# 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 <u>Application Management homepage</u>

# 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 <u>http://service.sap.com/mopz</u> => 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)	
8. Software Logistics Controller – SLC	
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	
10. Configuration for Transport Directory	
11. Creating the MOPZ transaction	
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:





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 Javabased 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

Er Menu System Heln	
System Landsoon Directory 2001	dministration
System Landscape Directory. Locar	Administration
Global Settings	
Transport Information	Other Settings
Automatic RFC Destination	Schedule background job?
Explicit RFC Destination	720 Minutes
SLD Bridge: Gateway information	
Host pordosol	
Service sapgw00	
Data Collection Programs	
Active Seque Program Name	lest Display lest C
SLD BCSYS	
SLD CLIENT	
_SLD_DBSYS	
SLD_GWSRV	
SLD_INSTPRD	
_SLD_INSTSP	
Sector Se	

### Confirm with yes



### Result

⊑ List	Edit Goto System	Help
0		
SLD	DS Start Prog	ram
SLD DS	Start Program	
0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0	slatest_XTP_00 slatest_XTP_00	: Execute program: _SLD_M666RV : Execute program: _SLD_LIVECACHE : Execute program: _SLD_IPSERV : Execute program: _SLD_INSTSC : Execute program: _SLD_INSTSC : Execute program: _SLD_OWSRV : Execute program: _SLD_OWSRV : Execute program: _SLD_OWSRVS : Execute program: _SLD_OMSRVS : Execute program: _SLD_OMSRVS : Execute program: _SLD_OMSRVS : Execute program: _SLD_APPL_SERV : Collection of SLD_data finished : Data collected successfully : RFC data prepared : Used RFC destination: SLD_UC : RFC call successful : Existing periodic jobs removed. Number: 1 : Program scheduled: 20100805 085500

XTP ABAP Stack registered with success

SAP NetWeaver" System Landscape Directory				
Home Administration Log Off Help About				
View and Define Systems and Servers				
Technical Systems				Ξ
Technical System Type: Web AS ABAP Filter:	Go			
New Technical System Remove Export Refresh				
	Host	Version	Last Update	
Pl1 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 simtest	simtest	701	08/04/2010 20:44	
XXX on alabama	alabama	700	07/26/2010 02:54	
Row 1 of 5				
ABAP Technical System Details for: XTP on slmtest				
General Database Clients Message Server Application Servers	Internet Transaction Servers Installed Products	Business Systems Landscapes	\$	< > <b>C</b>
Save				
System Name: XTP				
System Home: sintest				
Installation Number: 0020190117	Change			
Release: 701				
Description:				
Administration Contact:				
TMS Domain: DOMAIN_XTP				
TMS Transport Group Name: GROUP_XTP				
Web AS Java: <u>XTP on simtest</u>				

### **Registering Java Stack**

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

# Click here

ect View Tools Hel			-
: 🗽 🗶 🐵			
bal Configuration	Runtime Properties Additional Info		
Cluster	System Landscape Directory: HTTP Parameter		
	HTTP connection parameters specified on this page are solely	used by the data supplier service to send information about this J2EE system to your System Landscape Direc	tory. T
- All P Provider	access your System Landscape Directory you need to map the	especified user to security role 'DataSupplierLD'.	
- Dava Mail Client			
- 🌳 JCo RFC Provider			
- 📯 JDBC Connector			
- 😤 JMS Connector			
- 😤 JMS Provider			
- 😪 JMX Adapter			
- * JMX Notification			
- Storage			
- 🔆 Leak Detector			
- 📯 Licensing Adapter			
– 😤 Locking Adapter		HTTP Connection for SLD Data Supplier	
- 😪 Log Configurator			
- Set Log Viewer		Hust. politiosol	
		Port: 50000	
- P Migration Service		User: SLDDSUSER	
- 📯 Monitoring		Password	
– 📯 P4 Provider 🛛 🚃			
- 😤 PDF Manipulation N		Use HTTPS?	
- 😤 Performance Tracir		Trust Store:	
PMI Pamoto Object Cor		Carp Deset Defeat	
- 2 Runtime Info Provid		Save Reset Renesh Delete	
- 🛠 SAML			
- 📯 SDIC Service			
– 😪 Secure Storage 🖉			
- 😤 Security Provider			
Session Failover			
Shell Administration			
A COL Data Supplier			

### Select yes



### And confirm



Check the results in the SLD.

# XTP JAVA Stack registered with success

-				
-				
Save				

Registering the system in SMSY of SLM (Managing system)

Just run LANDSCAPE\_FETCH job in SM37. For more informations check note <u>1148028 - Setup SLD in the</u> scope of Solution Manager 7.0

C	
Product System Edit Goto Logs Environment Utilities	System Help
Product System: XTP - Display - SAP S	olution Manager
🗢 🔿 🌾 🖽 📽 🦻 🎾 🚭 🖪 🎘 Assignment to L	ogical Components
Landscape Components	Product System XTP
	Product Version SAP SOLUTION MANAGER 7.0 EHP 1
Landscape Components Description	Header Data Product Instance Selection System Data in SAP Support Portal Other Attributes
▷ Server         ▷ Databases         Product Systems           ▷ Product Systems         Product Systems         Product Systems           ▷ SAP ERP         SAP ERP         SAP ERP           ▷ SAP ERP ENHANCE PACKAGE         SAP ERP ENHANC           ▷ SAP NETWEAVER         SAP NETWEAVER           ▷ SAP NETWEAVER CE         SAP NETWEAVER PI           ▷ SAP SCM         SAP NETWEAVER SAP NETWEAVER           ▷ SAP SCM         SAP SOLUTION MANAGER	Description         Data Source         TMS/RFC         Last Changed On/By         16.08.2010         23:01:33         SOLMAN_ADMIN         Installation Number         0         Production         Al         State
Control Solution Manager ABAP Stack     Solution Manager JAVA Stack     Technical Systems	Active Product Versions  Product Version  SAP_SOLUTION MANAGER 7.9 EHP 1

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

C Landscape Components Edit Goto Logs Environment U	Jtilities System Help			
V 🗉 🖉 😧 😒 🗎 H	∰ \$D\$D£D  <mark></mark> ≋	2 0		Le la
Logical Component: Z_SOLMAN_COMP	- Display - SAP S	Solution Manager		
🗲 🔿   🍞 🛄 👪 📑 Select Object   🥎 🚭				
Landscape Components	Logical Component	Z_SOLMAN_COMP	Active	
System Groups and Logical Components	Product/Prod. Instance	SAP SOLUTION MANAGER [Soluti	on Manager ABAP Stack]	
3 ▽ ☆ 間 🔛	Name			
System Groups and Logi Description	Delivered by SAP			
SAP NETWEAVER / SAP NetWeaver Applicati     SAP NETWEAVER / SAP Netweaver BW	Component Group		mponent Groups	
SAP NETWEAVER (SAP NetWeaver Compos	Last Changed On/By	18.07.2010 15:59:36 SOLMAN	ADMIN	
<ul> <li>SAP NETWEAVER &amp; SAP NetWeaver Mobile</li> <li>SAP NETWEAVER F SAP NetWeaver Process</li> </ul>				
D SAP NW ENTERPR SAP NETWEAVER ENTE	Current System Assi	gnments		
D SAP NWIDENTTY I SAP Netweaver Identity D SAP OGSD SAP OGSD (Oil & Gas S				1
SAP PAYMENT ENG SAP Payment Engine	ia gu Shipmi	ent Routes	Namespaces Related Log. Comp.	
D SAP POS SAP POS	System Assi	gnments		
SAP POS SERVICE: SAP POS SERVICES SAP PRICE OPT ECSAP Price Optimization f	Product Version	Development System	Quality Assurance System Production Syste	m Demo System Training System SAP Referenc S
<ul> <li>SAP PRICE OF LECEAP Fille Optimization</li> <li>SAP PROCESS COLSAP BusinessObjects Pr</li> </ul>	SAP SOLUTION MAI	NAGER 7.0 EHP 1	XTP:001	
SAP PROCESS SCI SAP Solution Manager Pr SAP PROMOMERC SAP PROMOTION MERC				
▷ SAP PROMOTION № SAP Promotion				
SAP PUBLIC BUDG SAP Public Budget SAP PUBLIC SECT(SAP PUBLIC SECTOR C				
<ul> <li>SAP QUALITY CENT SAP QUALITYCENTER B</li> </ul>				
SAP R/3     SAP R/3     SAP R/3     SAP R/3     SAP R/3     SAP R/3				
D SAP REACH COMPLIAN REACH COMPLIAN				
SAP REAL ESTATE SAP Real Estate country     SAP REM SAP vann Resource and				
D SAP SCM SAP SCM				
SAP SCM 5.0 ADD-(SAP SCM 5.0 ADD-ON Tr SAP SCM ENHANCI SAP SCM Enhance Pack				
D SAP SEM SAP Strategic Enterprise				
SAP SNC SAP Supply Network Coll     SAP SNC ENHANCI SAP SNC Enhance Pack				
SAP SILCENHANCI SAP SILCENTIALS PACK				
Solution Manage				
Z SOLMAN				
C				
Landscape Components Edit Goto Logs Environment	Utilities System Help			
	Colution II			
Display system group for solution "SAP	Solution			
	า			
Landscape Components	Leading Role of the Soluti	on Production System	E	
System Groups and Logical Components				
	Logical Com	ponent System Roles Correct	System State Component	
System Groups and Logi Description	Complete System Data	a Replication Related Log. Comp.	dVanian E	
₽ Project Landscapes Solution Landscapes -	SAP SOLUTION MANAGE	Produ R ISolution Manager ABAP Stack/ SAP S	OLUTION MANAGER 7 0 EHP 1 XTP-001	DARIEL CONTRACTOR
ERP 6 EHP4	C. C. OCLOHON MARKOL	reperation managements a coord over o		
New Solution NW 7.1 CE Alaska				
SAP Solution				

# 5. Updating SLD

You must update SLD according with note 669669. Checking the SLD CIM and CR data. Go to <u>http://<SLD Host>:5xx00/sld/</u> => <u>Administration</u> => <u>Details</u> => Data. Where *<xx>* is the instance number of the J2EE Engine



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

⊡⊂ Goto Edit System Help				
	<ul> <li>↓ □   ♀ ♀ ♀ □ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓</li></ul>			
SAP License Admini	stration			
🛐 🛃 🔤 🖉 🚹 Online	Documentation New Licenses			
Current Settings				
Active Hardware Key	Z1928918575			
Installation Number	INITIAL			
License Expires On	19.08.2010			
System Number	System No. Empty			
Installed Licenses				
Licenses in the Database				
State SID Hardware Key V	alidity Inst.No. System No. Key 🎹			
XTP TEMPLICENSE 1	9.08.2010 INITIAL System No. Empty ULS8FAK2F0			

Goto Edit System Help				
Ø 1	4 🛛   😋 😧 🔇	1866	8   <b>8</b> 10	AL 82   🐹 🗾   🔞
SAP License Admini	stration # Dig	itally-Sig	gned Lic	ense Keys
🛐   🚜 📧   💦   🚹 Online	Documentation	Id Licenses		
Current Settings				
Active Hardware Key	Z1928918575			
Installation Number	INITIAL			
License Expiration Date	19.08.2010			
System Number	INITIAL_SYSTEM_ID	Х		
Installed Licenses				
Licenses in the Database				
Stat_SID Hardware Key Sw	are Prod	Valid From	Valid To	Type Inst. No.
8 10 A 8 🖧	Install			

Select the Installation License and click open

The multiple.c	<u></u>		
File <u>n</u> ame:	XTP_multiple.txt	8	<u>O</u> pen
Files of type:	(*.txt)	8	Cancel

Current Settings					
Active Hardware Key	Z1928918575				
Installation Number	INITIAL				
License Expiration Date	19.08.2010				
System Number	INITIAL_SYSTEM_I	DX			
					1
Installed Licenses					
Licenses in the Database					
Stat SID Hardware Key Sw	are Prod	Valid From	Valid To	Type Inst. No.	
				<b>▲</b>	
🔁 🖸 🗘 🕰 🚅	Install				
Remote Hardware Key	sful installation of perr	manent licens	e kev		X /
Determined HW			,		
Host Messages					
2 SAP licen	se key(s) successfully	/ installed.			
<u>×u vu s</u>					
Request License Key					
You can request a lic					
http://service.sap.con					
about the license key 🖌 🗙					
http://service.sag					

License keys installed for Abap

Goto Edit System Help					
8 E	4 🗉   😋 🙆 🔇	)   🗅 (A) (	8   <b>8</b> 19 1	🗘 🕄   🔀 🗾	🔞
SAP License Adminis	tration # Dig	itally-Sig	gned Lic	ense Keys	5
🛐   🚜 🔟   💦   🚹 Online D	ocumentation	Old Licenses			
Current Settings					
Active Hardware Key Z	1928918575				
Installation Number 0	020190117				
License Expiration Date 3	1.12.9999				
System Number 0	0000000031141324	13			
Installed Licenses					
Licenses in the Database					
Stat SID Hardware Key Swar	e Prod	Valid From	Valid To	Type Inst. No.	
COBXTP Z1928918575 NetW	eaver_MSS	02.08.2010	31.12.9999	Perm 002019	
COBXTP Z1928918575 Maint	enance_MSS	02.08.2010	03.11.2010	Perm 002019	
					<b>▲</b>
					•
				••	
8 10 🕰 🕰	Install				
Pamata Hardwara Kay					
Determined LB8(Vov					
Hardware	(ov. [TT]				
most matuwater					
	Determine				
Request Lisense Key					
You can request a license key on the	CAD Convice Merice	talaca at			
http://www.ice.com/ice	e omr bervice Marke	uprate at	labla		
nup.//service.sap.com/licensekey. II	tere is also more in	iormation avai	lable		
about the license key there.					
nttp://service.sap.com/licensek	ey				

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).

