client](#)

The UDDI client provides query and publishing functions for different Web service entities to any UDDI compliant registry.

[SAP NetWeaver Administrator](#)

SAP NetWeaver Administrator can be used in a central or local scenario for administration and monitoring the SAP NetWeaver system landscape.

[Web Services Navigator](#)

Web Services Navigator is a tool that gives you a short overview of a specific Web service based on its WSDL, and enables you to test your Web service by creating and sending a client request to the real end point.

[Web Dynpro Tools](#)

Web Dynpro tools provide administrators and application developers performance measurement and application administration capabilities for the SAP NetWeaver User Interface technology.

7.3 Using the maintenance transaction for RFC destinations (SM59)

- 1 Create an RFC connection of type "G" (HTTP connection to external server).
- 2 Enter the data for the J2EE Engine on which SLM is installed, on the Technical Settings tab page:

- o Target Host: <Server><fully-qualified domain name>
 - o Service No.: HTTPS port 50001
 - o Application path: /slmSolManServices/Config1
- Choose save.

On the Logon & Security tab page:

- o Logon Procedure: Basic Authentication
 - o SSL: Active, and select the proper SSL Client certificate (standard or anonymous), from where you imported the certificate from the SLM server.
 - o Logon: Enter your user and password. Choose Save.
- 3 Choose "Connection Test" to check that the connection is correct.

The screenshot shows the SAP SM59 transaction for RFC Destination SLMTEST. The 'Technical Settings' tab is active. The 'Target System Settings' section contains the following fields:

Target Host	pordosol.sle.sap.corp	Service No.	5000
Path Prefix	/slmSolManServices/Config1		

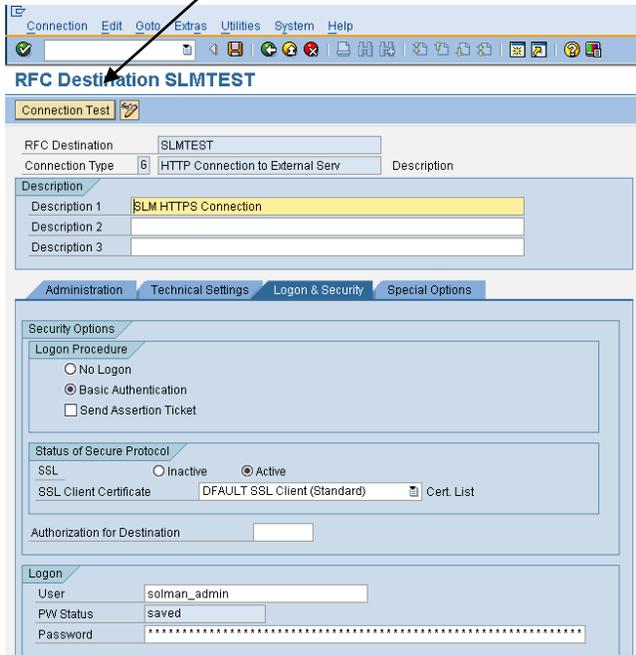
The 'HTTP Proxy Options' section is also visible, with 'Global Configuration' selected and 'Proxy PW Status' set to 'is initial'.

The screenshot shows the SAP SM59 transaction for RFC Destination SLMTEST, with the 'Logon & Security' tab active. The 'Security Options' section contains the following fields:

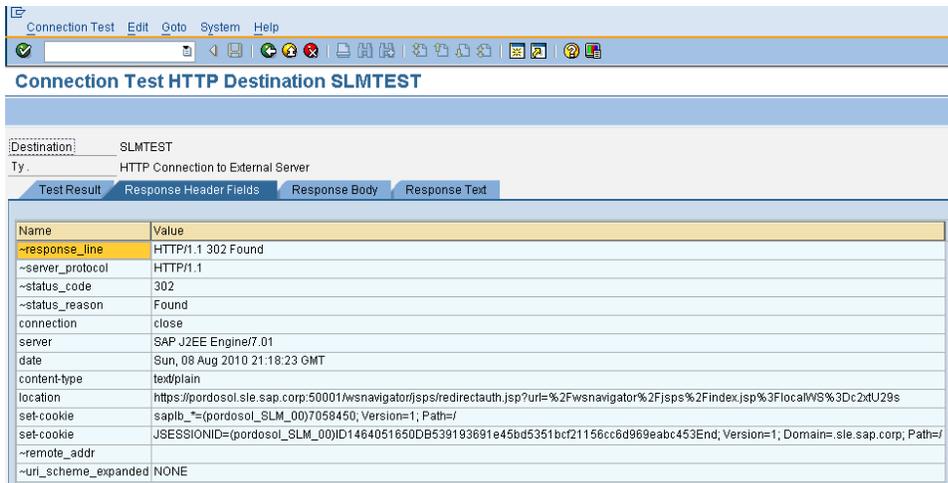
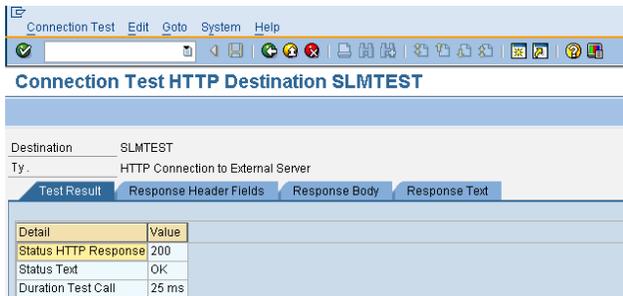
Logon Procedure	<input type="radio"/> No Logon <input checked="" type="radio"/> Basic Authentication <input type="checkbox"/> Send Assertion Ticket
Status of Secure Protocol	<input type="radio"/> Inactive <input checked="" type="radio"/> Active
SSL Client Certificate	DEFAULT SSL Client (Standard) Cert. List

The 'Logon' section at the bottom shows the User field set to 'solman_admin' and the PW Status set to 'saved'.

Execute a connection test



It worked



8. Software Logistics Controller – SLC

For the managed system which is of SAP NetWeaver release 7.0x, install the latest patch of SLC 700;

For the managed system which is of SAP NetWeaver release 7.1x, 7.2x or 7.3x, install the latest patch of SLC 720.

The requisite lowest patch of SLC 700 for Maintenance Optimizer SP22 is patch 21; the requisite lowest patch of SLC for Maintenance Optimizer SP22 is patch 1.

To install the SLC:

1. Set up Java runtime environment with at least version 1.4.x for SLC 7.0x and 1.5.x for SLC 7.1x.
2. Download the latest Software Logistics Controller (SLC) from SAP Service Marketplace at <http://service.sap.com/patches> => [Support Packages and Patches - Entry by Application Group](#) => [Additional Components](#) => [SL CONTROLLER](#) => [SL CONTROLLER 7.00](#) => [# OS independent](#) =>

HOME Help & Support Downloads Keys & Requests Data Administration Maintenance & Services Application Life-Cycle Management Release & Upgrade Info Knowledge Exchange

SAP Software Distribution Center SAP Support Packages SAP Installations & Upgrades Business Objects Downloads Database Patches Download Basket Additional Download Info

You are here: # OS independent

SUPPORT PACKAGES AND PATCHES - ENTRY BY APPLICATION GROUP

Support Packages and Patches - Entry by Application Group -> Additional Components -> SL CONTROLLER -> SL CONTROLLER 7.00

SL CONTROLLER 7.00

OS independent

Info Page Downloads

SL CONTROLLER 7.00 -> # OS independent

You can download one or more files by activating the check box on the left and clicking the button "Add to Download Basket". Please [click here for more detailed information](#). Click on to request Side Effects report.

Add to Download Basket Maintain Download Basket Select All Deselect All

The following objects are available for download:

File Type	Download Object	Title	Patch Level	Info File	File Size [kb]	Last Changed
<input type="checkbox"/>	SAR	LUP_26-20002695_SAR	Patch for SL CONTROLLER 7.00 SP	26	Info	21585 14.05.2010

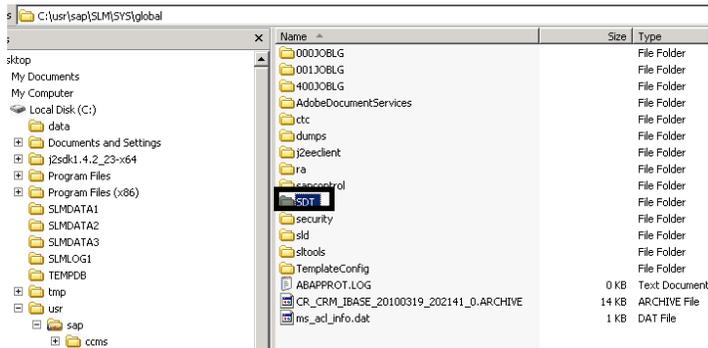
Add to Download Basket Maintain Download Basket Select All Deselect All

3. Create the directory /usr/sap/<SID>/SYS/global/SDT. On UNIX systems, the SDT directory owner must be the <sid>adm user, the group must be sapsys.

