User Guide CUSTOMER

Document Version: 1.8 – 2017-03-27

# **Maintenance Planner User Guide**



# **Typographic Conventions**

Type Style	Description
Example	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<example></example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER.
+	Small pieces of useful information provided as tips.

### **Document History**

### Note:

Before you proceed with the steps provided in the user guide, make sure you have the latest version of this document. Click here for the latest version.

Version	Date	Change
1.0	2015-07-10	Initial version
1.1	2015-08-19	System verification enhancement and other minor updates
1.2	2015-11-12	New features: Personalization, delete transaction, and others
1.3	2016-01-10	Minor enhancements
1.4	2016-02-18	Explore system, Java system Installation, user menu, and other enhancements
1.5	2016-07-08	Planning an SAP S/4HANA system and other enhancements
1.6	2016-09-11	Uninstall add-ons not supported during SAP S/4HANA conversion
1.7	2016-12-06	New features: Generate side-effects report, generate stack XML copy, and SAP BW/4HANA system - New installation and conversion
1.8	2017-03-27	View SAP security notes for associated support packages, downloading of Java patches

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# 1 Getting Started

### 1.1 Overview

SAP Solution Manager's cloud-based Maintenance Planner is the successor of Maintenance Optimizer, Landscape Planner and Product System Editor. Maintenance planner helps you plan and maintain systems in your landscape.

You can plan complex activities like installing a new system or updating existing systems. All changes can be scheduled to be deployed at a convenient time, to minimize downtime.

It simplifies the maintenance process by consolidating critical tasks such as definition of product maintenance dependencies, implementing changes by generating stack configuration, downloading archives, and so on, in one tool.

### 1.2 Intended Audience

This guide is intended for technology consultants, system administrators, and IT architects.

# 1.3 Runtime Prerequisites

- 1. You have Google Chrome, Mozilla Firefox or Internet Explorer (version 10 and above) browser in your system.
- 2. Your SAP Solution Manager system has release 7.1 SP5 or above.
- 3. SAP Solution Manager 7.01 SP 23 or above is supported, provided, you have installed SAP Note 1646604. Please note that SAP Solution Manager 7.0 / 7.01 status is "In customer-specific maintenance"

### 1.4 Limitations

Please refer SAP Note 2174410 for the list of Maintenance Planner limitations that is regularly updated.

# 1.5 Prerequisites and Initial Setup

The following prerequisites must be fulfilled before you can use Maintenance Planner:

### 1.5.1 Authorizations

- 1. Ensure that you have an s-user for the SAP Service Marketplace (SMP).
- 2. Your user in SAP Solution Manager must be assigned to your s-user for the SAP Service Marketplace. For more information, see SAP Note 1822202

### 1.5.2 Uploading landscape data into SAP Support Portal

1. You can get started by completing the activity Connecting LMDB to System Landscape Directory (SLD). If you are updating from a release below SAP Solution Manager 7.1 SP05, ensure that you have migrated system information from transaction SMSY to LMDB.

**Apply SAP Note 1646604**: On applying this note on the lower releases of Solution Manager, data is replicated to the customer profile as part of the regular sync job from SMSY.



- See this Blog about initial setup activities.
- o For more information, see Migrating System Information from SMSY to LMDB.
- 2. Installation number and system number are known in both the LMDB and SAP Support Portal.
- 3. Synchronize your technical systems from SAP Solution Manager to SAP Support Portal, in the Technical System Editor in SAP Solution Manager.
  - System Information from LMDB is mapped to Maintenance Planner in the following ways:
- **Periodic update:** Starting Solution Manager 7.1 SP 9, the landscape data is uploaded every day, or at a regular interval configured on LMDB based on the landscape fetch job. If you are using an earlier version of Solution Manager, applying SAP Note 2002546 is strongly recommended.
- **Direct upload**: To manually upload the landscape data from Solution Manager to the customer profile, you can choose the button *Upload to SAP Support Portal*

### Note:

- With Solution Manager 7.1, you do not have to create product systems on LMDB before you choose
   *Upload to SAP Support Portal*. You can create dependencies between your Business Suite Portal Systems
   directly in Maintenance Planner. All existing Product Systems and Technical Systems declared in LMDB
   are synchronized to Maintenance Planner.
- o For dual stack systems, you have to maintain a product system before you upload the system data to the SAP Support Portal.