\\pordosol\sapmnt\SLM\SY	5\exe\uc\NTAMD	64		
File Edit View Favorites	Tools Help			4
🛛 🚱 Back 🝷 🕥 🖌 🏂 🍃	🔵 Search 🛛 🌔 Fi	olders 🔯 🎯	🗙 🍤   🎫   💕	<b>*</b>
Address 🛅 \\pordosol\sapmnt\SL	M\SYS\exe\uc\NTAM	ID64		💌 🄁 د
Name 🔺	Size	Туре	Date Modified	
🖬 sapccmsr.pdb	5.747 KB	PDB File	10/3/2010 20:19	
sapcontrol.exe	2.060 KB	Application	10/3/2010 20:11	
🖬 sapcontrol.pdb	2.131 KB	PDB File	10/3/2010 20:11	
sapcpe.exe	583 KB	Application	10/3/2010 20:06	
🖬 sapcpeft	3 KB	File	28/1/2010 17:18	
🖄 sapcpp46.dll	880 KB	Application Extension	30/6/2010 02:10	
Sapcrypto.dll	2.316 KB	Application Extension	23/7/2010 01:27	
🖬 sapcrypto.lst	1 KB	LST File	27/7/2010 22:10	
🔊 sapcsa.dll	926 KB	Application Extension	30/6/2010 02:10	
🖬 sapcsa.pdb	1.283 KB	PDB File	29/6/2010 19:48	
sapdbmrfc.exe	134 KB	Application	28/1/2010 17:32	
🔊 sapevents.dll	731 KB	Application Extension	10/3/2010 19:44	
sapevt.exe	1.551 KB	Application	28/1/2010 17:32	
sapexec.exe	138 KB	Application	28/1/2010 17:32	
sapftp.exe	3.139 KB	Application	28/1/2010 17:32	
sapgenpse.exe	15 KB	Application	23/7/2010 01:27	
saphttp.exe	3.166 KB	Application	28/1/2010 17:32	
sapiconv.exe	2.307 KB	Application	28/1/2010 17:32	
sapkprotp.exe	5.287 KB	Application	28/1/2010 17:32	
saplicense.exe	2.101 KB	Application	28/1/2010 17:32	
saplikey.exe	3.430 KB	Application	30/6/2010 02:10	
🖬 sapmanifest.mf	1 KB	MF File	28/1/2010 16:08	
🖬 sapmanifestdb.mf	1 KB	MF File	28/1/2010 16:08	
sapntchk.exe	1.727 KB	Application	10/3/2010 19:43	
sapntkill.exe	174 KB	Application	10/3/2010 19:43	
sapntstarttp.exe	21 KB	Application	28/1/2010 17:32	
saontwaitforhalt.exe	487 KB	Application	10/3/2010 20:11	

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

= SAPSECULIB ssf/name

ssf/ssfapi\_lib = <Path and file name of the SAPCRYPTOLIB>

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

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

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_DVEBMGS	500_PORDOSOL
#.*	-	
#.*	version = 00	00013
#.*	Generated by user = SLMI8157	763
#.*	Generated on = 17.02.2010 ,	20:15:00
#.*		
#. ******	*******	**************
dia a nameto	on crostod	by characters
licm/serve	er port 2 = PROT=HTTPS.PORT=44	13
EXECUTION FOR THE PARTY	Chester	nv: sc
Hold wold	IN CICCULARIES (CONCRETE)	10 dll by. 50t
(7.1)		. 12.2
JSec/ Inbsa	apsecu = \$(DIR_EXECUTABLE)\sap	ocrypto.dii



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











### **Restart ICM**

Y System PSE		
X SNC SAPCryptolib	SSL server Standard	
	Own Certificate	
pordosol_SLM_00	Owner CN=pordosol.sle.sap.corp, OU=Server, O=SAP Trust Cor	nmuni
🗙 SSL client SSL Client (Anonyr		
🗙 SSL client SSL Client (Stands		
X SSL client WSSE Web Service	Certificate List	
X WS Security Standard	Owner	
We Security We Security Keys		
File		
\$ · · ···		
	Veri. PSE A Password	
	Certificate	
	Owner CN=pordosol.sle.sap.corp	
	Issuer CN=portosol sle sap com	
	Serial Number 20100804212322	
	Valid From 04.08.2010 21:23:22 to 01.01.2038 00:00:1	91
	Check Sum 43:5D:86:33:3E:7D:4D:E5:C1:0B:77:E5:4D:94:12:6E	
	43.30.30.33.31.10.20.51.00.11.11.32.03.11.2.0E	
	Add to Certificate List	
1		
R SSI PSE covert (rectart ICM)		QLM //1\001 He particul INC
USE FOE Saved (restait ICM)		

### SMICM

Ē	ist <u>E</u> d	lit <u>G</u> oto	Administratior	n <u>S</u> ettings	System	Help				
0			ICM		÷	Exit <u>S</u> oft	•	Local		1
10	na na	opitor	J2EE Insta	ince (local)	+	Exit Hard	•	<u>G</u> lobal		
	IVI IVI	UTILUI	J2EE Clus	ter (global)	+	Maintenance Mode	+			
Q	<b>S</b>	🛛 🔍 Rel	Leave Eme	erge <u>n</u> cy Mode		 Configuration	•	0.	- B	
						Start Options				
IC	M Staf	tus:		Running	c	Restart				
Re	start	After Er	non	true	L	-				
Cr	ace Le eated	Worker T	): hreads:	10 / 10	/ 50	(Current / Peak	/ Ma	ximum )		
Cc Qu	nnect <sup>.</sup> eue Er	ions Used ntries Us	: ed:	0 / 12	/ 500	( Current / Peak ( Current / Peak	/ Ma / Ma	ximum ) ximum )		
Qu	nnect eue Er No.	ions Used ntries Us Thread I	: ed: D Number	0 / 12 0 / 5 Status	/ 500	( Current / Peak ( Current / Peak Processed Reque	/ Ma / Ma st	ximum ) ximum )		
	nnect eue Er No.	tons Used ntries Us Thread I 3224	: ed: D Number 26.056	0 / 12 0 / 5 Status Available	/ 500	( Current / Peak ( Current / Peak Processed Reque	/ Ma / Ma st	xinun ) xinun )		
	Nnect leue Er No. 1 2	Thread I 3224 2104	: ed: D Number 26.056 26.715	0 / 12 0 / 5 Status Available Available	/ 500	( Current / Peak ( Current / Peak Processed Reque	/ Ma / Ma st	xinum ) xinum )		
	NO. NO. 1 2 3	Thread I 3224 2104 7004	: ed: D Number 26.056 26.715 26.105	0 / 12 0 / 5 Status Available Available Running	/ 500	( Current / Peak ( Current / Peak Processed Reque Administration	/ Ma / Ma	xinum ) xinum )		
	No.	Thread I 3224 2104 2480 2480	: ed: 26.056 26.715 26.105 26.762	0 / 12 0 / 5 Status Available Running Available	/ 500	( Current / Peak ( Current / Peak Processed Reque Administration	/ Ma / Ma st	xinum ) xinum )		
	No.	Thread I 3224 2104 7004 2480 4744 2994	: ed : 26 . 056 26 . 715 26 . 762 26 . 762 26 . 050	0 / 12 0 / 5 Status Available Running Available Available Available	/ 500	( Current / Peak ( Current / Peak Processed Reque Administration	/ Ma / Ma st	xinum ) xinum )		
	No. No. 1 2 3 4 5 6 7	Thread I 3224 2104 7004 2480 4744 2824 2805	: ed: 26.056 26.715 26.105 26.762 26.050 26.665 26.665	0 / 12 0 / 5 Status Available Running Available Available Available	/ 500	( Lurrent / Peak ( Current / Peak Processed Reque	/ Ma / Ma	xinum ) xinum )		
	No. No. 1 2 3 4 5 6 7 8	Thread I 3224 2104 7004 2480 4744 2824 3696 2028	: ed: 26.056 26.715 26.105 26.105 26.665 26.050 26.665 26.065	0 / 12 0 / 5 Status Available Running Available Available Available Available Available	/ 500	( Current / Peak ( Current / Peak Processed Reque	/ Ma / Ma	xinum ) xinum )		
	nnect eue Er No. 1 2 3 4 5 6 7 8 9	Thread I 3224 2104 7004 2480 4744 2824 3696 2028 4600	: ed: 26.056 26.715 26.105 26.762 26.050 26.665 26.064 26.664 26.007	0 / 12 0 / 5 Status Available Running Available Available Available Available Available Available	/ 500	( Current / Peak ( Current / Peak Processed Reque Administration	/ Ma / Ma	xinum ) xinum )		

Yes

List Edit Goto Administ	ration <u>S</u> ettings System <u>H</u> elp
Ø	■ 4 8 6 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
ICM Monitor	
🕄 🛐 🗐 🥋 Release No	tes 🖻 🖪 🗛 🌾 🖾 💭 🖧 🖾 🐨 🗣 🖬 🖬 🖊 🖌 🕨 🕅
ICM Status: Restart After Error Trace Level (0-3): Created Worker Threads: Connections Used: Queue Entries Used: No. Thread ID N	Running     CC       1     1       19     / 10       / 10     / 50       (Current / Peak / Maximum)       (Comparison of the system)       Do you really want to restart all ICM processes in the system?
1 3224 26 2 2104 26	Yes No 🗱 Cancel
3         7004         26.           4         2480         26.           5         4744         26.           6         2824         26.           7         3696         26.           9         4600         26.           10         3816         26.	105         Running         Administration           762         Available         0           656         Available         0           667         Available         0           6684         Available         0           769         Available         0           760         Available         0           761         Available         0           762         Available         0           763         Available         0

### SSL Client Standard

PSE E	Edit Goto Certificate	e Environment S	,
0		1 4 📙 I 😋 🤅	
Trust	Manager		
🗙 Sys	tem PSE		
X SN	C SAPCryptolib		
· 🖸 35	pordosol SLM 00		
× SS	L client SSL Client (And	onymo	
💥 SS	L client SSL Client (S	Create	
× SS	L client WSSE Web S		
	Security Standard	Enery	
x we	Security WS Security k	evs	
💬 File	) )	,-	
			l
🗙 SSI	L client SSL Client (And	nymo	(Se
💥 SS	L client SSL Client (Sta	ndar	
× SSI	L client WSSE Web Ser	vice Se	Certificate List
× WS	Security Standard	Enon	Ow
	Security 6(S Security k	Encry PVS	
💬 File			
-	🔄 Create PSE		X
	Name	SLM SSL client SSL	Client (Standard)
	Org. (Opt)	10020190117	
	Comp./Org.	SAP Web AS	
	Country		
	CA	0=SAP Trust Comr	nunity, C=DE 🔀
	Algorithm	RSA 📋	
	Key Length	1024 🖺	4
	V 0 ×		u= 1