Managing system and Managed system

C:\usr\sap\XTP\SYS\global

Name	Size	Type	Date Modified	Attrib.
000JOBLOG		File Folder	8/5/2010 5:00 PM	
001JOBLOG		File Folder	8/5/2010 4:34 PM	
AdobeDocumentServices		File Folder	7/22/2010 7:04 PM	
i2eeclient		File Folder	7/22/2010 6:56 PM	
ra		File Folder	7/22/2010 6:56 PM	
scontrol		File Folder	7/22/2010 7:54 PM	
SDT		File Folder	8/3/2010 6:16 PM	
security		File Folder	7/22/2010 4:48 PM	
sld		File Folder	7/22/2010 6:57 PM	
stools		File Folder	7/22/2010 6:57 PM	
TemplateConfig		File Folder	7/22/2010 6:57 PM	
ABAPPROT.LOG	0 KB	Text Document	7/22/2010 6:38 PM	A
ms_ad_info.dat	1 KB	DAT File	7/22/2010 4:49 PM	A



4. Change to the directory /usr/sap/<SID>/SYS/global/SDT.
5. Copy the SDTServer archive LUP.SAR to the SDT directory.
6. Run SAPCAR -xvf LUP.SAR with the OS user <SID>adm; on UNIX systems also run the command `chmod a+x exe/*`.
7. If you install the SLC on an ABAP-only system, switch off the configuration tool: open the file /usr/sap/<SID>/SYS/global/SDT/config/sdtserver.xml; go to section <SecuritySettings> and change the settings to off for UseSecStore, UseRemoteConfigManager and UseConfigManager.
8. Configure the SLC of this managed system in the *Multiple Software Lifecycle Manager Configuration Assistant*. For more information, see 4.4 *SLM Configuration* [page 8].

9. Installation and Configuration of Software Lifecycle Manager – SLM

Install (or update to) the Software Lifecycle Manager (SLM) to the latest available patch of the support package equal to or higher than 7.01 SP5 patch 2. More information: SAP Help Portal at <http://help.sap.com> *SAP NetWeaver SAP NetWeaver 7.0 including Enhancement Package 1 <language> SAP NetWeaver Library SAP NetWeaver by Key Capability Solution Life Cycle Management by Key Capability Software Life-Cycle Management Software Lifecycle Manager Working with the SLM Installing Live Update*

Installing Live Update

Prerequisites

- The SL controller is applied.

The SLD data suppliers are set up correctly in the systems that have to report system data automatically. For more information, see the SAP Service Marketplace at service.sap.com/sld Media Library User Manual – SLD of SAP NetWeaver 7.0 Configuring Systems to Connect to SLD

Procedure

1. Deploy latest SP Stack with JSPM to get latest SLM version. SLM should be on the same J2EE Engine on which SLD is running.

SLM System Info - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://pordosol.sle.sap.corp:50000/monitoring/ComponentInfo

System SLM

Software Vendor	Components Name	Version	Provider	Location	Applied
sap.com	ADSSAP	7.01 SP6 (1000.7.01.6.1.20100422070337)	SAP AG	SAP AG	20100502170710
sap.com	BASETABLES	7.01 SP6 (1000.7.01.6.0.20100108124309)	SAP AG	SAP AG	20100502160604
sap.com	BI_MMR	7.01 SP6 (1000.7.01.6.0.20100108124413)	SAP AG	SAP AG	20100502162411
sap.com	BI_UDI	7.01 SP6 (1000.7.01.6.0.20100108124432)	SAP AG	SAP AG	20100502162916
sap.com	CAF	7.01 SP6 (1000.7.01.6.0.20100108200548)	SAP AG	MAIN_NW701P06_C	20100502163107
sap.com	CAF-UM	7.01 SP6 (1000.7.01.6.0.20100108200554)	SAP AG	MAIN_NW701P06_C	20100502162416
sap.com	CORE-TOOLS	7.01 SP6 (1000.7.01.6.3.20100602091716)	SAP AG	SAP AG	20100607170747
sap.com	ISAGENT	8 SP2 (8.2.2.0.20100422140306)	SAP AG	SAP AG	20100524203738
sap.com	JLOGVIEW	7.01 SP6 (1000.7.01.6.1.20100416083200)	SAP AG	SAP AG	20100502165210
sap.com	JSPM	7.01 SP7 (1000.7.01.7.0.20100612164500)	SAP AG	SAP AG	20100719145354
sap.com	KM-KW_JIKS	7.01 SP6 (1000.7.01.6.0.20100108125451)	SAP AG	SAP AG	20100502162430
sap.com	LM-SERVICE	7.01 SP7 (1000.7.01.7.0.20100326102500)	SAP AG	SAP AG	20100510205813
sap.com	LM-TOOLS	7.01 SP6 (1000.7.01.6.3.20100527062834)	SAP AG	MAIN_NW701P06_C	20100708113718
sap.com	SAP-JEE	7.01 SP6 (1000.7.01.6.3.20100603141613)	SAP AG	SAP AG	20100607171932
sap.com	SAP-JEECOR	7.01 SP6 (1000.7.01.6.9.20100611115524)	SAP AG	SAP AG	20100621104401
sap.com	SAP_JTECHF	7.01 SP6 (1000.7.01.6.5.20100428080035)	SAP AG	SAP AG	20100524182313
sap.com	SAP_JTECHS	7.01 SP6 (1000.7.01.6.8.20100630102532)	SAP AG	SAP AG	20100708113258
sap.com	SWLIFECYCL	7.01 SP7 (1000.7.01.7.0.20100622150309)	SAP AG	MAIN_NW701P07_C	20100719150437
sap.com	UMEADMIN	7.01 SP6 (1000.7.01.6.1.20100212112710)	SAP AG	MAIN_NW701P06_C	20100502172038

2. Create SLM security roles. For more information, see [SLM Security Roles](#)

Welcome ultimo SOLMAN_ADMIN

Identity Management | Import | Configuration | Consistency Check

Search

Search Criteria: User | All Data Sources | solman_admin | Go | Advanced Search

Select All | Deselect All | Create User | Copy to New User | Delete | Unlock | Lock | Generate New Password | Export

Type	Status	Login ID	Name	Department	Data Source
		IB22997	SOLMAN_ADMIN,		ABAP
		IB23057	SOLMAN_ADMIN,		ABAP
		IB23077	SOLMAN_ADMIN,		ABAP
		IB24464	SOLMAN_ADMIN,		ABAP
		SOLMAN_ADMIN	SOLMAN_ADMIN_ultimo		ABAP

Row 9 of 13

Details of User SOLMAN_ADMIN

Modify

General Information | Account Information | Contact Information | Additional Information | Assigned Roles | Assigned Groups | User Mapping for System Access | E-mail Signature