#### Scenario: High Security Customers and SAP S/4HANA Adoption

- If your organization prohibits external RFC connections (due to security reasons), because of which you do not have an RFC connecting your SAP Solution Manager system to the SAP Backbone systems
- Or if you want to move to SAP S/4HANA,

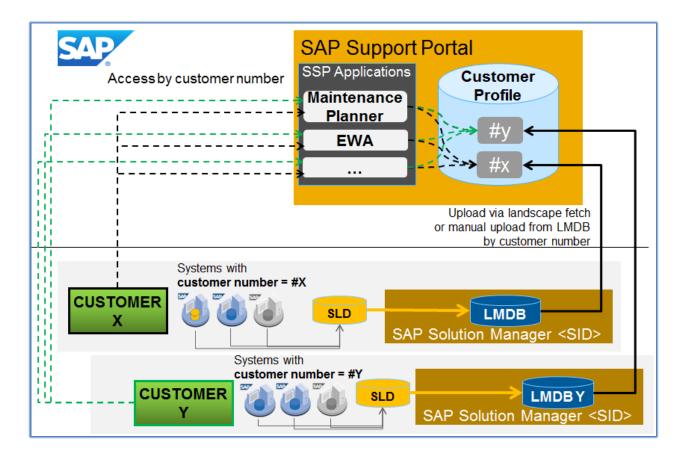
You can use the System Info XML. Refer KB article 2287046 for the detailed steps.

#### See also:

- Blog describing the initial setup activities.
- Blog providing an overview of Maintenance Planner.

### 1.6 Maintenance Process Architecture

The figure below describes the flow of data across SAP Support Portal, Maintenance Planner, and customer landscapes.



- 1. Data is sent to the System Landscape Directory (SLD).
- 2. Data from SLD is synchronized with the Landscape Management Database (LMDB).
- 3. Data from LMDB is uploaded to SAP Support Portal.
- 4. The SID of the uploading SAP Solution Manager is stored with the data.

Only an application using the customer number assigned to the technical system can access system data in the customer profile.

### 1.7 Launching the Maintenance Planner

Maintenance Planner is a hosted application on SAP Support Portal. To access the tool:

- 1. Go to https://apps.support.sap.com/sap/support/mp
- 2. Log in with your SAP credentials (S user)
- 3. One customer number can be assigned to multiple S-users. Use the S-user with the **same** customer number on SAP Solution Manager and SAP Service Marketplace.
- Ensure that S-users you use for Maintenance Planner and the RFC connection with the Online Service System (OSS) are mapped to the same customer number.
- The RFC in the Solution Manager system used to upload the system data to the back end is configured with the back-end as SAP-OSS or a generated RFC beginning with <SM\_SP\_....>

#### Note:

You cannot currently use multiple tabs of the same browser instance.

### 1.8 Introducing Maintenance Planner

With Maintenance Planner, you can plan a new system installation or update or upgrade and existing system. You can analyze the impact on dependent systems and specify the deployment date.



Figure: Maintenance Planner Landing Page

**Explore Systems**: Determines the systems in your landscape. For more information, see Exploring the systems in your landscape.

**Explore System Tracks:** System tracks are groups of technical systems. You can update or upgrade a whole track at one. For more information, see Working with System Tracks.

Transactions: Overview of all the transactions you created, ordered by ID, name, status, and so on.

**Plan for SAP S/4HANA:** Lets you plan a new SAP S/4HANA system or convert an existing SAP ERP system to SAP S/4HANA. For more information, see Planning an SAP S/4HANA System.

**Plan a New System**: Lets you add a new system to your landscape. For more information, see Planning a new system installation.