### 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*.

🔁 pordosol - Remote Desktop				
Nisual Administrator - [SLM\Serve	er 0 0_70584\Services\Key	Storage]		_
Connect View Tools Help				
I I I I I I I I I I I I I I I I I I I				
<b>b b</b> 🗶 🐲				
Global Configuration	Runtime Properties	Additional Info		
	Views	Entries	SECRET KEY	
• SLM	CTCView	services_services	[creationDate]: Tue Nov 03 03:40:11 BRST 2009 [algorithm ]: DESodo	
🕈 🕈 🖉 Server 0 0_70584 (pord	TicketKeystore	services_services	[ format ]: RAW	
C- 56 Kernel	TrustedCAs	wenabhe_sah~coi		
• 🚡 Libraries	UMEKeystore			
🌳 🙀 Services	WebServiceSecurity			
Administration Ac	securestorage			
Application Clien				
Application Locki				
w basic Auministra				
- 😤 cat/runtime/conn				
cat/um/metadata		10000		
- P CentralUnificatio				
- 😤 Certificate Revoc		0000		
Classboader Vie			Input 🛛	
Configuration Ad		100000	Enter an alias:	
ConfService			service ss	
- P Deploy		89		
Destinations			OK Cancel	
Planta State		0000		
- 😤 Document Servic				
Document Servic     Q     Document Servic		10000		
🚽 📯 Document Servic				
- 📯 Document Servic			Entry	View
			Create	Save to File
- 🗭 EJB Container - 😤 File Transfer			Rename	Load from File
- 👾 HTTP Provider - 📯 IIOP Provider			Delete	Import from Other
- 2 JCo RFC Provide - 2 JDBC Connector			Load	CSR
- 📯 JMS Connector - 📯 JMS Provider				Generate CSR Request
- 📯 JMX Adapter - 📯 JMX Notification	Create View		Export	Import CSR Response
- ** JNDI Registry - ** Key Storage	Delete View	Content Propertie	S	
Visual Administrator - [51 M) Some	er 0.0. 70584\Services\Key	Storage		
<u>Connect View Tools Help</u>				
۱ 🖉 🖉 🖉				
1 1 1 × 👳				
Global Configuration	Runtime Properties	Additional Info		
Cluster	Views	Entries	rno dotos	
SLM	CTCView		<ilo data=""></ilo>	
Dispatcher U U_70584 (p) Q AP Server 0 0 70584 (pord)	DEFAULT			
• 🚮 Kernel	TicketKeystore			
Interfaces	UMEKeystore			
P 🙀 Services	WebServiceSecurity			
ABAP Communic	securestorage			
Administration A	service_ssl			
- 📯 Application Locki				
🔲 🦳 👾 Basic Administra 💹 🖗				





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.



### Double click the file

tobesigned.csr-Notepad
 File Edit Format View Help
-----BEGIN NEW CERTIFICATE REQUEST-----BMIIBUZCCASQCAQAwezELMAkGalUEBhMcQ1IxGjAYBgNVBAgTEVJpbyBHcmFuZGUgBZG8gU3VSMQwwcgYDVQQHEWNTTEUXDTALBgNVBAOTBFNBUCAXEZARI
b. Send the certificate signing request to a CA to be signed.

The exact procedure to use depends on the CA that you use. For the SAP CA, follow the instructions provided by the SAP Trust Center Service at <u>service.sap.com/tcs</u>.



c. Save the certificate request response to a file in the file system. Use the extension .crt (DERencoded or Base-64 encoded) or .cert (Base-64 encoded).



d. Import the corresponding certificate request response. Choose Import CSR Response and load the response from the file system.

🚰 pordosol - Remote Desktop			- 0
Visual Administrator - [SLM\Serv	ver 0 0_70584\Services\Key	itorage]	-
<u>Connect</u> <u>View</u> <u>Tools</u> <u>H</u> elp			
ی کی او او او			
1 1 × 🖤			
Global Configuration	Runtime Properties	Additional Info	
Cluster	Views	- Fastring	
Cussel     TTTP Provider     FITTP Provider     Uop Provider     Java Mail Client     Job Connector     UDBC Connector     UDBC Connector     UMS Adapter     UMK Notification     UMK Notification     UMK Notification     UMK Notification     UMK Notification     UND Registry     Key Storage     Licensing Adapter     Locking Adapter     Log Viewer     Wemory Info     Wessage Info     Wersage Info     Wingration Service     Monitoring     P 4 Provider     PDF Manipulation     P Pf Manipulation     P PM	Views CTCView DEFAULT TicketKeystore TrustedCAs UMEKeystore WebServiceSecurity securestorage service_ssl	Entries       PRIVATE KEY         ssl-credentials       [creationDate]: Sun Aug 08 17:57:21 BRT 2010         ssl-credentials       [adjorithm]: RSA         [format]: PKCS#8       [format]: PKCS#8         [setBigned]:       [DN]: CN=pordosol.sle.sap.corp.OU=SAP Brazil,0=SAP,L=SLE,ST=RS,C=BR         [issuerDN]: Sap.domithmerrish Mithark Brazil, Mon Aug 08 17:56:00 BRT 2010         [validNuBerl: Mon Aug 08 17:56:00 BRT 2011         [signAgorithm]: S1:677:984:58:C8:68:68:CF:4C:F2:50.FF:80:3C:62         [Look in: ] DR         [set.crt         [set.crt         [set.crt	
Kernote Object L     Kuntime Info Pro     SML     SML     SSUC Service     Secure Storage     Security Provider     Session Failover     Shell Administrat     SLD Data Suppli     SL Provider     to/sCATTPing/se     Costructoremetre		File Name:     Certificatesigned.ort       OK       Files of Type:       All Files ('.')       Create         Save to File   Load from File	
Telnet Provider		Rename	
- 🐨 Timeout - 😪 Transaction		Delete Import from Other	
- 1 TREX Service		CSR	
- Vser Storage		Load	nt
VI		Lenerate USK Redue	
🔭 🔭 VIIUS OLAH FIUWI		Generate CSK Keque	51

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.

🛆 ¥isual Administrator - [SLM\Serv	er 0 0_70584\Services\SSL	Provider]			_ 8 ×
Connect View Tools Help					
<ul> <li></li></ul>					
陆 🗽 🖈 🚥					
Global Configuration	Runtime Properties	Additional Info			
Cluster	Dispatcher 0 0_70584	Configuration			
HTTP Provider		O New Sockets 🔹 Ac	tive Sockets		
🗕 📯 Java Mail Client			Host		Port
- 😤 JCo RFC Provide		10.2.131.41		50003	
JDBC Connector		10.2.131.41		50001	
- WS Connector		10.2.131.41		50006	
- MX Adapter					
JMX Notification					
- 📯 JNDI Registry					
— 📯 Key Storage					
- 😤 Leak Detector					
- 😤 Licensing Adapte					
Locking Adapter					
Log Configurator					
Memory Info			<i>k</i>		
- Wessage Info			Available Credentials	X	
- P Migration Service		Cipher Suite Server Ic	Credentials		
- 📯 Monitoring		Choose default credential:	ssl-credentials		pling of different cipher suites. Choose keys first.
- 📯 P4 Provider		Enabled Credential			
- 📯 PDF Manipulatio		Endored en edentida			Add
Performance Tra					
- 😤 PMI					Remove
Remote Object C					
Ruhume into Pro					
SDIC Service					
- P Secure Storage					
Security Provider					
🚽 📯 Session Failover					
🗌 🚽 📯 Shell Administrat					
SLD Data Suppli					
SSL Provider			OK Cancel		
📗 🔰 🖓 trieCATTPinnise 📰 🛙					

- 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.).

A Visual Administrator - [SLM\Serv	ver 0 0_70584\Services\S5L Provider]	BX
Connect View Tools Help		
۱		
1 k k 🛪 👳		
Global Configuration	Runtime Properties Additional Info	
Cluster	Dispatcher 0 0 70584 Configuration	
IOR Provider	New Sockets     O New Sockets	
- Ava Mail Client		
- 2 JCo REC Provide	H051 F0002	
- 🖓 JDBC Connector	10.2.131.41 50003	
- 📯 JMS Connector	10.2.131.41 50006	
- 📯 JMS Provider		
- 📯 JMX Adapter		
- 📯 JMX Notification		
- 😤 JNDI Registry		
- 👾 Key Storage		
- 💥 Leak Detector		
Licensing Adapte		
Log Configurator		
- Viewer		
- A Memory Info		
- 📯 Message Info		
- 🖗 Migration Service	Cipher Suite Server Identify Client Authentication	
- 📯 Monitoring	Choose default credentials that will be used in handshake. Different credentials are needed for enabling of different cipher suites. Choose keys first.	
- 📯 P4 Provider	- Enabled Crodential	
- 📯 PDF Manipulatio	Add	
- 😤 Performance Tra	ssi-credenuals	
- ₩ PMI	Remov	e
Remote Object C		
Runtime Into Pro		
SDIC Service		
Secure Storage		
Security Provider		
- 📯 Session Failover		
Shell Administrat		
🚽 📯 SLD Data Suppli		
SSL Provider		
II 📃 🖓 tría 🖓 ATTPinníca 💹 🗌		

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

**Application Server Java** 

#### 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.

#### <u>User Management</u>

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 (MME). 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.