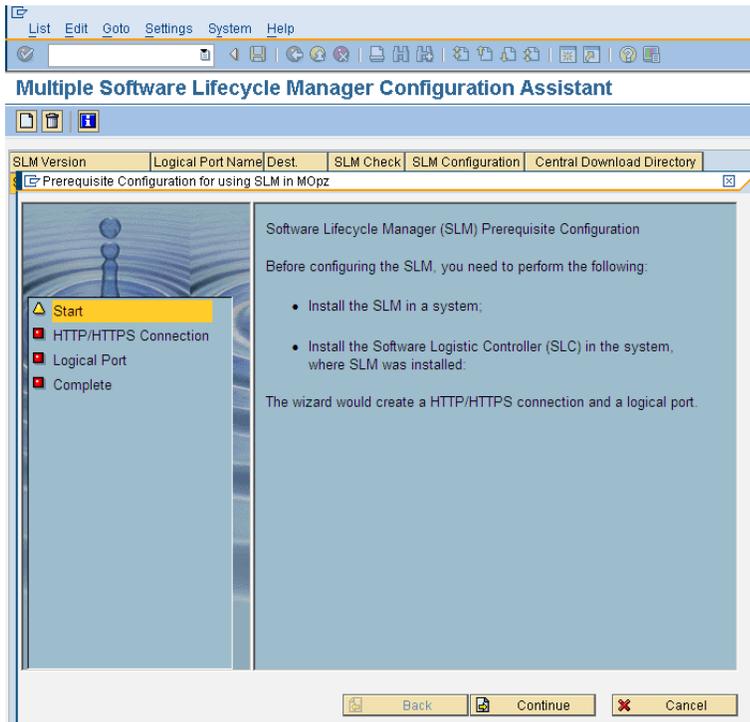
Assigned Roles

Search Criteria: All Data Sources | Search Recursively | Go

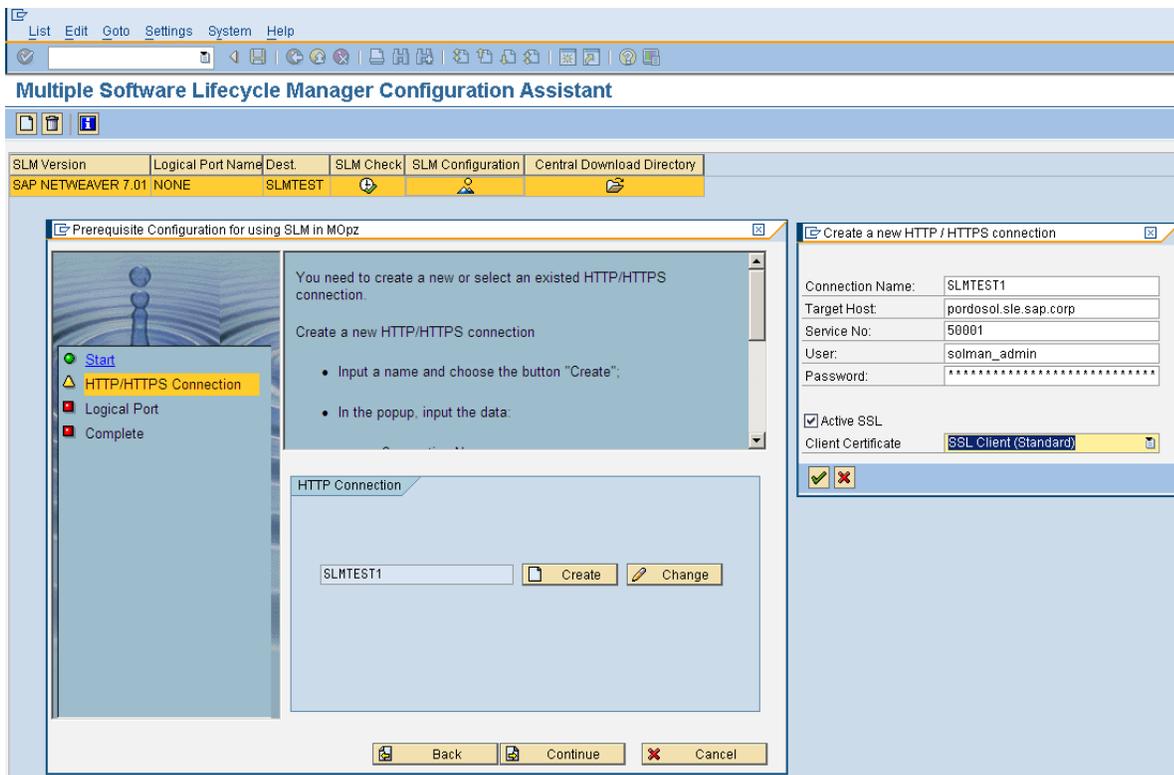
Name	Description	Data Source
StnAdministrator		UME Database

3. Configure SLM with the help of Solution Manager.

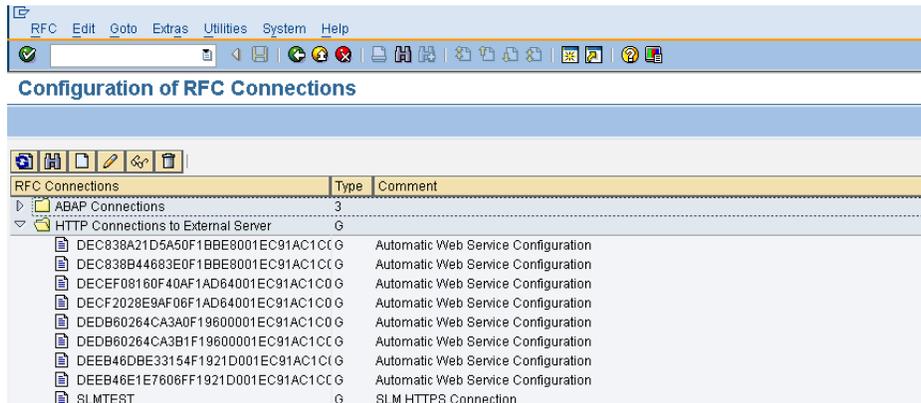
Transaction => /tmwflow/mopzcfg => Create



Use the HTTP connection created before or create a new one as showed below.



Connection Name: Name of HTTP connection to external Server

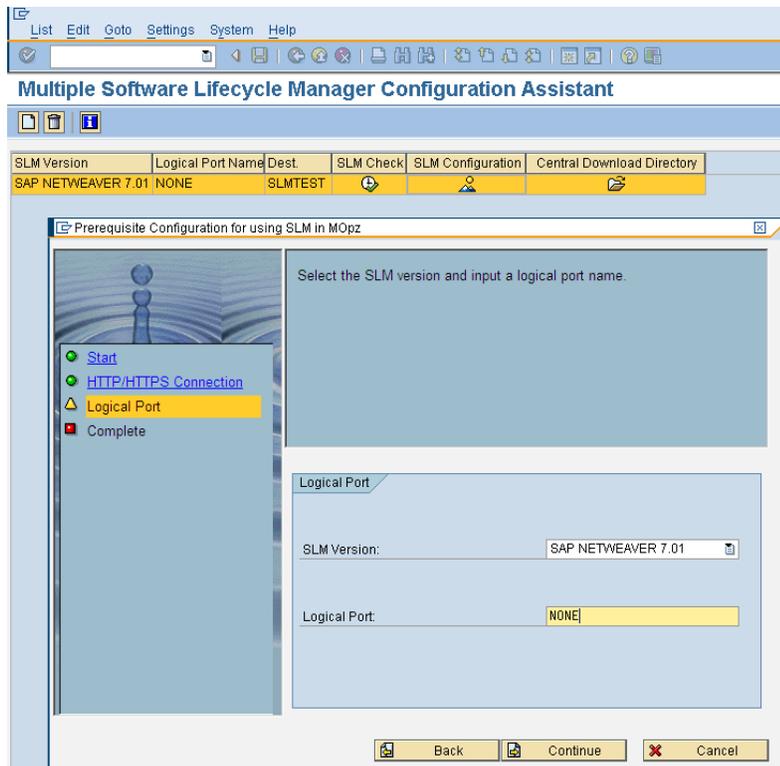


Target Host: hostname where the SLM service is located, in this case SLM is the Solution Manager.

Service No.: HTTPs port configured in SSL Configuration

User/Password: User assigned to role SLMAdministrator in step 2

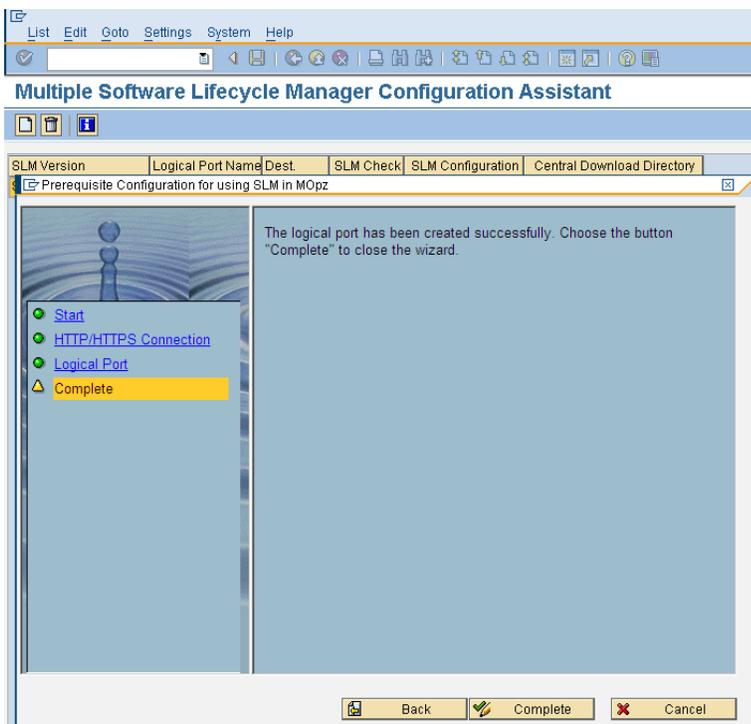
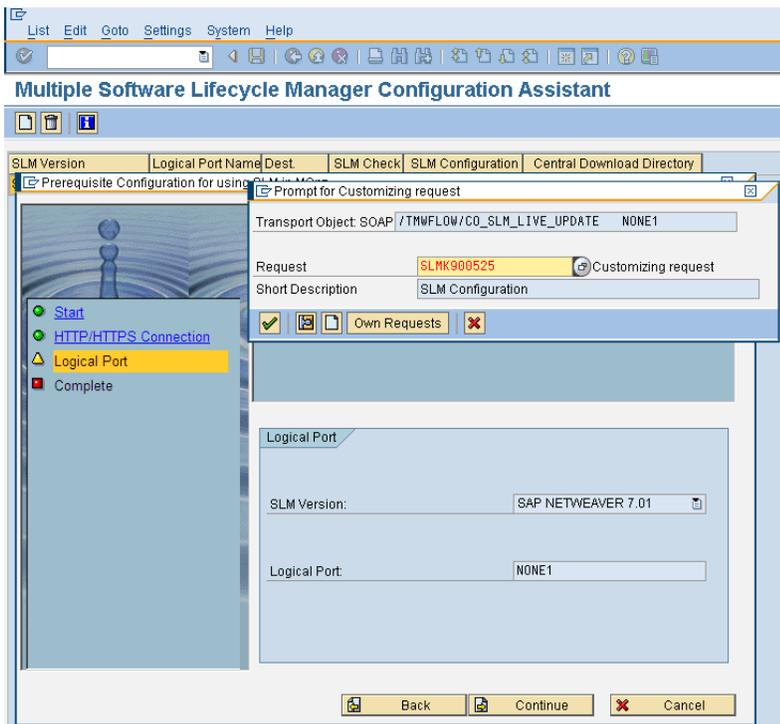
Activate SSL: Check this option and select the certificate configured in SSL Configuration. In this case SSL Client (Standard)