**Search**: The search field lets you find systems, transactions and tracks. You can search by the name or description of the entity and the result is grouped into systems, and tracks.

**User Info**: You can use the user info drop down on the top right corner to access the following:

- **Personalize**: this is currently available for the *Explore Systems* view, and lets you show or hide certain attributes of a system.
- Logout: Lets you log off Maintenance Planner.

**Help:** You can use the help menu 
on the top right corner to access the following:

- FAQ: Link to a list of frequently asked questions while using Maintenance Planner
- User Guide: Download a pdf of the Maintenance Planner User Guide
- Release Highlights: Provides you with the latest information on what's new in Maintenance Planner

# 1.9 Technical Advantages of Maintenance Planner

The Maintenance Planner is an essential administrative tool that helps you complete a major part of your application lifecycle management. Complex maintenance can be planned and scheduled to be deployed at later date.

With Maintenance Planner, you can:

- Explore all the systems and system tracks in your landscape.
- Plan a new system installation.
- Plan update or upgrade activities for an existing system.
- Group systems into tracks and perform collective maintenance.
- Analyze dependent systems impacted by your change.
- Identify and evaluate changes to the landscape.
- Plan a new SAP S/4HANA system or convert an existing SAP ERP system to SAP S/4HANA.

# 2 Working with Systems

### 2.1 Exploring the systems in your landscape

You can use the Maintenance Planner tool to identify the systems in your landscape.

### Viewing the available systems

- Access Maintenance Planner.
   Go to https://apps.support.sap.com/sap/support/mp and login with your SAP credentials (S-user).
- 2. Choose the *Explore Systems* tile.

The tool displays all the systems in your landscape.

### Personalizing the view

As your landscape grows over time, you may see many systems populated here. You can choose which systems to view and decide on the level of detail using the following features:

- **Filter**: You can quickly filter the list by selecting the field name above the table, and choosing the required values.
- **Fields**: If you can't see all the clickable fields, use the icon to scroll and view the available options.

### Note:

If you are seeing too few fields, please enable the others through the *Personalize* function.

- Sort: Choose the sort 🚺 icon to sort the result list based on the fields or by display order.
- Reset: Choose the reset Icon to clear filters.

### Viewing a particular system details

1. Choose a system by choosing on the System Name. The *Maintenance Planner* opens the maintenance cycle for the system.

The four quadrants indicate the options you have:

Plan: plan a software change on your system, including planning and downloading files.
 See Planning a new system installation

- o **Schedule**: schedule a system deployment of the calculated archives.
- Sync: choose the SAP Solution Manager from which landscape data is to be replicated on Maintenance Planner. This only applies if there are multiple Solution Managers.
   See Synchronize a System

#### Note:

This button is disabled if you have only one SAP Solution Manager mapped to your system.

- Verify: check if the system software description matches the SAP Product Model. In case of issues, correct them. See Verifying an erroneous system
- 2. Choose the system name for more detailed information about the system.

### 2.1.1 Detailed System Information

Clicking the tabs on the left gives you detailed system information, as follows:

**Information**: basic information like the database type, host, and source solution manager

**Software**: software product stack for the system. Example: Product Versions, Product Instances, Software Component Versions.

**Software Components**: the stack level of the software components.

**Dependencies**: the product maintenance dependencies for the selected system.

Tracks: all system tracks available.

# 2.2 Planning a New System Installation

Maintenance Planner helps you plan a new system installation on your landscape.

At the end of this procedure you will be able to generate a *Stack XML* file and delta archives that will contain every detail of the system and the software components. These are used by Software Provisioning Manager for the installation process.