Prove Security Options   Connection Test   Pescription   Description   Description 1   pescription 2   Description 3   Administration Technical Settings   Logon & Security   Special Options   Target System Settings   Target Most   Proxy Options   Colsal Configuration   Proxy Description 1   Security Options	- Connection E	dit Goto Extras Utilities System Help
PC Destination SLMTEST   Connection Type B   HTTP Connection to External Serv Description   Description 1 generated automatically   Description 2 Description   Description 3 Administration   Target System Settings Target System Settings   Target System Settings Service No.   Proxy Poty Dions Proxy Options   Connection Test Service   Proxy Proxy Diver Proxy Description   Pescription 1 Service No.   Description 2 Description   Description 3 Coron & Security   Administration Technical Settings   Logon Proceedure No Logon   No Logon Security Options   Status of Secure Protocol Ssi.   Ssi. Client Certificate   DFAULT SSL Client (Standard) Cert. List   Authorization for Destination Secure   User </td <td>2</td> <td>x (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2</td>	2	x (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Connection Test       SUMTEST         Connection Type       B         HTTP Connection to External Serv       Description         Description 1       generated automatically         Description 2       Description         Description 3       Administration         Administration       Technical Settings       Logon & Security         Target System Settings       Target System Settings       Service No.         Target System Settings       Is insol ManServices / Config       Service No.         HTTP Proxy Options       Is insol ManServices / Config       Service No.       5000         Path Prefix       /s insol ManServices / Config       Service No.       5000         Proxy Desc       Proxy Options       Service       Proxy Options         Connection Test       Service       Proxy Description         Proxy Description 1       Service No.       Description         Description 2       Description 1       Security Options         Security Options       Logon & Security       Special Options         Administration       Technical Settings       Logon & Security       Special Options         Security Options       Logon Assertion Ticket       Security Options       Cert. List         Authorization for Destination	RFC Destir	nation SLMTEST
RFC Destination SLMTEST   Connection Type B   HTTP Connection to External Serv Description   Description 1 generated automatically   Description 2 Description   Description 3 Administration   Administration Technical Settings   Target System Settings Logon & Security   Target System Settings Service No.   Proxy Options Cent Configuration   Proxy Service Proxy Service   Proxy Service Proxy Service   Proxy Service Proxy Service   Proxy Service Proxy Options   Security Options Security Description   Description 1 Service Not Security   Description 2 Description   Description 3 Coron & Security   Administration Technical Settings   Logon Procedure No Logon   No Logon Security Options   Security Options Security Options   Security Options Security Options   Security Op	Connection Test	1
No Cleasington   Description   Administration   Technical Settings   Logon & Security   Service No.   Frow Host   Prowy Options   Obsection   BLMTEST   Connection Test   Prowy Batus   Is initial       Prowy WS Status      Security Options	REC Dectination	
Description 1 generated automatically Description 2 Description 2 Description 3 Administration Technical Settings Logon & Security Special Options Target System Settings Target System Settings Target Host pordosol.sie.sap.corp Service No. 59007 Path Prefix /s1mS01ManServices/Config1 HTTP Proxy Options Coloal Configuration Proxy Host Proxy Options Proxy User Proxy User Proxy User Proxy User Proxy User Proxy User Proxy PW Status 1s 1n1t1a1 Connection Test	Connection Type	e 6 HTTP Connection to External Serv Description
Description 1 generated automatically Description 2 Description 3 Administration Technical Settings Logon & Security Special Options Target System Settings Target System Settings Service No. 5000 Path Prefix / Is1mSol ManServices / Config1 Proxy Service Proxy User Proxy User Proxy User Proxy User Proxy User Proxy User Proxy User Proxy User Proxy User Security Options Security Options Logon Procedure Site Authentication Beak Assertion Ticket Site Client Certificate DFAULT SSL Client (Standard) User Solution for Destination User Solution Solution User Solution Solution Description De	Description	
Description 2 Description 2 Description 3 Administration Technical Settings Logon & Security Special Options Target System Settings Target Host pordosol site sap.corp Service No. 50000 Path Prefx / Is1 mS01 ManSer v1 ces / Conft g1 HTTP Proxy Options Global Configuration Proxy Host Proxy Options Global Configuration Proxy Vost Is initial Proxy Status Is initial Proxy Status Is initial Proxy Status Is initial Proxy Post Proxy Options Excription BLMTEST Connection Type 6 HTTP Connection to External Serv Description Description 1 generated automatically Description 2 Description 3 Administration Technical Settings Logon & Security Special Options Security Options Ecogon Options Ecogon Options Status of Secure Protocol SSL Client Certificate DFAULT SSL Client (Standard) Cert List Authorization for Destination User solman_admin Prox Status Isaved	Description 1	generated automatically
Description 3         Administration       Technical Settings       Logon & Security       Special Options         Target System Settings       Target Host       pordosol.sie.sap.corp       Service No.       5000'         Path Prefix       /s1mSol ManServices/Config1       Service No.       5000'         HTTP Proxy Options       Global Configuration       Proxy Host       Proxy Service         Proxy User       Proxy Service       Proxy Service       Proxy User         Proxy User       Proxy Vestatus       1s       initial         Description       BLMTEST       Description         Description 1       generated automatically       Description         Description 2       Description 3       Security Options         Administration       Technical Settings       Logon & Security       Special Options         Security Options       Logon Procedure       No Logon       Security Options       Cert List         Authorization for Destination       Description       Cert List       Authorization for Destination       Cert List         User       solman_admin       PWX Status       saved       Saved       Saved	Description 2	
Administration       Technical Settings       Logon & Security       Special Options         Target System Settings       Target Host       pordosol.sie.sap.corp       Service No.       5000'         Path Prefix       /s1mSol ManServices/Config1       Image Provement State       5000'         HTTP Proxy Options       Global Configuration       Image Provement State       Figure State         Proxy Bervice       Proxy Service       Proxy Service       Proxy Service         Proxy User       Proxy Voter       Proxy Voter       Proxy Voter         Proxy Voter       Proxy Voter       Proxy Voter       Proxy Voter         Proxy User       Is initial       Proxy Voter       Proxy Voter         Proxy Prox Voter       Is initial       Proxy Voter       Proxy Voter         Description 1       generated automatically       Description       Proxy Voter         Description 3       Executive Votions       Security Options       Security Options         Logon Procedure       No Logon       Security Cotions       C	Description 3	
Target System Settings Target Host pordosol.sie.sap.corp Service No. 5000 Path Prefix //s1mSolManServices/Config1  HTTP Proxy Options Global Configuration Proxy Host Proxy Service Proxy User Proxy Vevr Host Proxy Vevr Host Proxy PW Status Is Initial  Connection Test Prox Prox Host Description	Administrati	on / Technical Settings / Logon & Security / Special Options
Target Host       pordosol.sie.sap.corp       Service No.       5000         Path Prefix       /s1mSolManServices/Config1         HTTP Proxy Options	Tarnet System	Softinge
Path Prefix       /s1mSO1ManServices/Config1         HTTP Proxy Options	Target Host	pordosol.sle.sap.corp Service No. 5000
HTTP Proxy Options Global Configuration Proxy Host Proxy Service Proxy User Proxy Ver Proxy Ver Proxy Ver Proxy Ver Status 1 is initial Connection Test Proxy PW Status Is initial Connection Test Proxy PW Status Is initial Connection Test Proxy Prox Prox Prove Proxy PW Status Exercision Description Description Description Description 1 Description 2 Description 3 Administration Technical Settings Logon & Security Special Options Security Options Security Options Security Options Security Options Security Options Situals of Secure Protocol SSL SSL Client Certificate DFAULT SSL Client (Standard) User Solman_admin PW Status Saved	Path Prefix	/slmSolManServices/Config1
HTTP Proxy Options Global Configuration Proxy Host Proxy Service Proxy User Proxy Ver Proxy Ver Proxy Ver Proxy Ver Proxy PW Status 1s initial Connection Test Proxy PW Status 1s initial Connection Test Status of Secure Protocol SSL SSL Client Certificate DFAULT SSL Client (Standard) Cert List Authorization for Destination User Votatus 1s aved		
Clobal Configuration         Proxy Host         Proxy Service         Proxy User         Proxy Viser         Proxy Pow Status         1s Initial         Security Option 1         generated automatically         Description 2         Description 3         Administration         Technical Settings         Logon Forcedure         No Logon         Security Options         Logon Procedure         No Logon         SSL Client Certificate         DFAULT SSL Client (Standard)         Sitalue of Secure Protocol         SSL         User         Solma_admin         Viser         Solma_adm	HTTP Proxy Opt	ions /
Proxy Host	Global Cont	iguration
Proxy Service         Proxy User         Proxy PW Status         1s initial         Connection Test         Image: Service         Proxy PW Status         1s initial         Connection Test         Image: Service         Proxy PW Status         1s initial         Connection Type         HTTP Connection to External Serv         Description         Description 1         Description 2         Description 3         Administration         Technical Settings         Logon Procedure         No Logon         Basic Authentication         Basic Authentication         SSL         SSL Client Certificate         DFAULT SSL Client (Standard)         Cert. List         Authorization for Destination         User         Solman_admin         PW Status	Proxy Host	
Proxy User Proxy PW Status 1s 1n1t1a1 Proxy PW Status 1s 1n1t1a1 Connection Test Proxy PW Status 1s 1n1t1a1 Proxy PW PW PW PW PW PW PHONE PUBLINE Proxy PW Status 1s 1n1t1a1 Proxy PW Status 1s 1n1t1a1 Proxy PW PW PHONE PUBLINE Proxy PW PUBLINE Pr	Proxy Service	
Proxy PW Status       1s       1nitial         Connection Test       Image: Status       Image: Status       Image: Status         RF C Destination       Image: Status       Image: Status       Description         Description 1       generated automatically       Description         Description 2       Description 3         Administration       Technical Settings       Logon & Security         Security Options       Image: Status of Secure Protocol         SSL       SSL       Onactive         SSL       Description       Cert. List         Authorization for Destination       Image: Status       Cert. List         User       solman_admin       PW Status       Saved	Proxy User	
Sonnection Test	Proxy PW Statu	s is initial
Connection Test       SILMTEST         Connection Type       HTTP Connection to External Serv       Description         Description       generated automatically       Description         Description 1       generated automatically       Description         Description 2       Description 3       Description 3         Administration       Technical Settings       Logon & Security       Special Options         Security Options       Security Options       Security Options       Security Options         Status of Secure Protocol       SSL       Onactive       Security Securi		
Connection Test       SLMTEST         Connection Type       6       HTTP Connection to External Serv       Description         Description       generated automatically       Description         Description 1       generated automatically       Description         Description 2       Description 3       Description 3         Administration       Technical Settings       Logon & Security       Special Options         Security Options       Ecogon Procedure       Special Options       Security Control         Security Options       Security Control       Security Control       Security Control         Status of Secure Protocol       SSL       SSL       Client Certificate       DFAULT SSL Client (Standard)       Cert. List         Authorization for Destination       Image: Security S		
RFC Destination       BLMTEST         Connection Type       HTTP Connection to External Serv       Description         Description       generated automatically       Description         Description 1       generated automatically       Description         Description 2       Description 3       Description 3         Administration       Technical Settings       Logon & Security       Special Options         Security Options       Ecogon Procedure       No Logon       Special Options         Status of Secure Protocol       SSL       Onactive       Oct. List         Authorization for Destination       DFAULT SSL Client (Standard)       Cert. List         Authorization for Destination       User       solman_admin       WX Status	Connection Test	<b>19</b>
Connection Type 6 HTTP Connection to External Serv Description Description Description Description 1 generated automatically Description 2 Description 3 Administration Technical Settings Logon & Security Special Options Security Options Ecogon Procedure ON0 Logon @ Basic Authentication Bend Assertion Ticket SSL Client Certificate DFAULT SSL Client (Standard) Cert. List Authorization for Destination User solman_admin PWV Status saved	RFC Destination	SLMTEST
Description Compont Security Securit	Connection Type	6 HTTP Connection to External Serv Description
Description 1 generated automatically Description 2 Description 3 Administration Technical Settings Logon & Security Special Options Security Options Logon Procedure No Logon © Basic Authentication © Basic Authentication SSL SsL Client Certificate DFAULT SSL Client (Standard) SSL Client Certificate DFAULT SSL Client (Standard) User solman_admin Wy Status saved	Description	
Description 2 Description 2 Description 3  Administration Technical Settings Logon & Security Special Options Security Options Logon Procedure	Description 1	generated automatically
Description 3         Administration       Technical Settings       Logon & Security       Special Options         Security Options       E.ogon Procedure       No Logon       Security Special Options         Basic Authentication       Basic Authentication       Security Security       Security Security         Status of Secure Protocol       SSL       Oinactive       Oct. List         Authorization for Destination       Image: Security Security       Cert. List         Logon       User       solman_admin       PW Status         FW Status       Saved       Saved       Security	Description 2	
Administration     Technical Settings     Logon & Security     Special Options       Security Options	Description 3	
Security Options Logon Procedure No Logon Basic Authentication Bend Assertion Ticket Status of Secure Protocol SSL SSL Client Certificate DFAULT SSL Client (Standard) Cert List Authorization for Destination User Solman_admin WX Status Saved	Administratio	n Technical Settings Logon & Security Special Options
Logon Procedure No Logon Basic Authentication Status of Secure Protocol SSL SSL Client Certificate DFAULT SSL Client (Standard) Cert List Authorization for Destination User Solman_admin PW Status Saved	Security Options	
No Logon         Status of Secure Protocol         SSL         SSL         Olient Certificate         DFAULT SSL Client (Standard)         Cert. List	Logon Procedu	re
Basic Authentication     Bend Assertion Ticket  Status of Secure Protocol  SSL SSL Client Certificate DFAULT SSL Client (Standard) Cert. List  Authorization for Destination  Logon User solman_admin PW Status saved	O No Log	on
Send Assertion Ticket Status of Secure Protocol SSL SSL Client Certificate DFAULT SSL Client (Standard) Cert. List Authorization for Destination User solman_admin PW Status saved	🖲 Basic A	uthentication
Status of Secure Protocol SSL Oinactive  Active SSL Client Certificate DFAULT SSL Client (Standard)  Cert. List Authorization for Destination User solman_admin PW Status saved	Send A	ssertion Ticket
SSL Client Certificate OFAULT SSL Client (Standard) Cert. List Authorization for Destination User solman_admin PW Status saved	Status of Secur	e Protocol /
SSL Client Certificate DFAULT SSL Client (Standard) Cert. List Authorization for Destination User solman_admin PW Status saved	SSL	O Inactive   Active
Authorization for Destination Logon User solman_admin PW Status saved	SSL Client Cer	tificate DFAULT SSL Client (Standard) 🗋 Cert. List
Logon USer solman_admin PW Status saved	Authorization for	Destination
User solman_admin PW Status saved	Logon	
PW Status saved	User	solman_admin
	PW Status	saved

### Execute a connection test

2 2	
Connection Edit	Goto Extras Utilities System Help
EC Destinati	
Connection Test  🀒	
REC Dectination	OI MTERT
Connection Type	6 HTTP Connection to External Serv
Description	
Description 1	SLM HTTPS Connection
Description 2	
Description 3	
Administration	Technical Cottings Legen & Results Presid Ontings
Auministration	reconnical beaungs Logion & Becunity Operal Opions
Security Options	
Logon Procedure	
No Logon     Decis duth	
Send Acc	enucauon artion Ticket
Status of Secure P	rotocol /
SSL	Olnactive   Active
SSL Client Certific	ate DFAULT SSL Client (Standard)
Authorization for De	stination
Logon	
Logon	of map, of min
PW/ Status	sumar_dumin
Password	
Johneedon I	
estination SL	MTEST
<sup>,</sup> . НТ	TP Connection to External Server
Test Result 🛛 🖡	tesponse Header Fields Response Body Response Text
Jetail Status UTTP Response	Value 20 200
Status Text	0K
Duration Test Call	25 ms
-	
Connection Test	dit Goto System Help
2	■ ④ ■ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
Connection T	est HTTP Destination SI MTEST
sonnection 1	est HTTP Desultation SLWTEST
estination SL	MTEST
/. HT	TP Connection to External Server
Test Result R	esponse Header Fields 🚽 Response Body 🖌 Response Text
Name	Value
response_line	HTTP/1.1 302 Found
-server_protocol	HTP77.1 302
-status_coue	Found
connection	close
server	SAP J2EE Engine/7.01
iate	Sun, 08 Aug 2010 21:18:23 GMT
content-type	text/plain
ocation	https://pordosol.sle.sap.corp.50001/wsnavigator/jsps/redirectauth.jsp?url=%2Fwsnavigator%2Fjsps%2Findex.jsp%3FlocatWS%3Dc2xtU29s
set-cookie	sapib_*=(pordosol_SLM_00)7058450; Version=1; Path=/
remote addr	Joebolovinu-luoroosol_SLim_bujib i 46400 i bobbedda 1830a i 840bb351 bct21 156008886860453End; Version=1; Domain=.sle.sap.corp; Pa
-uri scheme expand	ed NONE

# 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 <u>http://service.sap.com/patches</u> => <u>Support Packages and Patches - Entry by Application Group</u> => <u>Additional</u> <u>Components</u> => <u>SL CONTROLLER</u> => <u>SL CONTROLLER</u> 7.00 => <u># OS independent</u> =>



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.

