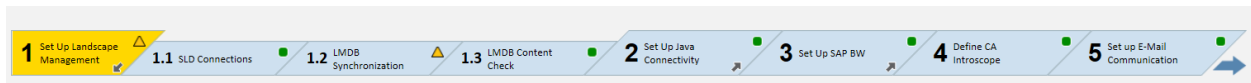


Infrastructure Preparation

Steps:

1. Setup Landscape management
2. Setup java Connectivity
3. Setup SAP BW
4. Define CA introscope
5. Setup Email Communication
6. Configure CRM basics
7. Enable gateway services

1. Set Up Landscape Management



1.1 SLD Connections

In this step you enable SAP Solution Manager to access to the System Landscape Directory (SLD). If SLDs exist, specify all of them to which either managed systems or Diagnostics Agents are connected. If no central SLD exists yet in your landscape, you should set up a local one in the SAP Solution Manager system.

Create new connection → Select new SLD connection according to role available

- Source for LMDB
- Runtime SLD
- PI SLD
- Other

Once selected enter the HTTP destination i.e URL, Communication user and password and then save the details and below screen will appear. You can also add or modify the connections of SLD according to the role available.

SLD Connections

Create New Connection Assign Existing HTTP Destination Delete				
SLD Role	HTTP Destination	URL	User Name	Description
Source for L...	LMDB_SYNCDEST1	http://wdfibmt7255.wdf.sap.corp:51400	solman_admin	SMP SLD

1.2 LMDB synchronization

In this sub-step the Landscape Management Database (LMDB) will be synchronized with the System Landscape Directory (SLD) to collect the following information from the system landscape:

- SAP Software Catalog (CR content)
- CIM Model
- Technical system landscape description

We need to configure the LMDB object server first (If the SLD of SAP Solution Manager is used, please use a prefix "LMDB_" with the host name of SAP Solution Manager as LMDB Object Server Name.) Then save the entry.

Add the synchronization connections between SLD and LMDB with active SLD and the URL details later save it to activate the connection.

Adding a Content Synchronization Connection

Most content in the landscape management database (LMDB) comes from the System Landscape Directory (SLD). In this step, you can add a synchronization connection using an SLD connection (SLD role "Source for LMDB") which is defined in the previous step. One SLD connection can only be used for one synchronization connection.

When you activate it, a full synchronization, followed by the incremental synchronization, is triggered:

- At the first full synchronization, the complete **SAP CR Content** (SAP software catalog), the **CIM model**, and the **system landscape description** are added to the LMDB. You can change the SLD that provides SAP CR Content and CIM model later, but try to **use the correct SLD first time**.
- The incremental synchronization (every 10 minutes) writes new and updated information from the SLD to the LMDB.

Proceed as follows:

1. Define the following parameters for a new synchronization connection:

* Source SLD Connection: LMDB_SYNCDEST1 (http://wdfibmt7255.wdf.sap.corp:51400)

Description: SAP Solution Manager SLD

Source User: sld_cs_user

* Source Namespace: sld/active

* Rank of Source Namespace: 1.000

* Target Namespace: active

* Rank of Target Namespace: 2.000

Check

Save & Activate Save Cancel

LMDB Object Server Configuration

Configure LMDB Object Server

Synchronization Connections between SLD and LMDB

Add	Delete	Activate	Deactivate	Advanced...	Refresh		Status	Description	Source URL	Source Namespace	Target Namespace	Is CR Source
							■	SMP SLD	http://smp-sld-7-50500/sld/crmsg	sld/active	active	✓

This process takes several hours and once the synchronization is done we can see above screen .

1.3 : LMDB Content Check

In this step, you set up the system on which SAP Solution Manager is running. It has to be managed in the landscape management database (LMDB) like any other technical system in the landscape.

- At the same time, automatic checks for the correct setup of the LMDB are run. The AS ABAP stack of SAP Solution Manager is displayed.
- Define the AS Java stack:

If a system ID matching the AS ABAP is found, it is proposed. If not, select an AS Java from the input help.

- Choose *Save and Execute*

SAP Solution Manager System

Application Server ABAP: SMP

Application Server Java: SMJ SMJ


Save and Execute

2. Setup JAVA Connectivity

In these steps, you set up the SAP Solution Manager Java system for inbound and outbound connectivity.

2.1 Define HTTP Connetivity

In this step, you configure the HTTP(S)-based connections of the SAP Solution Manager system.