Here is an overview of the maintenance process in the previous and the current scenario:

#### **Process without Maintenance Planner**

- 1. Download initial software load from SMP
- 2. Install system using SWPM
- 3. Register system in SAP Solution Manager

- 4. Choose target product software on Maintenance Optimizer
- 5. Update system using SUM

#### **New process using Maintenance Planner**

- 1. Plan a system change in Maintenance Planner
- 2. Download the Stack XML and the corresponding stack
- 3. Download the initial installation archives from SMP, manually
- 4. Install new system using SWPM
- 5. Update system using SUM

## 2.2.1 Procedure to Install a New ABAP system

Please refer this blog for the process flow of installing a new system using Maintenance Planner.

1. In the Home screen, choose the Plan a New System tile.

The system maintenance cycle is displayed.

2. Choose Plan.

In the Choose System Type dialogue box on the left, the default selection is ABAP.

3. Provide a System ID (SID)

**Optional:** At any point doing the installation, you can name the transaction and save it, for easy identification later.

- 4. Choose from one of the available options for the system you have selected. For example:
  - o Install an SAP NetWeaver system
  - o Install an SAP SCM system
  - o Install an SAP SRM system
  - o Install an SAP CRM system
  - o Install an SAP SOLUTION MANAGER system
  - o Install an SAP ERP system

**Note**: The following installation scenario is not supported on Maintenance Planner:

- o EHP4 FOR SAP ERP 6/0/NW701
- EHP3 FOR SAP ERP 6/0/NW701
- o Install an SAP SFINANCIALS system
- o Install an SAP BW/4HANA system
- 5. Select a target software level to install.
- 6. Follow the on-screen instructions to complete the 4-stage activity, starting with Define change

**Example**: You can choose the target software level, product, product version, stack level, technical usages, and so on.

- 1. **Define change**: Choose the enhancement packages and the target stack level. Optionally, you can also install additional software components like add-ons. See also: Iterative Planning
- 2. **Select Files**: Depending on the software components you have selected, choose the files to be installed. A summary of the selected files are displayed. You can change this by choosing the button *Reselect OS/DB Files*.
- 7. Choose Next.

**Note**: The above steps can be repeated to install additional software. For more information, see Iterative planning

8. **Download Files**: You can download the installation plan by choosing *Download Stack XML* and choose *Push to Download Basket* to download the archives from SAP Service Marketplace.

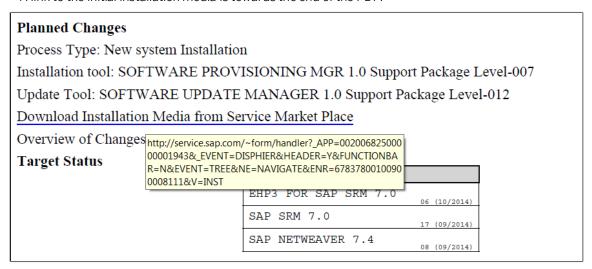
You can also download the maintenance plan as a PDF or a text file from Additional Downloads menu.



Maintenance Planner supports planning of new installations on a desired stack level. With Maintenance Planner, you can plan a target software level and download the *Stack XML* and the installation archives in one step.

- 9. Choose *Next* to move to the last stage of the installation process.
- 10. **Complete**: Choose *Additional Downloads*. You can download the installation plan as a PDF by choosing *Download PDF* or as a spreadsheet by choosing *Export to Excel*.

A link to the initial installation media is towards the end of the PDF.



At this stage, you can choose the button *Set to Complete* to finalize the maintenance transaction and no further changes are permitted. If you wish to perform additional updates, you can choose *Back* and repeat the above steps iteratively.

### 2.2.2 Procedure to Install a New Java System

Please refer this blog for the process flow of installing a new system using Maintenance Planner.

- 1. In the *Home* screen, choose the *Plan a New System* tile. The system maintenance cycle is displayed.
- 2. Choose Plan
- 3. In the Choose System Type dialogue box on the left, choose: JAVA
- 4. Provide a System ID (SID).
- 5. Select a target software level to install.

#### Note

#### In case of SAP S/4HANA 1511 Java technical system setup

If Adobe Document Services needs to be installed along with Enterprise Services Repository, then please choose on "Update NetWeaver" option after choosing "Confirm Selection". Thereafter, select the same Support Package Stack, and choose on the desired instance.