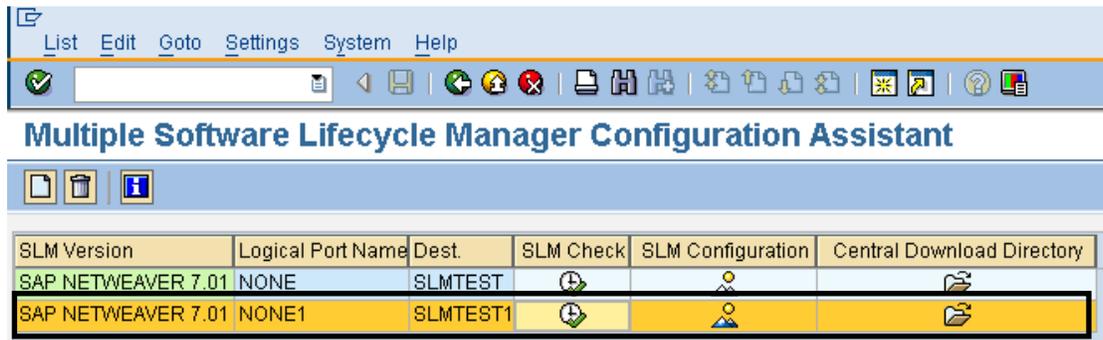


SLM Version: SLM service version that I'll establish a connection.

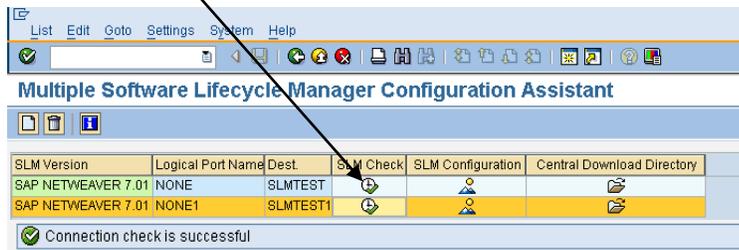
Logical Port: Input a name to identify the logical port.

Create a Customizing Request to assign this configuration.

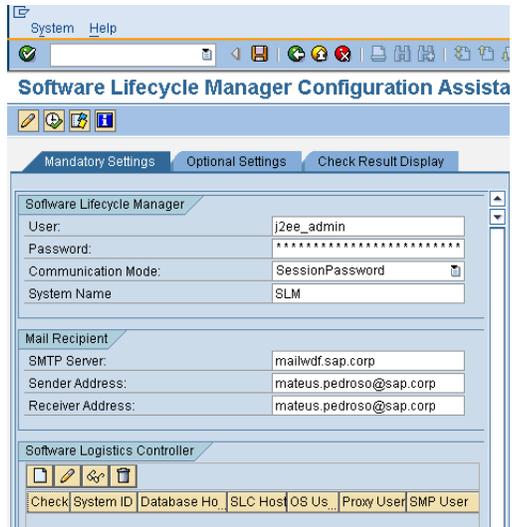
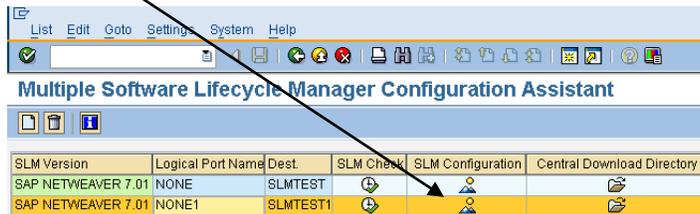




Execute a SLM Check



Click SLM Configuration



User and password to connect in the SLM

Communication Mode.

The component SOFTWARE LIFECYCLE 7.01 only supports an HTTPS connection. If the SLM check fails, check whether the HTTPS connection for the SOFTWARE LIFECYCLE 7.01 is set up correctly, by double-clicking the connection name and choosing *Connection Test*. For the component SOFTWARE LIFECYCLE as of release 7.0<x>, choose *SessionPassword* in the *Communication Mode* field.

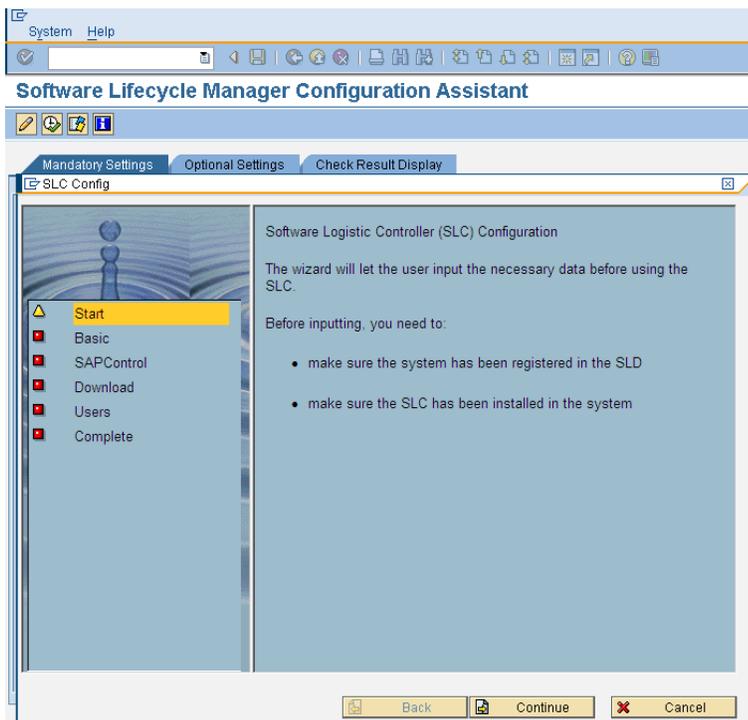
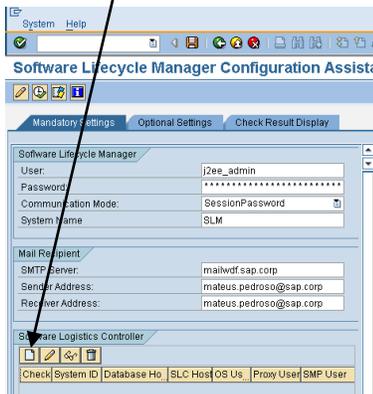
SLM System Name.

You need to fill in the system component name of your SLM, which is registered in SMSY. If the SLM is installed on a dual stack system, its ABAP stack part needs to be configured in SMSY as well.

SMTP Server: SMTP server that you'll use to receive emails of SLM service.

Sender and Receiver: The source and destination email address that will send and receive the emails of SMTP.

Click Create. You must execute this configuration for the managed and managing systems.



System Help

Software Lifecycle Manager Configuration Assistant

Mandatory Settings Optional Settings Check Result Display

SLC Config

SID: System ID
Database Host: the Host of the Database
SLC Host: the Host of the SLC
User: OS user, it must be the <SID>adm user

System Information

SID:	xTP
Database Host:	slmtest
SLC Host:	slmtest

OS User

User:	xtpadm
Password:	*****

Start
Basic
SAPControl
Download
Users
Complete

Back Continue Cancel

System Help

Software Lifecycle Manager Configuration Assistant

Mandatory Settings Optional Settings Check Result Display

SLC Config

The HTTP and HTTPS ports are displayed as default. You don't need to change it, provided that the default ones are correct. You needn't change the \$\$ in the port string; SLM can automatically identify the system number and replace \$\$ with it.

You can choose to use HTTPS port or HTTP port by selecting or deselecting the checkbox "Use HTTPS".