	Status	Update Needed	Description	Type
		<input type="checkbox"/>	Define HTTP Connectivity	Mandatory
		<input type="checkbox"/>	Enable Connectivity	Mandatory
		<input type="checkbox"/>	Diagnostics Agent Authentication	Mandatory

The information is used to configure the internal Web Service calls performed between SAP Solution Manager ABAP and Java stack and from Diagnostics Agents to SAP Solution Manager Java stack.

SAP Solution Manager Connectivity

Go to Advance Mode
Test Connectivity

☐ Use Load Balancer / SAP Web Dispatcher

ABAP Application Server

ICM for External Access: http://[redacted]7.corp.capgemini.com:8000 SMP

ICM for Internal WS Access: http://[redacted]7.corp.capgemini.com:8000

Java Application Server

ICM for External Access: http://[redacted]5.corp.capgemini.com:50500 SMJ See Selection









ICM for Internal WS Access: http://[redacted]5.corp.capgemini.com:50500 HTTP

Message Server: http://[redacted]50100

2.2 Enable Connectivity

In this step, you check and set up the SAP Solution Manager Java system to support, for example, Web Service calls, Java Connector RFC calls, and single sign-on for Web User Interfaces.

Select the *Execute All* pushbutton to perform all activities automatically.

Automatic Activities				
Show All Logs Execute All Execute Selected Refresh				
	Status	Updates Needed	Activity	Type
		<input type="checkbox"/>	Update HTTPURLLOC Table	Mandatory
		<input type="checkbox"/>	Check User Management Engine Settings	Mandatory
		<input type="checkbox"/>	Check Java Software Prerequisites	Mandatory
		<input type="checkbox"/>	Create Logical Ports	Mandatory
		<input type="checkbox"/>	Create RFC Connectivity (WEBADMIN)	Mandatory
		<input type="checkbox"/>	Set Up Single Sign-On	Mandatory
		<input type="checkbox"/>	Turn Off Maintenance Mode	Mandatory
		<input type="checkbox"/>	Run Java Upgrader	Mandatory

2.3 Diagnostics Agent Authentication

In this step, you configure the connections between the Diagnostics Agents and SAP Solution Manager.

Diagnostics Agents Connections

[Manage Agents](#)
[Refresh Counters](#)

Authenticated Diagnostics Agents: 4

Unauthenticated Diagnostics Agents: 1

Agent Authentication Root Certificate

[Generate](#)
[Upload](#)

Certificate Algorithm: RSA

Certificate Key-Length: 1024




Expiring on: 01.01.2021 12:49:17

Agentadmin:

<http://<hostname:port>/smd/AgentAdmin>

3. Set up BW

In this section we set up SAP BW to be used for reporting.

	Status	Update Needed	Description	Type
		<input type="checkbox"/>	Confirm SAP BW	Mandatory
		<input type="checkbox"/>	Maintain Users	Mandatory
		<input type="checkbox"/>	Enable SAP BW	Mandatory

3.1 Confirm SAP BW

SAP NetWeaver Business Warehouse (BW) provides important reporting functions to the various SAP Solution Manager Scenarios, such as Root Cause Analysis, IT performance reporting and change analytics.

There are three different options to specify the SAP BW system. Select the option relevant for your system setup.

Specify SAP BW System.

Set time zone for Sap Business Information Warehouse (BW). All data will be stored with this time zone.

Specify SAP BW System

Standard SAP Solution Manager BW Environment is active.

Advanced Settings

SAP recommends that you use the standard SAP Solution Manager BW environment, in the current client of the SAP Solution Manager system.

You cannot make changes later without help from SAP, as BW data is stored with client and system-specific keys.

Caution:

If you do not follow this recommendation, you confirm that you have been advised to do so by experts, due to your planned use cases and landscape, and that you are aware of and understand the implications of operating SAP Business Information Warehouse in a separate client or system.

☒ Use Standard SAP Solution Manager BW Environment

☐ Use SAP BW in Separate System or Separate SAP Solution Manager Client [\[1\]](#)

BW Time Zone

In this section you set the time zone for SAP Business Information Warehouse (BW). All data in SAP BW will be stored with this time zone.

Recommendation

Use the same time zone for your SAP Solution Manager and your BW.

Warning

Do not change the BW time zone, if there is already data stored in the BW system. If you do so, it will cause severe data inconsistencies and can lead to short dumps during report execution.