### In case of Process Orchestration system

Choose the following product instances over the NetWeaver installation:

- o Adapter Engine (Java EE)
- o Advanced Adapter Engine Extnd
- Application Server Java
- o BPM and Event Management
- o Composition Platform
- 6. Follow the on-screen instructions to complete the 4-stage activity, starting with *Define change* **Example**: You can choose the target software level, product, product version, stack level, technical usages,

and so on.

1. **Define change**: Choose the enhancement packages and the target stack level. Optionally, you can also install additional software components like add-ons. See also: Iterative Planning

#### Note:

Please check the product specific installation/master guide to check if the desired product to be installed is an Add-On and on which other NetWeaver product instances it is based. Please select these product instances first before selecting the desired add-on under *Install or Maintain Add-on*.

For example, if you would like to install the PI ADAPTERS (Elster/Swift/BCONS), you need to first select the underlying basis instances *Advanced Adapter Engine* or *PI Adapter Engine*, before you can see/select the required adapters in the add-on section.

- Select Files: Depending on the software components you have selected, choose the files to be installed.
   A summary of the selected files are displayed. You can change this by choosing the button
   Reselect OS/DB Files
- 7. Choose Next.

#### Note:

The above steps can be repeated to install additional software. For more information, see Iterative planning

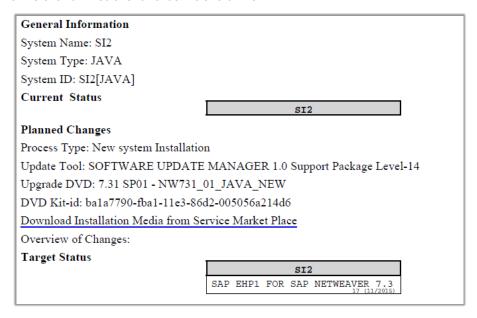
- 8. **Download Files**: You can download the installation plan by choosing *Download Stack XML* and choose *Push to Download Basket* to download the archives from SAP Service Marketplace.
- 9. You can also download the maintenance plan as a PDF or a text file.



Maintenance Planner supports planning of new installations on a desired stack level. With Maintenance Planner, you can plan a target software level and download the *Stack XML* and the calculated archives in one step.

- 10. Choose *Next* to move to the last stage of the installation process.
- 11. **Complete**: Choose *Additional Downloads*. You can download the Maintenance Plan as a PDF by choosing *Download PDF*.

A link to the initial installation media is towards the end of the PDF.



At this stage, you can choose the button *Set to Complete* to finalize the maintenance transaction and no further changes are permitted. If you wish to perform additional updates, you can choose *Back* and repeat the above steps iteratively.

### 2.2.3 Consuming the Stack XML files Using SWPM

Perform the following steps to consume the Stack XML file using Software Provisioning Manager:

- 1. Using the link provided in the Maintenance Plan, download the installation media files.
- 2. Download and extract the latest version of Software Provisioning Manager from the *Download Basket*, and follow the recommendations of SAP Note 1680045.
- 3. Initialize SWPM

Use the following command syntax to call SWPM:

```
<path_to_directory_where_you_extracted_SWPM>/sapinst
SAPINST_STACK_XML=<absolute_path_to_location_of_STACK_XML_file>
```

#### UNIX:

```
./sapinst SAPINST_STACK_XML=/download/Stack_1000001234_20150423.xml
```

#### Windows:

```
sapinst.exe SAPINST STACK XML=C:\tmp\Stack 1000001234 20150423.xml
```

- 4. Follow the instructions in the installation guide:
- Visit https://service.sap.com/instguides
- Browse the left panel, choose the product you are updating, and choose *Installation*.
- In the document list that appears, choose the installation guide and follow the necessary steps. See also: Implementing the landscape changes

### Related documents:

About SUM: http://scn.sap.com/community/it-management/alm/software-logistics/blog/2012/11/07/software-update-manager-sum-introducing-the-tool-for-software-maintenance About Software Provisioning Manager: http://scn.sap.com/docs/DOC-8501

# 2.3 Planning an SAP S/4HANA System

The guided procedure provided in the Maintenance Planner allows you to simulate an installation of a new SAP S/4HANA system or a conversion of an existing SAP ERP system to SAP S/4HANA system.