SAP Control

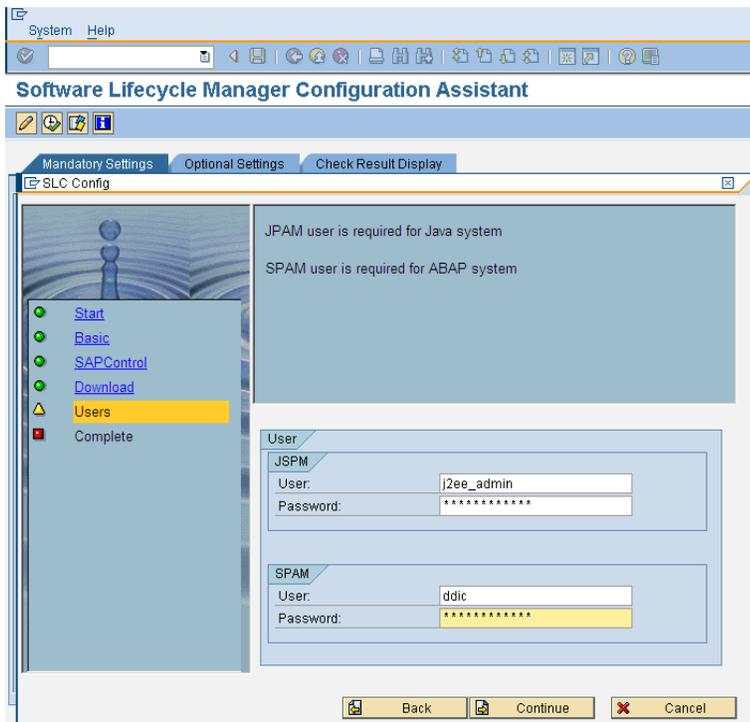
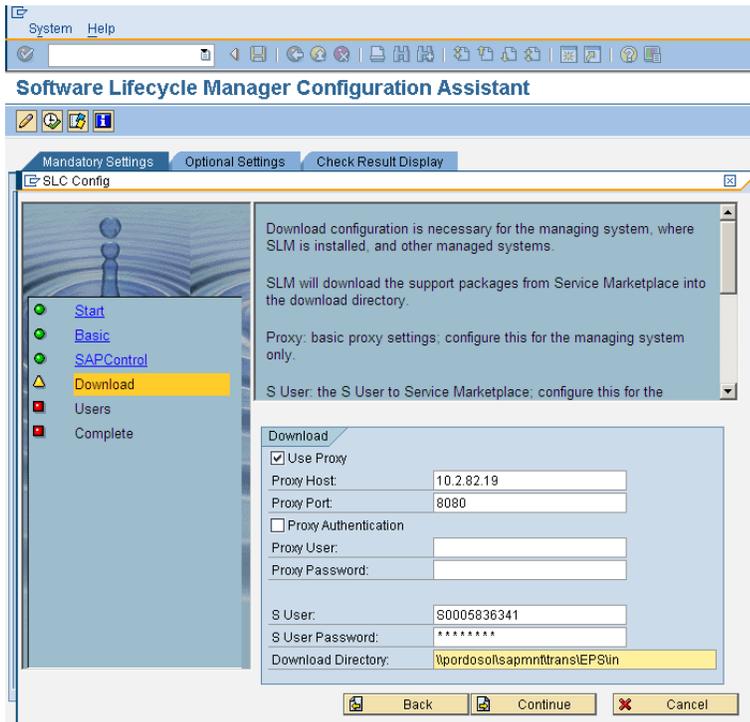
Use HTTPS

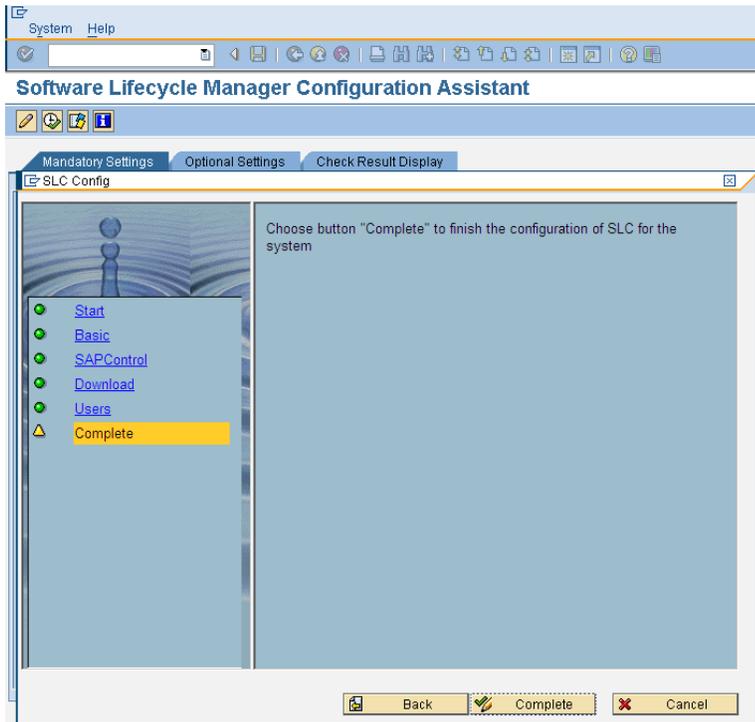
HTTP Port:	5\$\$13
HTTPS Port:	5\$\$14

Start
Basic
SAPControl
Download
Users
Complete

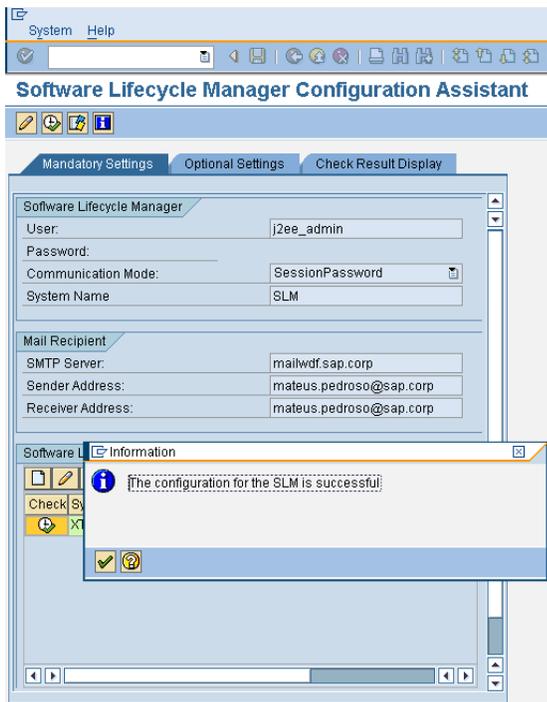
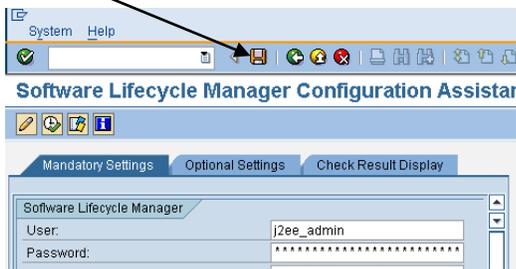
Back Continue Cancel

If you want use HTTPS, you must configure according with note 1036107- Ensuring SAP MC communicates with HTTPS