* BW Time Zone:

3.2 Maintain users

Set In this step, you create or update dialog, technical (of type System) or BW users, and assign roles to them, depending on the scenario and step

User **SM_BOC** is used to acquire data from BW queries (for ex: Incident management and Test management) so that end users can view related queries in business cloud objects.

User **SM_BW_ACT** is used to activate BI content for individual scenarios, such as incident management, data volume management, or Enterprise Support reports in transaction SAP Solution Manager Configuration.

SM_BW_ACT Technical User (in BW system)

■ User SM_BW_ACT exists with the recommended roles

Action:

☐ Accept Manually Created User Without Checking Role Assignments

User:

Password:

Repeat Password:

Required Roles

Automatic Action	U...	Delivered SAP Source Role	Copy from SAP Role	Role Scope	Start Transact...	Role Descri...
Do nothing	<input type="checkbox"/>	SAP_BI_E2E	ZSAP_BI_E2E	BW	Display	Display

3.3 Enable SAP BW

This step activates the BW component in SAP Solution Manager system automatically. **Note:** The execution of the activities can take a few minutes. Choose Execute All to start the activity.

Automatic Activities

	Status	Updates Needed	Activity	Type
	■	<input type="checkbox"/>	Activate BW Source System	Mandatory
	■	<input type="checkbox"/>	Maintain RFC from BW to SAP Solution Manager	Mandatory
	■	<input type="checkbox"/>	Store BW Settings	Mandatory
	■	<input type="checkbox"/>	Customizing the BW Read Access	Mandatory

4. Define CA introscope

Install WilyAgent/CA Introscope Enterprise manager having version 10.1 or higher as recommended for solman 7.2. It would be installed in following path
/usr/sap/ccms/apmintroscope

Note : For the installation details and procedure : check SAP note 2285189 and 797147

After you installed an Enterprise Manager, the connection needs to be maintained between the Enterprise Manager and the SAP Solution Manager.

Select the *Discover Introscope EM* pushbutton:

CA Introscope Enterprise Managers

Host	Port	Version	Type	Status	Capacity
IN-MUM-SAPEP7	6001	10100	Standalone	■	14%

Prerequisite: In the System Preparation scenario you have installed the Diagnostics Agents on all hosts of your CA Introscope Enterprise Manager(s) (EM) and you have connected the


Diagnostics Agents to the SAP Solution Manager. You need to ensure that the user which is running the Diagnostics Agent has read/write authorizations to the Introscope installation directory. Select and maintain the connection user (e.g. *Guest* with the password *guest12*):

Admin with Admin89

<http://<hostname>:8081/webview>

5. Set up Email communication

In this step, you set up the infrastructure that enables SAP Solution Manager to send notifications using e-mail and text messaging (short message service, SMS), and enable e-mail encryption, manually.



Manual Activities				
Show All Logs				
	Status	Updates Needed	Activity	Type
		<input type="checkbox"/>	Enable Mail Encryption for Notification	Optional

6. Configure CRM Basics






In this step, you configure several infrastructure components for SAP Customer Relationship Management (CRM) that is used by the mandatory scenarios in SAP Solution Manager.

- In the Documentation column, choose the *Display* link.
- To perform the activity, choose the link in the *Navigation* column.
- Set the status in the column *Execution Status* to *Performed*.

Manual Activities

Show All Logs				
	Status	Updates Needed	Activity	Type
		<input type="checkbox"/>	Technically Upgrade Products	Mandatory
		<input type="checkbox"/>	Deactivate Creation of BDocs	Mandatory

Automatic Activities

Show All Logs Execute All Execute Selected Refresh				
	Status	Updates Needed	Activity	Type
		<input type="checkbox"/>	Maintain Product ID Length	Mandatory
		<input type="checkbox"/>	Create Hierarchy for Material Products	Mandatory
		<input type="checkbox"/>	Maintain Number Range for Material	Mandatory
		<input type="checkbox"/>	Prepare IBase	Mandatory
		<input type="checkbox"/>	Set Priorities for CRM Transaction Types	Mandatory

For Manual activity :

Display logs

Technical Information

 0
 0
 0
 1
 Help

Typ	Message text
	Upgrade Method from Class CL_CRM_PRODIL_UPGRADE_50 Starting

BY: Harshal Raut and Harini Nittala

SAP Solution Manager creates BDoc messages for the following BDoc types:

- BUPA_MAIN
- BUS_TRANS_MSG
- CRM_IBASE_MESS
- PRODUCT_INDOBJ
- PRODUCT_SRV

Requirements

Check whether your SAP Solution Manager scenarios use BDocs and which BDOcs you want to deactivate.