### 2.3.1 Installing a New SAP S/4HANA System

Proceed with the following steps to install a new SAP S/4HANA system:

- 1. Choose the *Plan for SAP S/4HANA* tile on the *Home* screen. The following 4 stages of planning are displayed on the screen:
  - o Overview
  - Select Backend System

- Select Additional Systems
- o Summary
- 2. On the Overview screen, choose Install a New SAP S/4HANA System.

You can find more information regarding the installation in the link, SAP S/4HANA Installation Guide, provided under the *New Installation Details* section.

- 3. Choose *Next* and enter the following backend details:
  - o New system ID (SID) for the backend
  - Target product version
  - Target stack
- 4. Choose *Next* and enter the additional system details in the following sections:

#### Frontend Server Selection

By default, the *Frontend Server Selection* option is selected. This implies that the SAP Fiori frontend server for SAP S/4HANA is selected for installation. Now, you can choose one of the following radio buttons and enter the required details:

#### Existing System

Allows you to apply SAP Fiori for SAP S/4HANA add-on on an existing SAP NetWeaver system. Enter the details for the target product version, target stack, target product instance, underlying SAP NetWeaver system, and target SAP NetWeaver stack.

#### o Install a New System

Allows you to plan for a new system ID for SAP Fiori frontend server for SAP S/4HANA. Enter the details for the target product version, target stack, target product instance, underlying SAP NetWeaver system, and target SAP NetWeaver stack.

#### o Co-deployed with Backend

Allows you to co-deploy the SAP Fiori for SAP S/4HANA on the backend system selected in step 3. Enter the details for the target product version, target stack, and target product instance.

#### Note

- o The target product instances are automatically displayed once you choose the target stack. By default, the target instances are preselected. Based on your requirement, you can select or unselect the target instances.
- o If you select the option for co-deployment, the Select Underlying SAP NetWeaver and Target SAP NetWeaver Software Stack options are disabled.

### o JAVA Adapter Selection

Choose the option to update the support package stack of existing SAP S/4HANA Java adapter or install a new SAP S/4HANA Java adapter. You should enter the relevant details based on your selection of the radio button.

- 5. Choose *Next*, and you can find the installation procedure details under the *Summary* as follows:
  - o Success message if the installation is successful
  - o Link to the OS/DB product availability matrix
- 6. Choose *Continue Planning* to proceed with the Maintenance Planning procedure. For more information, see Planning a System Update or Upgrade.

# 2.3.2 Converting an Existing System to SAP S/4HANA System

Proceed with the following steps to convert an existing system to SAP S/4HANA system:

### **Prerequisites**

You must check for the following prerequisites:

- The source system must have SPAM at Patch level 59 or higher
- For the SAP Solution Manager, you must have done the following:
  - o Implement SAP Note 2186164
  - o Maintain an RFC destination from the SAP Solution Manager to the source system.

### **Steps for Conversion**

1. On the *Overview* screen, choose **Plan an SAP S/4HANA conversion on an existing system.** 

#### Note

The *Overview* screen also provides you with the following details under the *System Conversion Details* section:

- o Steps involved in the conversion process
- o OS/DB product availability matrix for SAP S/4HANA
- o More information regarding the conversion in the link SAP S/4HANA System Conversion Guide.
- 2. Choose *Next* and enter the following backend system details:
  - o Existing backend server
  - o Current version is retrieved from the customer profile and is displayed on the screen
  - Target product version
  - o Target support package stack
- 3. Choose *Next* and enter the additional system details in the following sections:

#### Note

When you choose the *Next* button, the Maintenance Planner SAP S/4HANA pre-checks are triggered. If the system encounters any failures during the pre-checks, you are directed to the *Summary* screen. Here, you can check for the results of the pre-checks and you can download the pdf that is generated.