C:\usr\sap\XTP\SYS\global					
×	Name 🔺	Size	Туре	Date Modified	Attribu
·op	000JOBLG		File Folder	8/5/2010 5:00 PM	
ly Documents	001 JOBLG		File Folder	8/5/2010 4:34 PM	
ly Computer	AdobeDocumentServices		File Folder	7/22/2010 7:04 PM	
<ul> <li>Local Dick (Cr)</li> </ul>	i2eeclient		File Folder	7/22/2010 6:56 PM	
Elocal Disk (C.)	🗀 ra		File Folder	7/22/2010 6:56 PM	
E Coduliarios and Seconds	Cancontrol		File Folder	7/22/2010 7:54 PM	
E Drogram Files	C SDT		File Folder	8/3/2010 6:16 PM	
E Constrain Files	consecurity		File Folder	7/22/2010 4:48 PM	
TEMODO	🚞 sld		File Folder	7/22/2010 6:57 PM	
	C 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	А
🖻 🔛 sap 🕀 🧰 coms	ms_acl_info.dat	1 KB	DAT File	7/22/2010 4:49 PM	Α



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.

ど SL	🕹 SLM System Info - Mozilla Firefox										
File	<u>E</u> dit	<u>V</u> iew	Hi <u>s</u> tory <u>B</u> ool	kmarks <u>T</u> ools	Help						
-	_										
<	< 🕞 👻 🔥 🜌 http://pordosol.sle.sap.corp:50000/monitoring/ComponentInfo										
Ú											
	System SLM										
	2	Software (	Components								
		Vendor	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 (8.2.2.0.2	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 <u>SLM Security Roles</u>

E
_
•
l

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.

List Edit Goto Settings System H	elp	
S 1	◎ ◎ ◎ ■ ₩ ₩ ₺ ₺ ₽ ₽ ◎ ■	
Multiple Software Lifecycle	Manager Configuration Assistant	
SLM Version Logical Port Name D SAP NETWEAVER 7.01 NONE S	est. SLM Check SLM Configuration Central Download Directory	
Prerequisite Configuration for using	g SLM in MOpz	Create a new HTTP / HTTPS connection
Start  Start  Start  Complete  Start  Start Start Start  Start  Start  Start  Start  Start  Start  Start  Start  Start  Start  Start  Start  Start  Start  Start  Start	You need to create a new or select an existed HTTP/HTTPS connection. Create a new HTTP/HTTPS connection • Input a name and choose the button "Create"; • In the popup, input the data: HTTP Connection	Connection Name: SLMTEST1 Target Host: pordosol.sle sap.corp Service No: 50001 User: solman_admin Password:
	🛃 Back 🛃 Continue 🕱 Canc	cel

Connection Name: Name of HTTP connection to external Server

RFC Edit Goto Extras Utilities System He	elp	
Ø 1 4 8 6 0 0	😡	- M H - 4 4 A - 4 - 4 A - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6
Configuration of RFC Connection	ns	
RFC Connections 7	Туре	Comment
ABAP Connections	3	
🗢 🔁 HTTP Connections to External Server 🛛 🤇	G	
DEC838A21D5A50F1BBE8001EC91AC1C(	G	Automatic Web Service Configuration
DEC838B44683E0F1BBE8001EC91AC1CC	G	Automatic Web Service Configuration
DECEF08160F40AF1AD64001EC91AC1C0	G	Automatic Web Service Configuration
DECF2028E9AF06F1AD64001EC91AC1C0	G	Automatic Web Service Configuration
DEDB60264CA3A0F19600001EC91AC1C0	G	Automatic Web Service Configuration
DEDB60264CA3B1F19600001EC91AC1CC	G	Automatic Web Service Configuration
DEEB46DBE33154F1921D001EC91AC1C(	G	Automatic Web Service Configuration
DEEB46E1E7606FF1921D001EC91AC1CC	G	Automatic Web Service Configuration
SLMTEST 0	G	SLM HTTPS Connection

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)

E≠ List Edit Goto Settings System He	elp	
	ⓒ ⓒ ଊା⊒ ╫╠∣ҲҀҲҲ∣҄҄ ҄҄҄ ҄ ҄	
Multiple Software Lifecycle	Manager Configuration Assistant	
SLM Version Logical Port Name De SAP NETWEAVER 7.01 NONE SLI	est. SLM Check SLM Configuration Central Download Directory MTEST 🕒 🧘	
Prerequisite Configuration for using	g SLM in MOpz	×
<ul> <li>Statt</li> <li>HTTP/HTTPS Connection</li> <li>Logical Port</li> <li>Complete</li> </ul>	Select the SLM version and input a logical port name.	
	Logical Port       SLM Version:       SAP NETWEAVER 7.01	
	Logical Port. NUNE Back Continue X Cancel	

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.



List	<u>E</u> dit <u>G</u>	oto <u>s</u>	Settings	System	<u>H</u> elp			
0					3   😋 🙆	😣   🗅 (H	]⊯∣\$°℃£;	🛍   🕱 🗷   🔞 📭
Mul	tiple S	oftw	/are L	.ifecy	cle Man	ager Co	nfiguration /	Assistant
	1							
SLM Ve	ersion		Logical	Port Nam	e Dest.	SLM Check	SLM Configuration	Central Download Directory
SAP NE	ETWEAVER	R 7.01	NONE		SLMTEST	<b>D</b>	2	<u>ک</u>
SAP NE	ETWEAVER	R 7.01	NONE1		SLMTEST1	Ð	<u> </u>	<i>G</i> <sup>2</sup>

# Execute a SLM Check

P

⊑r List Edit	Goto	Settings System	Help					
🖉 📄 🖉 🖉 🕲 🕲 😫 🔛 陆 🖧 🕾 🏠 🖉 🖫								
Multiple Software Lifecycle Manager Configuration Assistant								
			<u>``</u>	<u>\</u>				
SLM Version		Logical Port Nam	e Dest.	S M Check	SLM Configuration	Central Download Directory		
SAP NETWEA	VER 7.01	NONE	SLMTEST	T.	~	Ê		
SAP NETWEAVER 7.01 NONE1 SLMTEST1 🕒 🧏 😂								
Connection check is successful								

### Click SLM Configuration

List Edit Goto Setting Sy	stem <u>H</u> elp			
	🔨 🗵 । 😋 🙆 🔕	日間(	BI\$000	🗶   🐹 🗾   🛞 🗖
Multiple Software Life	cycle Manag	er Con	figuration	Assistant
SLM Version Logical Port	Name Dest. SLI	I Check S	LM Configuration	Central Download D
SAP NETWEAVER 7.01 NONE	SLMTEST	<b>(b)</b>	🔺 🍰	Ē
AP NETWEAVER 7.01 NONE1	SLMTEST1	⊕	<u> </u>	Ê
2				
System <u>H</u> elp				
S	े 📙 । 😋 🙆 🚷	I 🗅 (A) (	ä \$0 € (	
Software Lifecycle Ma	anager Config	uratio	n Assista	
		,		
Mandatory Settings Option	al Settings 👔 Check	Result Dis	play	
Soflware Lifecycle Manager				
User:	j2ee_admin			
Password:	*****	* * * * * * * * *	****	
Communication Mode:	SessionPass	word	1	
System Name	SLM			
Mail Recipient				
SMTP Server:	mailwdf.sap.c	orp		
Sender Address:	mateus.pedro	so@sap.co	rp	
Receiver Address:	mateus.pedro	so@sap.co	orp	
Software Logistics Controller				
Chack System ID, Database Ha				
CHECK System D Database no	SLC Host OS Us Pr	oxy User SN	MP User	

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 doubleclicking 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.

ectory

### 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.



Cyctam Hain			
		##:\$\$£££	
Software Lifecycle Mana	der Confidura	tion Assistant	
	iger eeningere		
Mandatory Settings Optional Se	ttings 🦷 Check Result	t Display	
<ul> <li>Start</li> <li>Basic</li> <li>SAPControl</li> <li>Download</li> <li>Users</li> <li>Complete</li> </ul>	SID: System ID Database Host: the H SLC Host: the Host of User: OS user, it mu System Information SID: Database Host: SLC Host: OS User User: Password:	Host of the Database of the SLC st be the <sid>adm user XTP sImtest simtest xtpadm</sid>	
System Help		Back 🛃 Continue 🗶	Cancel
Coffware Lifeovele Mone			
Software Enecycle Maria	iger configura	uon Assistant	
Mandatory Settings Optional Se	ttings Check Result	Display	
Start     Start     Basic     SAPControl     Download     Users     Complete	The HTTP and HTTP: change it, provided th change the SS in the system number and You can choose to u deselecting the chec SAP Control Use HTTPS HTTP Port:	S ports are displayed as default. You don't n tat the default ones are correct. You needn't port string. SLM can automatically identify t replace SS with it. se HTTPS port or HTTP port by selecting or kbox "Use HTTPS". \$8813	Leed to the
	HTTPS Port:	5\$\$14	

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

01010111 11010	
0	
Software Lifecycle Mana	ager Configuration Assistant
	5
Mandatory Settings Optional Set	rttings 🖌 Check Result Display
<ul> <li>Start</li> <li>Basic</li> <li>SAPControl</li> <li>Download</li> <li>Users</li> <li>Complete</li> </ul>	Download configuration is necessary for the managing system, where SLM will download the support packages from Service Marketplace into the download directory.         Proxy: basic proxy settings; configure this for the managing system only.         S User: the S User to Service Marketplace; configure this for the         Download         () Use Proxy         Proxy Host         10.2.82.19         Proxy Vent:         8080         Proxy Authentication         Proxy Password:         S User:         S0005636341         S User Password:
	Download Directory: Noordosol\sapmnfttrans\EPS\in
P	
	🔂 Back 🛃 Continue 🗶 Cancel
System Help	BIC G G I L H H H わわわれ ア P E ager Configuration Assistant
Mandatory Settings Optional Set	ttings Check Result Display
Mandatory Settings Optional Set	nttings / Check Result Display
Mandatory Settings Optional Set CF SLC Config Start Start Basic SAPControl Download	rttings Check Result Display JPAM user is required for Java system SPAM user is required for ABAP system
Mandatory Settings Optional Set C: SLC Config Start Basic SAPControl Download Users Complete	ttings Check Result Display  JPAM user is required for Java system SPAM user is required for ABAP system  User JSPM User I2ee_admin Password:  SPAM User: ddic Password:

C	
System Help	月1666126125772211110月
Software Lifecycle Mana	ager Configuration Assistant
Mandatory Settings Optional Se	ttings / Check Result Display
<ul> <li>Start</li> <li>Basic</li> <li>SAP Control</li> <li>Download</li> <li>Users</li> <li>∆ Complete</li> </ul>	Choose button "Complete" to finish the configuration of SLC for the system
	🔁 Back 🎸 Complete 🗶 Cancel

Save

System Help	
	그 랴 랴 (왜 () 그 () 😒 🏵 🕄
Software Lifecycle Mana	ger Configuration Assistar
Mandatary Sottings Ontional Sa	tinge Check Recult Dicplay
Wandatory settings Optional set	
Soflware Lifecycle Manager	
User:	j2ee_admin
Password:	* * * * * * * * * * * * * * * * * * * *
System <u>H</u> elp	
	]
Software Lifecycle Mana	ger Configuration Assistant
🖉 😔 🔀 🔳	
Mandatory Settings Optional Set	tlings Check Result Display
Software Lifecycle Manager	
User:	j2ee_admin
Password:	
Communication Mode:	SessionPassword 🗈
System Name	SLM
Mail Recipient	
SMTP Server:	mailwdf.sap.corp
Sender Address:	mateus.pedroso@sap.corp
Receiver Address:	mateus.pedroso@sap.corp
Software I C Information	
The configuration for t	he SLM is successful;