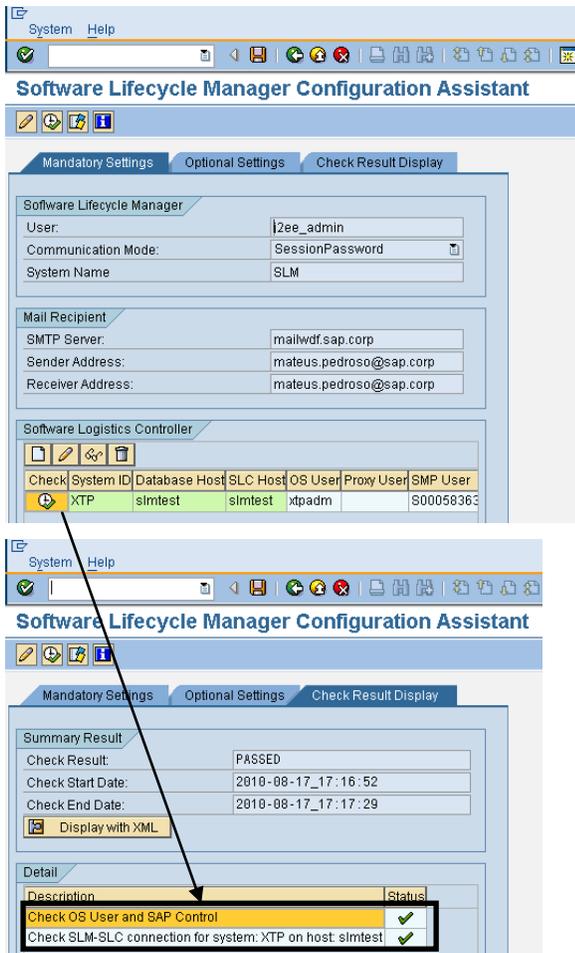




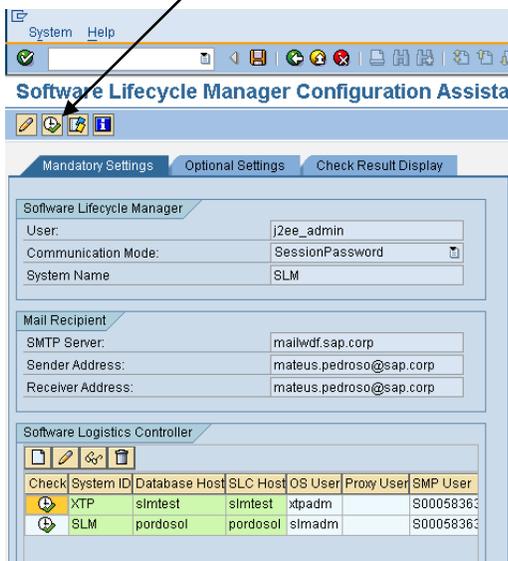
Save

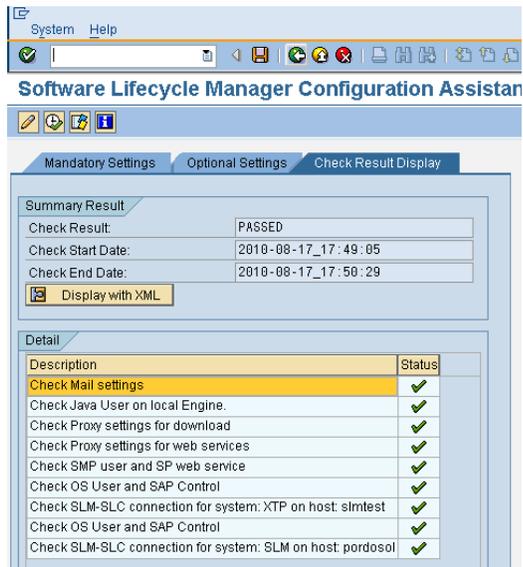
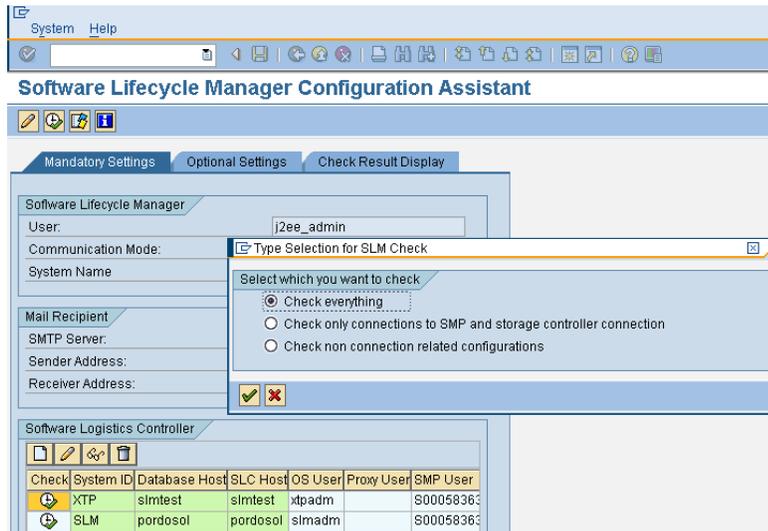


Checking the Managed system



Checking all SLM configurations





9.1 Activate the BC-SETS for Maintenance Optimizer and SLM

Perform the basic Customizing for SAP Solution Manager before making Maintenance Optimizer-relevant customizing settings. For each update of SAP Solution Manager to a new support package or enhancement package, activate any newly-delivered BC Sets.

Run the SAP Solution Manager Basic Configuration Assistant, with transaction code **SOLMAN_SETUP**. You can check whether the Maintenance-Optimizer-relevant BC Sets are activated. For more information about the basic configuration of SAP Solution Manager, see SAP Help Portal at <http://help.sap.com> *SAP Solution Manager SAP Enhancement Package 1 for SAP Solution Manager 7.0* <language> *Basic Settings SAP Solution Manager Basic Configuration*.

SAP Solution Manager: Basic Configuration

Technical System: SLM-001 | Username: SOLMAN_ADMIN | System Type: ABAP

1 Project | 2 Import Note | 3 Installation Check | 4 User Data | 5 Landscape Data | 6 Manual Configuration | 7 Automatic Configuration | 8 Complete

Change | Back | Continue | Save | Execute All | Execute Selected | Refresh

Help

SAP Solution Manager performs the following activities in automatic configuration. You can exclude activities from automatic performance.

- Set the *Postponed* flag in the *Execution Status* column, for activities which the system should not yet perform. The system only automatically configures entries with the execution status *Execute*.
- To start automatic configuration, choose *Execute ALL*.
Note: Automatic configuration can take a few minutes. As the activities run in a background process, you must choose *Refresh* to update the logs. The dynamically displayed asynchronous execution status table shows the progress of the background process.
- After configuration, you can see messages and other detailed information for a selected automatic activity, in the *Log screen area*.
- If you automatically configure again, you can specify in a dialog window whether the system should repeat activities that have already been performed.
- For more information about performing activities manually, click on *Display* in the *IMG Documentation* column.
- To perform activities manually, set the *Execution Status* to *Manual*, go to the activity via the *Navigation* column, and edit it.

Note: The transaction can take a few minutes.

Automatic Activities

Status	Refresh	Description	Navigation	Execution Status	IMG Documentation
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Activate BC Sets	Start Transaction	Execute	Display
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Activate Piece Lists	Start Transaction	Execute	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Activate Services	Start Transaction	Execute	Display
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Diagnostics Configuration	Open URL	Execute	Display
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Prepare Business Partner Change	Start Transaction	Execute	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Business Partner for SAP Support		Execute	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generate Business Partner Screen		Execute	Display
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Schedule Background Jobs	Start Transaction	Execute	Display
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Schedule Standard Jobs	Start Transaction	Execute	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Connection to SAP	Start Transaction	Execute	Display

Selected Activity: Activate BC Sets

Log with 64 Messages

Status	Message	Date	Time	User	Details
<input checked="" type="checkbox"/>	BC Set SOLMAN40_MOPZ_SP18 already activated	12.05.2010	13:57:58	SOLMAN...	
<input checked="" type="checkbox"/>	BC Set SOLMAN40_MOPZ_001 already activated			SOLMAN...	
<input checked="" type="checkbox"/>	BC Set SOLMAN40_SDESK_BASICFUNC_SP18 already activated			SOLMAN...	
<input checked="" type="checkbox"/>	BC Set SOLMAN40_CHARM_PROXYFACT_001 already activated			SOLMAN...	
<input checked="" type="checkbox"/>	BC Set SOLMAN40_MOPZ_TTV_P_SLMIO_000 already activated			SOLMAN...	

9.2 Authorization Configuration for Maintenance Optimizer

- Log in to your managing SAP Solution Manager system, to assign the authorizations for the Maintenance Optimizer.
- Configure the following roles for Maintenance Optimizer system users: SAP_MAINT_OPT_ADMIN – see SAP Note 1032322 SAP_MAINT_OPT_ADD – see SAP Note 1124301
- Specify the systems to be maintained, and the activity, via the Maintenance Optimizer, in the authorization object D_MOPZSYSI in role SAP_MAINT_OPT_ADMIN.

Note

If your SAP Solution Manager managing system is a UNIX/Linux one, you need to set the parameter “install/umask” to 022. With this, the exported stack XMLs to EPS inbox will have the permission of “-rw-r--r--”, which can be read by any users used by logistic tools. For more information, refer to SAP Note 24869 (Files are created with incorrect permissions).

Users Edit Goto Information Environment System Help

Display User

User: SOLMAN_ADMIN
Last Changed On: SOLMAN_ADMIN | 17.08.2010 | 15:14:24 | Status: Saved

Address Logon data SNC Defaults Parameters Roles Profiles

Role Assignments

St.	Role	Type	V.	Valid	Name
<input checked="" type="checkbox"/>	SAP_MAINT_OPT_ADMIN			17.03.12	Role for Maintenance Optimizer - Administrator

9.3 S-User Assignment for Maintenance Optimizer

- Log in to your managing SAP Solution Manager system and enter the transaction code **AISUSER**.
- Assign s-users to the Maintenance Optimizer system users, to access SAP Service Marketplace.

More information about multiple customer numbers: SAP Note 1151450

User	Contact Person
I822937	5836341
I823057	5836341
PAL_MBP27417	5836341
SAPSUPPORT	5836341
SOLMAN_ADMIN	5836341

9.4 Common Settings for Managing and Managed Systems

In addition to the above configuration, the SLC and JSPM need to be configured on the managing SLM system. For the managed systems, you have to check whether the Web service *sapcontrol* is installed with SAP Netweaver. Only then can it be managed by the SLM system. The Web service *sapcontrol* is available as of SAP Netweaver 7.00. It is therefore always available for the managing system, since the managing system with SLM is always based on SAP Netweaver 7.00 or a higher release.

The SLC needs to be configured on each managed system. If the managed system contains a Java stack, JSPM needs to be configured; if the managed system contains an ABAP stack, SPAM/SAINT needs to be configured.

10. Configuration for Transport Directory

Both SPAM and JSPM need to access the transport directory, to access archive files. In the single system update with the maintenance optimizer, SLM downloads the package archives to a central download directory. If the download directory differs from the transport directory, the archives will be automatically copied to the transport directory of the managed system, by SLM and SLC.