#### o Frontend Server Selection

By default, the *Frontend Server Selection* option is selected. This implies that the SAP Fiori frontend server for SAP S/4HANA is selected. Now, you can choose one of the following radio buttons and enter the required details:

Existing System

Allows you to apply SAP Fiori for SAP S/4HANA add-on on an existing SAP NetWeaver system. Enter the details for the target product version, target stack, target product instance, underlying SAP NetWeaver system, and target SAP NetWeaver stack.

o Install a New System

Allows you to plan a new system ID for SAP Fiori frontend server for SAP S/4HANA. Enter the details for the target product version, target stack, target product instance, underlying SAP NetWeaver system, and target SAP NetWeaver stack.

#### o Co-deployed with Backend

Allows you to co-deploy the SAP Fiori for SAP S/4HANA on the backend system selected in step 2. Enter the details for the target product version, target support package stack, and target product instance.

#### Note

- o The target product instances are automatically displayed once you choose the target support package stack. By default, the target instances are preselected. Based on your requirement, you can select or unselect the target instances.
- o If you select the option for co-deployment, the Select Underlying SAP NetWeaver and Target SAP NetWeaver Software Stack options are disabled.

#### JAVA Adapter Selection

Choose the option to update the support package stack of existing SAP S/4HANA Java adapter or install a new SAP S/4HANA Java adapter. You should enter the relevant details based on your selection of the radio button

- 4. Choose Next, and you can find the conversion procedure details under the Summary as follows:
  - o Success message if the conversion is successful.
  - o Download Result button you can generate and download a pdf with the conversion details.
  - o Link to the OS/DB product availability matrix
  - o Maintenance planner pre-checks detail
- 5. Choose *Continue Planning* to proceed with the Maintenance Planning procedure. For more information, see Planning a System Update or Upgrade.

#### Note

- Only for the SAP S/4HANA system conversion scenario, you can download the stack XML along with the software archives from the download basket. Maintenance Planner adds in the required software archives to the download basket including the software archives that were earlier part of the DVDs.
- o Note that for some of the database relevant files, for example, ORAClient, HDBClient, you still have to download them separately as done earlier.
- o You can deselect the language archives during the conversion planning process from the Select Stack File view.

# 2.3.3 Uninstall Add-Ons Not Supported during SAP S/4HANA Conversion

During SAP S/4HANA conversions from SAP ERP systems, there can be scenarios wherein some of the add-ons are not supported and the conversion planning process cannot continue. Maintenance Planner does the following prechecks:

- Checks for any add-ons that are not supported in the target system
- Checks if the add-ons that are not supported can be uninstalled.

#### Note

- If the unsupported add-ons can be uninstalled, the system prompts the end user to continue with the conversion planning process. It also prompts the end user that these add-ons will be uninstalled by the Software Update Manager.
- o If the unsupported add-ons cannot be uninstalled, the end user cannot continue with the conversion planning process.
- o The add-on uninstallation is supported from SUM support package 17 onwards.

During the conversion planning prechecks, the *Maintenance Planner* provides a list of add-on product versions that can be uninstalled and that cannot be uninstalled.

### 2.4 Working with SAP BW/4HANA system

Maintenance Planner allows you to plan a new system installation of SAP BW/4HANA or convert an existing SAP Business Warehouse system to SAP BW/4HANA.

For more information, see Roadmap to SAP BW/4HANA.

(You can also find the roadmap to SAP BW/4HANA document on the Maintenance Planner home screen.)

### 2.4.1 Planning a New Installation of SAP BW/4HANA System

Please refer to the Procedure to Install a New ABAP System for installing a new SAP BW/4HANA system.