### Checking the Managed system

⊡ System <u>H</u> elp	
I 4 E	]   😋 🚱 😫   🖴 🛗 🆧   巻 🏠 🏠   🛒
Software Lifecycle Manag	ger Configuration Assistant
Mandatory Settings Optional Sett	ings Check Result Display
Soflware Lifecycle Manager	loss study
Oser.	SessionPassword T
System Name	SLM
	·
Mail Recipient	
SMTP Server:	mailwdf.sap.corp
Sender Address:	mateus.pedroso@sap.corp
Receiver Address:	mateus.pedroso@sap.corp
Software Logistics Controller	
Check System ID Database Host SLC I	Host OS User Proxy User SMP User
XTP simtest simte	st xtpadm S00058363
System Help	
	なみびない (41 (41 日) 🖇 🕄 🖇 🕄
Software Lifecycle Manag	ger Configuration Assistant
Mandatan Datinga Ontional Catt	Chaole Booult Dioplay
Mandatory settings Optional setting	ngs Check Result Display
Summary Result	
Check Result: PAS	3ED
Check Start Date: 2010	)-08-17_17:16:52
Check End Date: 2011	3-08-17_17:17:29
Detail	
Description	Status
Check OS User and SAP Control	✓
Check SLM-SLC connection for system:	XTP on host: simtest 🧹
Checking all SI Mass	figurationa
Unecking all SLIVI CON	ngurauons

C System Help 0 ) d 🖪 I 😋 😧 😫 🛯 🖧 I 🕾 🖄 Software Lifecycle Manager Configuration Assista Mandatory Settings 👘 Optional Settings 👘 Check Result Display Software Lifecycle Manager User: j2ee\_admin Communication Mode: SessionPassword System Name SLM Mail Recipient SMTP Server: mailwdf.sap.corp Sender Address: mateus.pedroso@sap.corp Receiver Address: mateus.pedroso@sap.corp Software Logistics Controller 
 Check
 System ID
 Database Host
 SLC Host
 OS User
 Proxy User
 SMP User

 XTP
 simtest
 simtest
 simtest
 sdpadm
 S00058363

 SLM
 pordosol
 pordosol
 simadm
 S00058363
 S00058363 S00058363

Cr System Help	
0 0 0 0 0 0 0 0	出版  谷 仓 众 农   🕱 🛛 🗐 🖷
Software Lifecycle Manager Configura	tion Assistant
Mandatory Settings Optional Settings Check Resul	It Display
Soflware Lifecycle Manager	
User: j2ee_admin	Oheeli
Communication wode.	
System Name Select which you want to cl	heck
Check everything	
Mail Recipient O Check only connect	tions to SMP and storage controller connection
SMTP Server: O Check non connect	tion related configurations
Sender Address:	
Receiver Address:	
Software Logistics Controller	
Check System ID Database Host SLC Host OS User Proxy Us	ser SMP User
XIP simtest simtest xtpadm	500058363
SLM pordosol pordosol simadm	S00058363
Software Lifecycle Manager Configura	間 聞 I 智 但 凸 ation Assistan
Mandatory Settings Optional Settings Check Result	t Display
Summary Result	
Check Result: PASSED	
Check Start Date: 2010-08-17_17:49:05	
Check End Date: 2010-08-17_17:50:29	
Display with XML	
Detail	
Description	Status
Check Mail settings	✓
Check Java User on local Engine.	✓
Check Proxy settings for download	✓
Check Proxy settings for web services	✓
Check SMP user and SP web service	✓
Check OS User and SAP Control	✓
Check SLM-SLC connection for system: XTP on host: slmtest	✓
Check OS User and SAP Control	✓
I. I. Ohneyly O. M. O. O. Service efforts for supplement Of M. en. hands and service an	

### 9.1 Activate the BC-SETS for Maintenance Optimizer and SLM

Perform the basic Customizing for SAP Solution Manager before making Maintenance Optimizerrelevant 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 Manage	er: Bas	sic Ca	onfigu	uration									
	Technical	System:	SLM:001	Username: SOLMAN_	ADMIN System	n Type: ABAP							
Overview	I>	1	2	3	4	5	6		7		<b>—</b>		
Initial Configuration	Pr	roject	Import Note	e Installation Check	User Data	Landscape Data	Manual Configuration	Automatio	Configurati	on Comp	plete		
Basic Configuration	Change	<ul> <li>Back</li> </ul>	Continue	Save Execute A	II Execute Sele	cted Refresh							
Managed System Configuration	Help												ſ
<ul> <li>Related Links</li> </ul>				an a fallen da a antida a ta									_
SAP Solution Manager Configuration	SAP SUILL	Jii Manage	n periorna i	the following activities in	automatic connigt	ration. You can exclu	de activities from automati	ic performance.					
Demo Default SAP GUI Settings Central Log Settings SAP Links SAP Service Markeplace SAP Support Portal SAP Help Portal	1. Set th 2. To sta Note: execu 3. After 4. If you 5. For m 6. To per	e Postport art automatic : Automatic ution status configurat automatic ore inform erform activ	ed flag in the tic configuration configuration stable show tion, you can ally configure ation about p vities manual	The Execution Status colur ation, choose Execute AL tion can take a few minuts wis the progress of the be in see messages and other re again, you can specify performing activities man ally, set the Execution Sta	nn, for activities v .L. es. As the activitie ackground proces er detailed informa y in a dialog windd ually, click on Dis atus to Manual, go	which the system shou es run in a background s. ation for a selected aut ow whether the system play in the IMG Docum to the activity via the	Id not yet perform. The sy process, you must choos omatic activity, in the <i>Log</i> m should repeat activities t <i>nentation</i> column. <i>Navigation</i> column, and ec	rstem only automa se Refresh to upd screen area. that have already dit it.	itically configu ate the logs. T been perform	res entries wi he dynamically ed.	th the executi	on status Exec	cute.
	Note: The t	transactio	n can take a	a few minutes.									
	Automatic	e Activitie	s										
	Status	Refresh	Descriptio	ion				1	Navigation	Execution !	Status II	MG Documenta	ation
			Activate #	BC Sets				Star	t Transaction	Execute		<u>Display</u>	
			Activate P	Piece Lists				Star	t Transaction	Execute			
			Activate S	Services				Star	t Transaction	Execute		Display	
			Diagnosti	tics Configuration					Open URL	Execute		Display	
			Prepare E	Business Partner Change				Star	t Transaction	Execute			
			Business	s Partner for SAP Suppor	t					Execute			
			Generate	e Business Partner Scree	in					Execute		Display	
			Schedule	e Background Jobs				Star	t Transaction	Execute		Display	
			Schedule	e Standard Jobs				Star	t Transaction	Execute			
			Connectio	ion to SAP				Star	t Transaction	Execute		Display	
	Selected Acti	ivity: Act	ivate BC Se	ets									
	Log with	64 Mes	sages										
	Print Version   Export 4									Fit			
	Status	Messa	ge						Date =	Time   ⊽	User	Details	
	•	BC Set	SOLMAN40	0_MOPZ_SP18 already a	ctivated				12.05.2010	13:57:58	SOLMAN		
		BC Set	t SOLMAN40	0_MOPZ_001 already act	tivated						SOLMAN		
		BC Set	t SOLMAN40	0_SDESK_BASICFUNC_S	P18 already activ	ated					SOLMAN		
		BC Set	SOLMAN40	0_CHARM_PROXYFACT_	001 already activ	ated					SOLMAN		

### 9.2 Authorization Configuration for Maintenance Optimizer

1. Log in to your managing SAP Solution Manager system, to assign the authorizations for the Maintenance Optimizer.

2. 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

3. 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).

⊡ <u>U</u> sers Edit Goto Information Environment System <u>H</u> elp
8 🖉 🔄 🛠 🕄 🖓 😓 🖓 😓 🖓 🖧 🛱 🖓 🖉 🖉 🔮
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 📊 💽 🗎
Reference user for additional rights
St Role Type V Valid Name
SAP MAINT_OPT_ADMIN     D     17,31.12,Role for Maintenance Optimizer - Administrator

### 9.3 S-User Assignment for Maintenance Optimizer

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

More information about multiple customer numbers: SAP Note 1151450

2	<u>[able View</u> <u>E</u> o	lit <u>G</u> oto	Selectio	on <u>U</u> tili
0	}			ا 📙 ۱
С	hange Vi	ew "SA	AP Su	ippor
۶	New Entries		le 10	
8	SAP Support Po	irtal Contai	t Persor	n Assigr
	Jser	Contact P	erson	
]	(822937	5836341		
	823057	5836341		
	001 MRP27417	5926241		

PAL_MBP27417 5836341 SAPSUPPORT 5836341	1823057	5836341	
SAPSUPPORT 5836341	PAL_MBP27417	5836341	
	SAPSUPPORT	5836341	
SULMAN_AUMIN S836341	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</sid>	CDD	write
	Windows NT	SAPService <sid></sid>	CDD	write
	Linux/UNIX	<sid>adm</sid>	TD	write
	Windows NT	SAPService <sid></sid>	TD	write
Managed System	Linux/UNIX	<sid>adm</sid>	CDD	read
	Windows NT	SAPService <sid></sid>	CDD	read
	Linux/UNIX	<sid>adm</sid>	TD	write
	Windows NT	SAPService <sid></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.

Folders ×	Name 🔺	Size Type	Dat	e Modified
Folders     ×       Image: Construction of the state of the	Name A Sap Properties General Sharing Security Permissions for saplo Share Permissions Broup or user names: Administrators (S SAPServiceXTF Permissions for SAPS Full Control Change Read	Size Type	Date           83           ? ×           iir)           Deny           Deny	<u>e Modified</u> [2010 7:06 PM
🥑 Recycle Bin	[	OK Cancel	Дариу	

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 =>

Maintenance Optimizer Transaction 0000000070	S-User \$0005836341
Priority: * 3: Medium 💌   Description: * New Maintenance Optimizer Transaction	More Fields
Image: Constraint of the sector of the se	
Back Continue Save Close Withdraw Operations Log (0) Documentation	
Enter Basic Data	
Enter the basic data. Then choose "Continue" to go to the next step. Solution: SAP Solution V Product Version: SAP SOLUTION MANAGERV Product System V XTP	
Maintanana Ontimian Tana dia 2022222	
	S-User 50005836341
Phorty: * [3: Nedum 💌 ] Description: * [New Mantenance Uptimizer Transaction	More Fields
Image: Plan Maintenance     Select Files     Download Files     End Maintenance	
Back Continue Save Close Withdraw Operations Systems Log (6) Documentation	
Choose File Selection Mode	
Choose how the files are to be selected and downloaded. Calculate Files Automatically - Recommended Maintenance Optimizer will check your system landscape, calculate all the needed files, and confirm them in download basket. C Select Files Manually Select the files and confirm them in download basket manually.	
Maintenance Optimizer Transaction 0000000070	S-User   \$0005836341
Priority: * 3: Medium 💌   Description: * New Maintenance Optimizer Transaction	More Fields
Image: Plan Maintenance     Select Files     Download Files     Implement     End Maintenance	
Back Continue Save Close Withdraw     Operations Systems Log (6) Documentation	
Update Options	
Select update option for SAP SOLUTION MANAGER 7.0 EHP 1.	