Activities

- To deactivate the BDoc creation, in the Navigation column, start transaction BDoc Type Customizing: Details (SMW3_00).
- Choose New Entries.
- In Short Name, enter the BDoc type.
- Select Do Not Send.
- Save your entries.

7. Enable gateway services

In this step, you activate SAP Gateway services (OData services), which are **required to enable the SAP Solution Manager Fiori launchpad, SAP Fiori apps, and mobile applications.**

- You need to activate the SAP Gateway services for each of your scenarios.
- **Note:** You can only work with the SAP Solution Manager Launchpad if you have activated the SAP Gateway services *UI BE: Services Model Provider* and *OData Service for GPA document*. If you haven't activated them, the status of this step is red. The OData services for the SAP Solution Manager Launchpad are grouped under the entry with the description *UI BE: Services Model Provider, under Cross Scenario*.

Manual Activities								
Show All Logs								
Status	Updates Needed	Activity	Type	Comment	Navigation	Execution Status	Documentation	
	<input type="checkbox"/>	Activate Launchpad Services	Mandatory			Start Transaction	Performed	Display

Gateway Services for SMP								
<input type="checkbox"/> Select/Deselect all Gateway Services <input type="button" value="Prepare Activation"/>								
List of Gateway Services								
Scenario / Status	To be activated	External Service Name	Description of the Service Group					
▶ Application Operations								
▶ Application Operations/Business Process Operations								
▶ Business Process Operations								
▶ Change Request Management								
▶ Cross Scenario Configuration								
▶ Custom Code Management								
▶ IT Service Management								
▶ Process Management								
▶ Project Management								

8. Complete

Finishing steps can be summeried as below :

Steps					
Configuration Step	Status	Last Changed On	Last Changed By	Description	
▼ Set Up Landscape Management		09.04.2018 19:03:35	SMPCONFIG2	Set Up Landscape Management	
SLD Connections		09.04.2018 16:32:13	SMPCONFIG2	SLD Connections	
LMDB Synchronization		09.04.2018 19:03:35	SMPCONFIG2	LMDB Synchronization	
LMDB Content Check		10.01.2018 15:17:47	SOLMAN_ADMIN	LMDB Content Check	
▼ Set Up Java Connectivity		01.01.2018 12:49:21	SOLMAN_ADMIN	Set Up Java Connectivity	
Define HTTP Connectivity		30.12.2017 22:33:05	SOLMAN_ADMIN	Define HTTP Connectivity	
Enable Connectivity		01.01.2018 12:48:24	SMD_RFC	Enable Connectivity	
Diagnostics Agent Authentication		01.01.2018 12:49:21	SOLMAN_ADMIN	Diagnostics Agent Authentication	
▼ Set Up SAP BW		01.01.2018 13:02:33	SOLMAN_ADMIN	Set Up SAP Business Information Warehouse	
Confirm SAP BW		01.01.2018 12:50:55	SOLMAN_ADMIN	Confirm SAP BW	
Maintain Users		01.01.2018 12:57:34	SOLMAN_ADMIN	Maintain BW Technical Users	
Enable SAP BW		01.01.2018 13:02:33	SOLMAN_ADMIN	Enable SAP Business Warehouse	
Define CA Introscope		21.02.2018 00:53:09	SMPCONFIG2	Define CA Introscope	
Set up E-Mail Communication		07.05.2015 23:37:44	SAMIDESIA	Set up E-Mail Communication	
Configure CRM Basics		01.01.2018 13:06:49	SOLMAN_ADMIN	Configure CRM Basics	
Enable Gateway Services		01.01.2018 14:22:17	SOLMAN_ADMIN	Enable Gateway Services	

Exceptional cases in Modifying LMDB

SAP NOTE : 1816146 - Correction of installed software information Method 1:

- Modify the required product versions in LMDB and upload the same data to the maintenance planner
- Use report RLMDL_DOWNLOAD_INST_SOFT_INFO in solman to get the CISI_stack.xml file for the relevant system
- Run the SUM tool in the affected system with the above generated xml file and get the system product versions corrected

Method 2 :

- Modify the required product versions in LMDB and upload the same data to the maintenance planner
- Verify the data which is uploaded in MP with that of required product versions and download the stack XML file
- Repeat the SUM tool as mentioned in method 1 to change the product versions