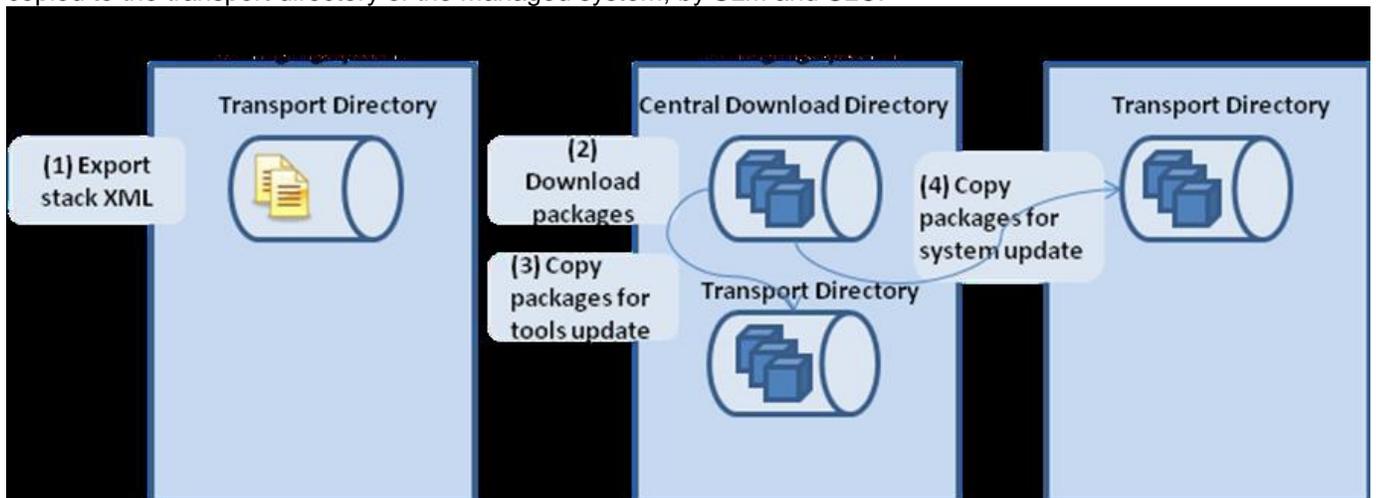


Figure 12: The transport directory and the central download directory

Note

You can check the transport directory setting via transaction /nrz11. Input the parameter name DIR_EPS_ROOT, the transport directory value will be displayed. You need to ensure that users on involved systems have the correct authorizations.

System	OS Platform	User	Directory	Access
SLM Managing System	Linux/UNIX	<SID>adm	CDD	write
	Windows NT	SAPService<SID>	CDD	write
	Linux/UNIX	<SID>adm	TD	write
	Windows NT	SAPService<SID>	TD	write
Managed System	Linux/UNIX	<SID>adm	CDD	read
	Windows NT	SAPService<SID>	CDD	read
	Linux/UNIX	<SID>adm	TD	write
	Windows NT	SAPService<SID>	TD	write

*CDD - Central Download Directory * TD – Transport Directory

You need to perform further configuration for user authorizations in the operating system, in a **Microsoft Windows NT environment**:

Note

<SID> below is the system ID of the managed system.

...

1. Log in to the host of the managed system; make sure the OS user SAPService<SID> is not in group Administrator, otherwise sapcontrol *OSExecute* will not work.
2. Log in to the host of the managed system; make sure the OS users SAPService<SID> and <SID>adm have full permissions for the shared folder /usr/sap.

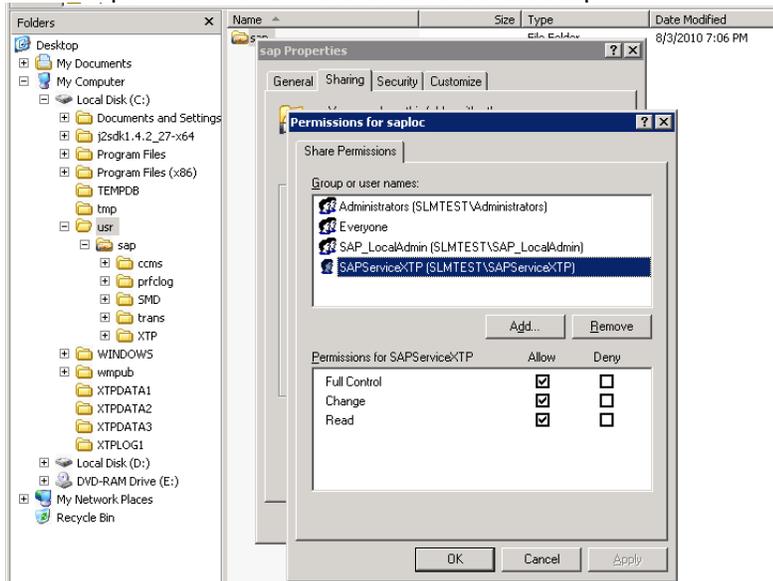


Figure 13: Authority configuration for Microsoft Windows NT

3. Log in to the host of the transport directory; create the OS user SAPService<SID>; set the same password as for the OS user SAPService<SID> on the host of the managed system; add this OS user to the group SAP_LocalAdmin. The managed system uses the equivalent OS user on the central host to access the transport directory.

More information: SAP Note 556734 (FAQ Transport: Setup and further information; and related notes)

4. You have to perform further configuration if the operating system of the transport directory host is **Linux/UNIX** and the managed system host is **Microsoft Windows NT**. You have to mount the transport directory with the same path in the hosts of the managed system as in the central host.

1. On the transport directory host, the transport directory path /usr/sap/trans/EPS/in needs to be shared with a path, e.g., \\centralhost\usr.sap\trans\EPS\in.

2. On the host of the managed system, the instance profile needs to be edited (e.g. C:/usr/sap/<SID>/SYS/profile/<SID>_DVEBMGS<instance number>_<HOST>), so that the parameter DIR_EPS_ROOT is the same as the shared path on the transport directory host, e.g., \\centralhost\usr.sap\trans\EPS.

Note

In this case, mounting the network drive via *Windows Explorer Tools Map Network Drive* does not work, as the shared directory is mounted with the current session user (e.g. <SID>adm) and not with the SAPService<SID> user which is used for accessing the shared directory.

11. Creating the MOPZ transaction

Transaction DSWP

Create New Maintenance Transaction =>

The image displays three sequential screenshots of the SAP Maintenance Optimizer Transaction 000000070 interface. Each screenshot shows a progress bar with five steps: 1. Plan Maintenance, 2. Select Files, 3. Download Files, 4. Implement, and 5. End Maintenance. The user is identified as S-User | S0005836341.

Screenshot 1: Plan Maintenance
 The 'Enter Basic Data' section is active. It includes fields for Solution (SAP Solution), Product Version (SAP SOLUTION MANAGER...), and Product System. The 'XTP' checkbox is checked. Buttons for Back, Continue, Save, Close, and Withdraw are visible.

Screenshot 2: Select Files
 The 'Choose File Selection Mode' section is active. It offers two options: 'Calculate Files Automatically - Recommended' (selected) and 'Select Files Manually'. A description states: 'Maintenance Optimizer will check your system landscape, calculate all the needed files, and confirm them in download basket.'

Screenshot 3: Update Options
 The 'Update Options' section is active. It prompts the user to 'Select update option for SAP SOLUTION MANAGER 7.0 EHP 1.' with a radio button selected for 'Maintenance'.

Maintenance Optimizer Transaction 000000070 | S-User: S0005836341

Priority: 3: Medium | Description: New Maintenance Optimizer Transaction

Plan Maintenance | Select Files | **2.1 Choose Stack** | 2.2 Confirm Target | 2.3 Select OS/DB-Dependent Files | 2.4 Select Stack-Independent Files | 2.5 Select Stack-Dependent Files

Back | Continue | Save | Close | Withdraw

Operations | Systems | Log (6) | Documentation

Select Target

Target stack: 24 (06/2010) | Stack Details

Maintenance Optimizer Transaction 000000070 | S-User: S0005836341

Priority: 3: Medium | Description: New Maintenance Optimizer Transaction

Plan Maintenance | Select Files | Choose Stack | **2.2 Confirm Target** | 2.3 Select OS/DB-Dependent Files | 2.4 Select Stack-Independent Files | 2.5 Select Stack-Dependent Files

Back | Continue | Save | Close | Withdraw

Operations | Systems | Log (6) | Documentation

Confirm Major Target

Updating the product systems selected in step 1 "Plan Maintenance" may affect these technical systems. Check the target constellation for each technical system affected and confirm by continuing to the next step.

Technical Systems

Technical System			Product System			
System Name	System Type	Database Server	System Name	Product Version	Stack Level	Layer
XTP	JAVA+ABAP	slintest	XTP	SAP SOLUTION MANAGER 7.0 EHP 1	24 (06/2010)	Standalone
				SAP EHP1 FOR SAP NETWEAVER 7.0	06 (02/2010)	NetWeaver

This entry will be changed This entry will be created

Maintenance Optimizer Transaction 000000070 | S-User: S0005836341

Priority: 3: Medium | Description: New Maintenance Optimizer Transaction

Plan Maintenance | Select Files | Choose Stack | Confirm Target | **2.3 Select OS/DB-Dependent Files** | 2.4 Select Stack-Independent Files | 2.5 Select Stack-Dependent Files

Back | Continue | Save | Close | Withdraw

Operations | Systems | Log (6) | Documentation

Select OS/DB-Dependent Files

You have selected 5 file(s).