laintenance Optim	izer Tra	nsaction 000000	0070			S-User S0005836341
ity: * 3: Medium 🔽   Description:	* New Mainten	ance Optimizer Transaction				More Field
4 2						
Plan Maintenance Select Files	Choose	Stack Confirm Target	Select OS/DB-Dependent Files	Select Stack-Independent Files	Select Stack-Dependent Files	-+
Back Continue Save Close	Withdraw					
Operations Systems Log (6	i) Documen	tation				
elect Target						
arget stack: * 24 (06/2010) V Sta	ack Details					
aintonance Ontin	inon Tro	neastion 000000	0070			1.0.11 000050000.44
x: * 3: Medium	* New Mainten	ance Optimizer Transaction	0070			More Field
Dian Maintenance Select Files	2.1	2.2	2.3 Salast OS/DR Dependent Files	2.4 Solast Stack Independent Film	2.5 Salast Stack Descedant Film	
Plan Maintenance Select Files	Choose 3	Confirm Target	Select OS/DB-Dependent Files	Select Stack-Independent Files	Select Stack-Dependent Files	
lack Continue 🕨 Save Close	Withdraw					
Operations Systems Log (6	i) Documen	tation				
onfirm Major Target						
dating the product systems selected in	step 1 "Plan Main	tenance" may affect these technical s	systems.			
eck the target constellation for each te	chnical system af	fected and confirm by continuing to the	e next step.			
chnical Systems	Deed	int Svetem				
System Name System Type Databa	se Server Syste	em Name Product Version	Stack Level Layer			
TP JAVA+ABAP simtest	XTP	SAP SOLUTION MANAGER	R 7.0 EHP 1 24 (06/2010) Standalone			
		SAP EHP1 FOR SAP NETW	EAVER 7.0 06 (02/2010) NetWeaver			
This entry will be changed This e	ntry will be create	d				
• • • • • •	• –					
aintenance Optim	izer Tra	nsaction 000000	0070			S-User   \$0005836341
aintenance Optim	izer Tra * New Mainten	nsaction 000000 ance Optimizer Transaction	0070			S-User   S0005836341 More Field
y: * 3: Medium	izer Tra * New Mainten	nsaction 000000	0070			S-User S0005836341 More Field
y: = 3: Medium v   Description:	izer Tra * New Mainten 2.1	Insaction 000000	23 Salect 0.508 Dependent Eller	2.4 Salet Stark Independent Eller	2.5 Salari Stark Dependent Eller	S-User S0005836341 More Field
aintenance     Optimi       y: * 3. Medium     I       1     2,,       Plan Maintenance     Select Files	izer Tra * New Mainten 2.1 Choose S	nsaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target	2.3 Select OS/D8-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User   S0005836341 More Fiek
Aintenance Optim y: * 3. Medium v   Description 1 2, 2, Plan Maintenance Select Files Back   Continue ) Save   Close	izer Tra * New Mainten 2.1 Choose S Withdraw	nsaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User   50005836341 More Fiel
Aintenance Optimi y: * 3. Medium V   Description: 1 2u Plan Maintenance Select Files Back   Continue ) Save   Close Deperations   Systems   Log (6)	izer Tra * New Mainten 2.1 Choose S Wthdraw	nsaction 000000 ance Optimizer Transaction 2.2 tack Confirm Target	2.3 Select OS/D8-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User   50005838341 More Fiel
Aintenance Optimi 3. Medium V   Description 1. 2. 2. Plan Maintenance Select Files Sack Continue Save Close Operations Systems Log (d) Description Files	izer Tra * New Mainten 2.1 Choose S Wthdraw i) Documen	Insaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005838341 More Fiel
Aintenance Optimi y: = 3: Medium I Description 1 2, 2, 2 Plan Maintenance Select Files bperations Systems Log (6 elect OS/DB-Dependent Files when elected 5 (file)	izer Tra * New Mainten 2.1 Choose S Withdraw	nsaction 000000 ance Optimizer Transaction [2:2] tack Confirm Target tation	2.3 Select OS/08-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005836341 More Fiel
Aintenance Optim y: = 3: Medium  Description: An Maintenance Select Files Sack Continue Systems Log (f elect OS/DB-Dependent Files bu have selected 5 file(s). SB-Dependent Files	izer Tra * New Mainten 2.1 Choose S Wthdraw Documen	nsaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4   Select Stack-Independent Files	2.5   Select Stack-Dependent Files	S-User 50005836341 More Fiel
Aintenance Optimi y: * 3: Medium Description: Plan Maintenance Select Files Back Continue Select Files Back Continue Systems Log (6 Close Dependent Files bu have selected 5 file(s). SDB-Dependent Files Expand All Collapse All Select.	izer Tra  * New Mainten 2.1 Choose S Withdraw  Documen	Insaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User   50005836341 More Fiel
Aintenance Optimi y: = 3: Medium I Description: Plan Maintenance Select Files Mack   Continue Systems Log (6 Dependent Systems Log (6 elect OS/DB-Dependent Files Systems Stepsendent Files Expand Al Collapse All Select, ite Name	izer Tra New Mainten 2.1 Choose S Withdraw Documen All Deselect All Version	Insaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User   50005836341 More Fiek
Aintenance Optimi y: * 3: Medium  Description: Plan Maintenance Select Files Mack   Continue Save   Close Deprations   Save   Close Deprations   Systems   Log (C elect OS/DB-Dependent Files Du have selected 5 file(s). SIDB-Dependent Files Expand All   Collapse All   Select. Ne Name AVK 64bt	izer Tra New Mainten (2.1 Choose S Withdraw ) Documen All Deselect All Version	Insaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005836341 More Fiel
Antenance Optimi () () () () () () () () () () () () () (	izer Tra izer Tra 2.1 Choose S Withdraw ) O Documen All Deselect All Version	Insaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005836341 More Fiel
Aintenance Optimi () () () () () () () () () () () () () (	izer Tra izer Tra 21 Choose S Withdraw Documen All Deselect All Version	Insaction 000000 ance Optimizer Transaction [2:2] tack Confirm Target tation	2.3 Select 05/08-Dependent Files	2.4 Select Stack-Independent Files	[2.5] Select Stack-Dependent Files	S-User 50005836341 More Fiel
Aintenance Optimi (************************************	izer Tra Wew Manten 2.1 Choose 2 Withdraw Documen All Deselect All Version	nsaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005836341 More Fiel
Aintenance Optimi (1) 2, 2) Description: 1 2, 2) Description: 1 2, 2) Plan Maintenance Select Files lack Continue S Systems Log (# 2) Deparations Systems Log (# 2) Systems Log (# 2) Deparations Systems Log (#	izer Tra Version	Insaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4   Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005836341 More Fiel
Aintenance Optimi y: * 3: Medium Description: Plan Maintenance Select Files Back Continue Systems Log (6 Operations Systems Log (6 Continue Systems Log (6 Dependent Files Expand All Collapse All Select : Ile Name AX: 64bit HP-UX on IA-RISC 64bit HP-UX on IA-RISC 64bit Linux on IA-23 22bit Linux on IA-24 22bit Linux on IA-24 22bit Linux on IA-24 22bit Linux on IA-24 22bit	izer Tra Version	Insaction 000000	2.3 Select OS/DB-Dependent Files	Z4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User S0005836341
Aintenance Optimi aintenance Optimi Plan Maintenance Select Files ack Continue Save Close Operations Systems Log (C Dependent Files Expand All Collapse All Select I HAUS on IA84 64bt HP-UX on IA84 64bt HP-UX on IA84 64bt Linux on IA32 32bt Linux on A28, 64 64bt Linux on NA28, 64 64bt	izer Tra izer Tra 2.1 Choose S Withdraw i C Deselect All Version	Insaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target tation ] Description	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	I S-User S0005836341 More Fiel
Aintenance Optimi aintenance Optimi Plan Maintenance Select Files ack Continue Salect Files ack Continue Salect Os Close Operations Systems Log (C Obe-Dependent Files Expand All Collapse All Select MP-UX on IA64 64bt HP-UX on IA64 64bt HP-UX on IA64 64bt Linux on IA64 64bt Linux on AA84 64bt Linux on AA84 64bt Linux on Sale 64bt Linux on Sale 64bt Linux on Sale 64bt Linux on Sales 64bt Costion	izer Tra izer Tra 21 Choose S Withdraw Deselect All Version	nsaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005836341 More Fiel
Aintenance Optimi 3. Medium  3. Description: 1. 2., Plan Maintenance Select Files ack Continue  3. Systems Log (2 Select OS/DB-Dependent Files but ave selected 5 file(s). 5/DB-Dependent Files Expand All Collapse All Select. Be Name ADX 64bt 4.PL/Ux on IAA6 64bt 4.PL/UX on IAA66 64bt 4.PL/UX on	izer Tra izer Tra 21 Choose S Withdraw i) Deselect All Version	nsaction 000000 ance Optimizer Transaction [2:2] tack Confirm Target tation	COTO	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	I S-User S0005836341 More Field
Aintenance Optimi (************************************	izer Tra Wew Manten (2.1 Choose 2 Withdraw ) Documen All Deselect All Version	nsaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	I S-User S0005836341 More Fiel
Aintenance Optimi (1) Description: (1) Continue Description: (1) Continu	izer Tra Version	nsaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation	COOTO	2.4	2.5 Select Stack-Dependent Files	S-User 50005836341 More Fiel
Aintenance Optimi y: * 3: Medium Description: Plan Maintenance Select Files back Continue Select Files back Continue Systems Log (6 Continue Systems Log (6 Cose Deparations Systems Log (7 Collapse All Select. SDB-Dependent Files Expand All Collapse All Select. BADK 64bit HP-UX on IA48 64bit HP-UX on IA48 64bit Linux on ISPIRE 64bit Solaris on SPARC 64b	izer Tra (Lew Manten 2.1 Choose S Withdraw ) Documen All Deselect All Version	nsaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation Description	2.3 Select OS/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User S0005836341
Antenance Optimi 3. Medium I Description I 2, 1 Plan Maintenance Select Files Sack Continue Save Close Operations Systems Log (C elect OS/DB-Dependent Files Du have selected 5 file(s). SIDB-Dependent Files Expand All Collapse All Select. In Name ADX 64bt HP-UX on IA64 64bt HP-UX on IA64 64bt HP-UX on IA64 64bt Linux on IA64 64bt Linux on Power 64bt Linux on Power 64bt Solaris on SPARC 64bt Solaris Server on IA32 32bt Windows Server on IA32 454bt Windows Server on X64 64bt	izer Tra izer Tra [1] Choose S Withdraw] ] Coselect All Version	nsaction 000000 ance Optimizer Transaction  2.2 tack Confirm Target tation  Description	COTO 2.3 Select 05/08-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	I S-User S0005836341 More Field
Aintenance Optimi () () () () () () () () () () () () () (	izer Tra izer Tra [21] Choose S (Withdraw) Documen All (Deselect All Version	nsaction 000000 ance Optimizer Transaction [2:2] tack Confirm Target tation Description	COTO 2.3 Select 05/08-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	I S-User S0005836341 More Field
Aintenance Optimi () Secondary () Secondary	izer Tra Version	nsaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation Description	2.3 Select 05/DB-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005836341 More Field
aintenance Optima y: * 3: Medium  Description: An Maintenance Select Files Sack Continue  Select Files Sack Continue  Systems Log (f elect OS/DB-Dependent Files DB-Dependent Files Expand A1 Collapse A1 Select. SIB-Dependent Files Expand A1 Collapse A1 Select. Site Name AX 64bt HP-UX on IA-64 64bt Linux on PA-RISC 64bt Linux on PA-RISC 64bt Linux on SPARC 64bt DS/400 Solaris on SPARC 64bt Solaris on SPARC 64bt Solaris on SPARC 64bt Solaris on SPARC 64bt Mindows Server on IA-32 32bt Windows Server on IA-32 42bt Windows Server on IA-34 64bt Windows Server on IA-34 64bt Windows Server on X4-64bt Windows Server on X4-64bt DB2/390	izer Tra ize	nsaction 000000 ance Optimizer Transaction [2,2] tack Confirm Target tation Description	COTO	Z4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	I S-User S0005836341 More Fiel
Antenance Optimi 3. Medium 1 Description 1 2. Description 2. Select Files Sack Continue Select Files Sack Continue Select Files Sack Continue Select Ost 2. Sole Dependent Files Expand All Collapse All Select 3. DB-Dependent Files Expand All Collapse All Select 3. HP-UX on IA84 64bt 4. HP-UX on IA84 64bt 4. HP-UX on IA84 64bt 4. HP-UX on IA84 64bt 4. Linux on IA82 32bt 4. Linux on IA84 64bt 4. Linux on Series 64bt 5. Diaris on SPARC 64bt 5. Solaris on SPARC 64bt 5. Solaris on SPARC 64bt 5. Solaris on SPARC 64bt 5. Solaris on SPARC 64bt 5. Windows Server on IA32 32bt 5. DB2/400 5. DB2/400 5. DB2/400	izer Tra izer Tra [21] Choose S (Withdraw) ) Coursen All Deselect All Version	nsaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target tation ] Description	COTO 2.3 Select OS/DB-Dependent Files	Z.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User S0005836341 More Field
Antenance Optimi 3. Medium 1 Description 1 2, 1 Plan Maintenance Select Files Select Files Sack Continue Systems Log (C Select OS/DB-Dependent Files Dependent Files Expand Al Collapse All Select 1. Dux on IA64 64bt 1. HP-UX on IA64 64bt 1. HP-UX on IA64 64bt 1. HP-UX on IA64 64bt 1. Linux on DA-RISC 64bt 1. Linux on DA-RISC 64bt 1. Linux on Series 64bt 0. Solaris on SPARC 64bt 1. Windows Server on IA32 32bt 1. Windows Server on X64 64bt 1. Windows Server on X64 64bt 1. DB2 UDB 1. DB2/400 1. DB2/400 1. DB2/400 1. MS SOL SERVER	izer Tra izer Tra (Lew Manten (21) Choose S Withdraw Deselect All Version	nsaction 000000 ance Optimizer Transaction [2.2] tack Confirm Target tation ] Description	COTO 2.3 Select 05/08-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	I S-User S0005836341 More Field
aintenance Optimi 3. Medium  1 Description: Plan Maintenance Select Files Sack Continue  Select Files Sack Continue  Systems Log (C Sack Continue  Systems Continue  Systems Continue  Sock Continue  Sock Continue  Systems	izer Tra	nsaction 000000 ance Optimizer Transaction [2:2] tack Confirm Target tation Description	COTO 2.3 Select 05/08-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	I S-User S0005836341 More Field
aintenance Optimi y:  2. Medium Description: Plan Maintenance Select Files Sack Continue Systems Log (2 Back Continue Systems Log (2 Continue Systems Log (2 elect OS/DB-Dependent Files tou have selected 5 file(s). SDB-Dependent Files Expand All Collapse All Select. File Name All Collapse All Select. HP-UX on HA48 64bt HP-UX on HA48 64bt HP-UX on HA48 64bt HP-UX on HA48 64bt HP-UX on PA-RISC 64bt Linux on X86,64 64bt Linux on X86,64 64bt Unux on X86,64 64bt Unux on X86,64 64bt Solaris on SPARC 64bt Solaris on X86,64 64bt Windows Server on IA32 32bt Windows Server on IA48 64bt Windows S	izer Tra ize	Instaction 000000	2.3 Select 05/08-Dependent Files	2.4 Select Stack-Independent Files	2.5 Select Stack-Dependent Files	S-User 50005836341 More Field

writy: * 3: Medium i Description: * New Mantenance Optimizer Transaction         1       2,       2.1       2.2       2.3       2.4       2.5         Plan Maintenance       Select Files       Choose Stack       Confrm Target       Select OS/DB-Dependent Files       Select Stack-Independent Files       Select Stack-Independent Files       Select Stack-Independent Files       Select Stack-Independent Files         Back Continue is ave Close VWithdraw       Operations       Systems       Log (6)       Documentation         Select Stack-Independent Files       Log (6)       Documentation       Select Stack-Independent Files       Select Stack-Independent Files         Note: Stack-Independent Files       Expand AI Collapse AI Select AI Description       Add Java Patches       Select Stack-Independent Files         Expand AI Collapse AI Select AI Description       Version       Description       Version       Description         * @ SA SPAM/SANT UPDATE       SPAM/SANT Update - Version 701/0039       Select ContRoLLER 7.00 SP       Patch for SL CONTROLLER 7.00 SP	More Fields
1       2,1       2.2       2.3       2.4       2.5         Pan Maintenance       Select Files       Choose Stack       Confirm Target       Select Os/DB-Dependent Files       Select Stack-Independent Files       Select Stack-Dependent Files         Back       Continue       Save       Close       Withdraw         Operations       Systems       Log (6)       Documentation         Select Stack-Independent Files         Select Stack-Independent Files         Select Stack-Independent Files         Select All Collapse All         Select All Collapse All         Description         V Stack-Independent Files         Expand All Collapse All         Select All Description         V Stack-Independent Files         Expand All Collapse All       Add Java Patches         File Name       Version       Description       Version 701/0039         V Sta CONTROLLER       Version 701/0039       SAR       SPAM/SANT UPDATE 70         V Dup_28-20002665 SAR       SL CONTROLLER 7.00 SP       Patch for SL CONTROLLER 7.00 SP	-•
1     2,     2.1     2.2     2.3     2.4     2.6       Pan Maintenance     Select Files     Choose Stack     Confirm Target     Select OS/DB-Dependent Files     Select Stack-Independent Files     Select Stack-Dependent Files       Back     Continue     Save     Close     Withdraw       Operations     Systems     Log (6)     Documentation   Select Stack-Independent Files  File Name     Version     Description    File Name Version Description  Spatial Select All Collapse All Select All Desception  Select Stack Independent Files  File Name Version Description  Select Stack Independent Files  File Name Version Description  Select Control LER 7.00 Patch for SL CONTROLLER 7.00 SP  All Collapse Continuizer: Transaction 00000000070  Taintenance  Select Transaction 00000000070  Select Stack Independent Files  Select Optimizer Transaction 0000000070  Select Stack Independent Files  Select Stack Inde	-•
Back Continue is     Save Close     Withdraw       Operations     Systems     Log (6)     Documentation       Select Stack-Independent Files     Stack-Independent Files     Stack-Independent Files       Expand All Collapse All     Select All Deselect All     Add Java Patches       File Name     Version     Description       VOID Select All Collapse All     Select All Deselect All     Add Java Patches       File Name     Version     Description       Viol Lup_28-2002695 SAR     SL CONTROLLER 7.00     SPAIMSAINT Update - Version 7010038	
Back       Continue       Save       Cose       Withdraw         Operations       Systems       Log (6)       Documentation         Select Stack-Independent Files       Expand AII       Coloses AI       Select AI       Add Java Patches         File Name       Version       Description       Version       Description          SAP SPAM/SANT UPDATE       Description       Version 701/0039          S. CONTROLLER       SPAM/SANT UPDATE 7.00       Patch for SL CONTROLLER 7.00 SP	
Operations       Systems       Log (6)       Documentation         Select Stack-Independent Files	
Select Stack-Independent Files	
late: Stack-Independent files are not deployed automatically. You have selected 2 file(s). Select Stack-Independent files Expand AII Collapse AII Select AII Deselect AII Add Java Patches File Name Version Description ▼ SAP SPAINSAINT UPDATE ▼ SL CONTROLLER ▼ ULUP_28-20002895 SAR SL CONTROLLER 7.00 Patch for SL CONTROLLER 7.00 SP Biptenpance Optimizer Transaction 0000000070	
Select Stack-Mependent Files Expand All Collapse All Select All Deselect All Add Java Patches File Name Version Description SPAM/SAINT UPDATE I SPAM/SAINT UPDATE I SPAM/SAINT UPDATE O SLOCUTROLLER LUP_26-20002695.SAR SL CONTROLLER 7.00 Patch for SL CONTROLLER 7.00 SP	
Expand All Collapse All Select All Deselect All Add Java Patches         File Name       Version         Description         DisAs SPAIN/SAINT UPDATE         DisAs SPAIN/SAINT UPDATE         DisAs Collapse All Select All Deselect All Add Java Patches         DisAs SPAIN/SAINT UPDATE         DisAs Collapse All Select All Deselect All Add Java Patches         DisAs Collapse All Select All Deselect All Add Java Patches         DisAs Collapse All Select All Deselect All Add Java Patches         DisAs Collapse All Select All Deselect All Add Java Patches         DisAs Collapse All Select All Deselect All Add Java Patches         DisAs Collapse All Select All Deselect All Add Java Patches         Distribution Collapse All Select All Select All Add Java Patches         Distribution Collapse All Select All Select All Add Java Patches         Distribution Collapse All Select All Select All Add Java Patches         Distribution Collapse All Select All Select All Select All Select All Select All Add Java Patches         Distribution Collapse All Select	
File Name         Version         Description           Image: SPA SPAIN/SAINT UPDATE         Image: SPAIN/SAINT UPDATE         Image: SPAIN/SAINT UPDATE           Image: SPAIN/SAINT UPDATE         SPAIN/SAINT UPDATE         SPAIN/SAINT UPDATE           Image: SPAIN/SAINT UPDATE <td></td>	
✓ SAP SPAINSANT UPDATE        ✓ KD70139.SAR     SPAINSANT UPDATE 701       SPAINSANT UPDATE     SPAINSANT Update - Version 7010039       ✓ SL CONTROLLER     SPAINSANT Update - Version 7010039       ✓ LUP_28-20002895 SAR     SL CONTROLLER 7.00       Patch for SL CONTROLLER 7.00     Patch for SL CONTROLLER 7.00 SP	
SLCONTROLLER SLCONTROLLER UUP_28-20002895 SAR SL CONTROLLER 7.00 Patch for SL CONTROLLER 7.00 SP Inintenance Optimizer Transaction 0000000070	
CUUP_28-20002895.SAR SL CONTROLLER 7.00 Patch for SL CONTROLLER 7.00 SP	
laintenance Ontimizer Transaction 000000070	
aintenance Ontimizer Transaction 000000070	
	S-User S0005836341
ty: * 3: Medium 💌   Description: * New Maintenance Optimizer Transaction	More Fields
n Mainteance Select Files Choose Stack Confirm Target Select SDB-Dependent Files Select Stack-Independent Files Select Stack-Independent Files	-•
ack   Contrue a Save   Cose   Withdraw	
perational systems Log (6) Documentation	
elect Stack-Dependent Files	
ote: It is not recommended to deselect any files.	
Stack-Dependent Files	
Expand All Collapse All Select All Add Java Patches	
File Name Version Description	
▼ V JABAP	
▶ I PLBASIS	
aintenance Optimizer Transaction 0000000070	S-User S0005836341
ty: * 3: Medium 💌   Description: * [New Maintenance Optimizer Transaction]	More Fields
1 2, 21 22 23 24 25	
Plan Maintenance Select Files Choose Stack Confirm Target Select OS/DB-Dependent Files Select Stack-Independent Files Select Stack-Dependent Files	*
tark Continue IN Save Close Withdraw	
persona oyatema coyto) coounension	
elect Download Tool	
elect the tool to download files.	
Software Lifecycle Manager     The selected files will be downloaded directly via Software Lifectel Manager(SLM)	
Download Basket	
The selected files will be put into your download basket.	
M working below	
y: * 3: Medium 💌   Description: * New Maintenance Optimizer Transaction	More
1     2     3     4     5     I       Plan Maintenance     Select Files     Download Files     Implement     End Maintenance	
Back Costinue N Saus Close Withdraw	
Back Continue Save Close Withdraw Operations Systems Log (6) Stack Files Documentation	

 X Cancel Download
 Notes for single system update

 Technical System
 Database Host
 Phase
 Status
 Progress
 Message

SLM pordosol download RUNNING 5% []The download is running.

Back Continue Save Close Withdraw

File Edit View Favorites Tools Help						
🕜 Back + 🕥 - 🏂 🔎 Search 🎼 Folders 🕞 🍺 🗙 🏟 📰 - 🗊 🗊						
Address 🛅 \\pordosol\saploc\trans\EP5\in 💌 🔁 Go						
Name A Size Type Date Modified						
B         KITL429.SAR         58.672 KB         SAR File         6/9/2010 19:19						
▶ KITL430.5AR 39.116 KB SAR File 6/9/2010 19:21						
Image: Will state         47.185 KB         SAR File         6/9/2010 19:24						
▶ KITL432.5AR 37.818 KB SAR File 6/9/2010 19:26						
▶ KITL433.5AR 77.151 KB SAR File 6/9/2010 19:29						
KITL434.SAR 5.732 KB SAR File 6/9/2010 19:29						
ELMSERVICE07_0-20004805.5CA 53.866 KB WinRAR archive 6/9/2010 19:17						
SMSDXML_INDEX.xml 2 KB XML Document 6/9/2010 19:14						
SMSDXML_XTP_20100906221 4 KB Text Document 6/9/2010 19:14						
SX5DXML_XTP_20100906221 52 KB XML Document 6/9/2010 19:14						

# 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 <u>Maintenance Optimizer: Notes for Single System</u> <u>Update</u>	<b>Description</b> 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	SAP Note regarding the incorrect encryption algorithm for the sapcontrol Web service
SWLIFECYCL 7.0x fixes	
Supported components for update by SLM 7.0x	
<u>SLM 700 - Manual clean up</u>	

For more information, visit the <u>Application Management homepage</u>

# 14. Credits

This guide was based on the SLM Official Documentation.

SLM Official Documentation found in

<u>http://service.sap.com/mopz</u> => <u>How-to guide: How to configure Software Lifecycle Management (SLM)</u> 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, zSeries, 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.