OS/DB-Dependent Files

Expand All | Collapse All | Select All | Deselect All

File Name	Version	Description
<input type="checkbox"/> AXI 64bit		
<input type="checkbox"/> HP-LUX on IA64 64bit		
<input type="checkbox"/> HP-LUX on PA-RISC 64bit		
<input type="checkbox"/> Linux on IA32 32bit		
<input type="checkbox"/> Linux on IA64 64bit		
<input type="checkbox"/> Linux on Power 64bit		
<input type="checkbox"/> Linux on x86_64 64bit		
<input type="checkbox"/> Linux on zSeries 64bit		
<input type="checkbox"/> OS/400		
<input type="checkbox"/> Solaris on SPARC 64bit		
<input type="checkbox"/> Solaris on x64_64 64bit		
<input type="checkbox"/> Windows Server on IA32 32bit		
<input type="checkbox"/> Windows Server on IA64 64bit		
<input type="checkbox"/> Windows Server on x64 64bit		
<input checked="" type="checkbox"/> #Database independent		
<input type="checkbox"/> DB2 UDB		
<input type="checkbox"/> DB2/390		
<input type="checkbox"/> DB2/400		
<input checked="" type="checkbox"/> MIS SQL SERVER		
<input type="checkbox"/> MaxDB		
<input type="checkbox"/> ORACLE		
<input checked="" type="checkbox"/> igsexe_16-20001388.sar	SAP IGS 7.00	Installation for SAP IGS integrated in SAP Kernel
<input type="checkbox"/> z/OS 64bit		

Maintenance Optimizer Transaction 000000070 | S-User: S0005836341

Priority: 3: Medium | Description: New Maintenance Optimizer Transaction

1 Plan Maintenance | 2 Select Files | 2.1 Choose Stack | 2.2 Confirm Target | 2.3 Select OS/DB-Dependent Files | **2.4 Select Stack-Independent Files** | 2.5 Select Stack-Dependent Files

Back Continue Save Close Withdraw

Operations Systems Log (6) Documentation

Select Stack-Independent Files

Note: Stack-independent files are not deployed automatically.
You have selected 2 file(s).

Select Stack-Independent Files

Expand All Collapse All Select All Deselect All Add Java Patches

File Name	Version	Description
<input checked="" type="checkbox"/> SAP SPAM/SAINT UPDATE		
<input checked="" type="checkbox"/> KD70139.SAR	SPAM/SAINT UPDATE 701	SPAM/SAINT Update - Version 701/0039
<input checked="" type="checkbox"/> SL CONTROLLER		
<input checked="" type="checkbox"/> LUP_26-20002695.SAR	SL CONTROLLER 7.00	Patch for SL CONTROLLER 7.00 SP

Maintenance Optimizer Transaction 000000070 | S-User: S0005836341

Priority: 3: Medium | Description: New Maintenance Optimizer Transaction

1 Plan Maintenance | 2 Select Files | 2.1 Choose Stack | 2.2 Confirm Target | 2.3 Select OS/DB-Dependent Files | 2.4 Select Stack-Independent Files | **2.5 Select Stack-Dependent Files**

Back Continue Save Close Withdraw

Operations Systems Log (6) Documentation

Select Stack-Dependent Files

Note: It is not recommended to deselect any files.
You have selected 80 file(s).

Select Stack-Dependent Files

Expand All Collapse All Select All Deselect All Add Java Patches

File Name	Version	Description
<input checked="" type="checkbox"/> ABAP		
<input checked="" type="checkbox"/> BI CONT		
<input checked="" type="checkbox"/> CPRX/PRM		
<input checked="" type="checkbox"/> PL_BASIS		

Maintenance Optimizer Transaction 000000070 | S-User: S0005836341

Priority: 3: Medium | Description: New Maintenance Optimizer Transaction

1 Plan Maintenance | 2 Select Files | 2.1 Choose Stack | 2.2 Confirm Target | 2.3 Select OS/DB-Dependent Files | 2.4 Select Stack-Independent Files | 2.5 Select Stack-Dependent Files

Back Continue Save Close Withdraw

Operations Systems Log (6) Documentation

Select Download Tool

Select the tool to download files.

Software Lifecycle Manager
The selected files will be downloaded directly via Software Lifecycle Manager(SLM).

Download Basket
The selected files will be put into your download basket.

SLM working below

Priority: 3: Medium | Description: New Maintenance Optimizer Transaction

1 Plan Maintenance | 2 Select Files | **3 Download Files** | 4 Implement | 5 End Maintenance

Back Continue Save Close Withdraw

Operations Systems Log (6) Stack Files Documentation

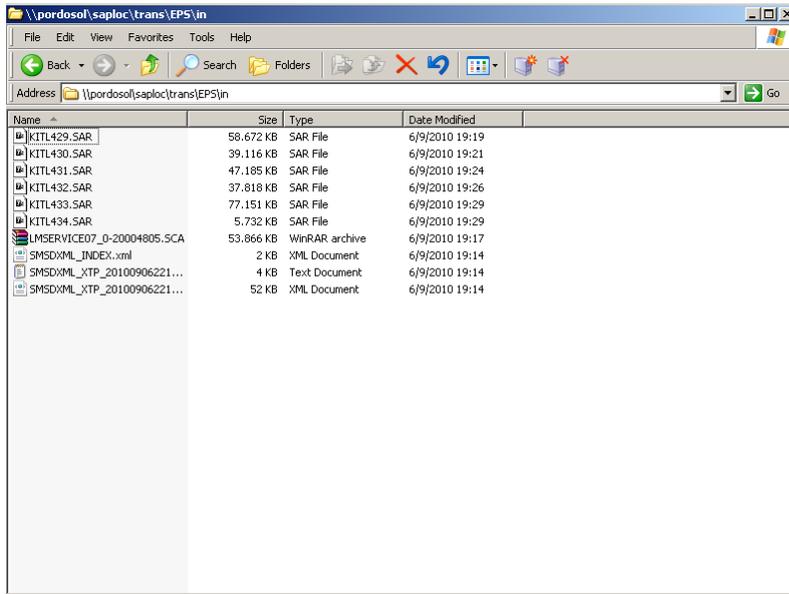
Download with Software Lifecycle Manager

Download Status

Notes for single system update

Technical System	Database Host	Phase	Status	Progress	Message
SLM	poridosol	download	RUNNING	5%	The download is running.

Back Continue Save Close Withdraw



12. Relevant Components for issues

SV-SMG-MAI

- Customizing Settings for Maintenance Optimizer
- Authorization Configuration for Maintenance Optimizer
- S-User Assignment for Maintenance Optimizer

BC-CCM-SLD/SV-SMG-SYS

- Registration of systems in SLD and SMSY

BC-UPG-SLM

- SLM Configuration => /n/tmwflow/mopzcfg
- Installation of Software Lifecycle Manager

BC-UPG-SLC

- Software Logistics Controller – SLC

BC-UPG-OCS-SPJ

- Java Support Package Manager – JSPM

BC-UPG-OCS-SPA

- Support Package Manager – SPAM

BC-SEC-SSL

- Setting up SAP Cryptographic Library for SLM Secure Connection

If you have a problem in the generation of the SSL certificate with SAP Netweaver Administrator, send a message to the component **BC-JAS-SEC**.

For issues that are not mentioned here, you can send a message to the component **SV-SMG-MAI** or to the component of relevant SAP Notes.

13. Relevant SAP Notes

SAP Note	Description
Maintenance Optimizer: Notes for Single System Update	Collective SAP Note for auto-download and single system update scenarios.
SLM/SLC Configuration Trouble Shooting Guide	SAP Note for trouble shooting in SLM configuration.
SLM 7.0x - Troubleshooting note	SAP Note for trouble shooting in SLM execution, including the manual actions list updated frequently.
Maintenance Optimizer: Notes for Software Lifecycle Manager	SAP Note for configuring SLM for the use with the maintenance optimizer
SUSE LINUX Enterprise Server 10: Installation notes SWLIFECYCL 7.0x fixes Supported components for update by SLM 7.0x SLM 700 - Manual clean up	SAP Note regarding the incorrect encryption algorithm for the sapcontrol Web service

For more information, visit the [Application Management homepage](#)

14. Credits

This guide was based on the SLM Official Documentation.

SLM Official Documentation found in

<http://service.sap.com/mopz> => [How-to guide: How to configure Software Lifecycle Management \(SLM\) Service \(SPS22\)](#)

Copyright

© Copyright 2011 SAP AG. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

Microsoft, Windows, Excel, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.

IBM, DB2, DB2 Universal Database, System i, System i5, System p, System p5, System x, System z, System z10, System z9, z10, z9, iSeries, pSeries, xSeries, zSeries, eServer, z/VM, z/OS, i5/OS, S/390, OS/390, OS/400, AS/400, S/390 Parallel Enterprise Server, PowerVM, Power Architecture, POWER6+, POWER6, POWER5+, POWER5, POWER, OpenPower, PowerPC, BatchPipes, BladeCenter, System Storage, GPFS, HACMP, RETAIN, DB2 Connect, RACF, Redbooks, OS/2, Parallel Sysplex, MVS/ESA, AIX, Intelligent Miner, WebSphere, Netfinity, Tivoli and Informix are trademarks or registered trademarks of IBM Corporation.

Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.

Adobe, the Adobe logo, Acrobat, PostScript, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Oracle is a registered trademark of Oracle Corporation.

UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.

HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

Java is a registered trademark of Sun Microsystems, Inc.

JavaScript is a registered trademark of Sun Microsystems, Inc., used under license for technology invented and implemented by Netscape.

SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP Business ByDesign, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Business Objects S.A. in the United States and in other countries. Business Objects is an SAP company.

All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

These materials are subject to change without notice. These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.