# 2.4.2 Converting an Existing SAP NetWeaver System to SAP BW/4HANA

Proceed with the following steps to convert an existing system to SAP BW/4HANA system:

### **Prerequisites**

The existing SAP NetWeaver system has the following product instances:

- SAP BW/4HANA STARTER
- Application Server ABAP

#### Note

You can convert only SAP NetWeaver 7.5 based systems since the SAP BW/4HANA STARTER product instance is available in SAP NetWeaver 7.5 releases but not in lower releases.

### **Procedure**

- In the Home view, choose Explore System. Choose the SAP NetWeaver system that you want to convert to SAP BW/4HANA.
- 2. Choose *Plan* in the maintenance planning cycle.
- 3. In the Define Change view, choose Plan on Conversion to SAP BW/4HANA.
- 4. Choose the product version and the support package stack.

#### Note

The system performs add-on prechecks. If the system encounters any unsupported add-ons, the system displays an error notification and stops the conversion planning to SAP BW/4HANA.

A Conversion Information dialog box appears if the add-on precheck is successful. Choose Continue.

- 5. Choose Confirm Selection.
- 6. Proceed with the on-screen instructions to complete with the other planning steps.
  - Select Files: Depending on the software components you have selected, choose the files to be installed.
     Select OS/DB files. Choose Next.
  - o **Download Files**: You can download the installation plan by choosing *Download Stack XML* and choose *Push to Download Basket* to download the archives from SAP Support Portal. You can also download the maintenance plan as a PDF or a text file. Choose *Next*.
  - o **Complete**: Choose *Additional Downloads*. You can download the Maintenance Plan as a PDF by selecting *Download PDF*.

### 2.5 Product Maintenance Dependency

Product maintenance dependency defines which technical systems and product instances need to be updated and upgraded **together** in the maintenance processes.

Currently, the following dependency scenarios are possible:

From	То
JAVA only System	ABAP Backend systems
ABAP Stand-alone System	PORTAL Systems HANA Systems
Dual Stack System	ABAP Backend Systems

When you try to add a dependent system, Maintenance Planner proposes all possible maintenance dependencies, based on the product versions. For more information, see Defining a product maintenance dependency.

#### Note:

1. The existing dependencies defined in the Product System Editor (PSE) in SAP Solution Manager will be synchronized in Maintenance Planner.

- 2. No business dependencies are supported yet. For example, an SAP ERM and an SAP CRM cannot be added to the same product maintenance dependency.
- 3. In a Business Suite on HANA scenario, ensure that the Business Suite and HANA systems are connected.

### 2.5.1 Defining a Product Maintenance Dependency

#### Procedure:

To define a product maintenance dependency, perform the following steps:

- 1. From the Explore Systems tile, choose a system.
  - The maintenance cycle for the selected system appears
- 2. Choose the system icon in the middle, to view the detailed system information
- 3. Choose Dependencies tab on the left to view existing dependencies
  - A graphic of all the systems directly and indirectly dependent on the selected system, is displayed.
- 4. Choose the 🃝 icon to switch to Edit mode, and choose the 🕀 icon to add a dependent system
- 5. In the Product Maintenance Dependency window, provide the following details of the dependent system to be added, and choose OK:

System: The name of the system

Connect To: The system to which you want to define dependency

**Impact**: Choose the impact of this dependency based on the following logic:

#### Minimal impact

Changes to one system will require minor or no changes to a related system.

A typical use case for this would be defining a minimal impact between an ABAP and a Java system in a customer landscape. Changes to the Business suite ABAP system will have minimum impact on the connected Java system.



Systems in a minimal impact relationship is referred as **Hub** landscape pattern in Technical System Editor of Solution Manager.

### Maximum impact

Changes to one system will require a change to a related system

A typical use case for this would be defining maximum impact between two SAP ERP systems. All related systems must then be updated when one of them is changed.



Systems in a maximum impact relationship is referred as **Sidecar** landscape pattern in Technical System Editor of Solution Manager.

6. Save the changes.

At this point, the changes are saved as a transaction and all dependencies you added will be visible only within this transaction.

**Optional**: For the changes to persist in the system, the transaction must be activated on the SAP Support Portal. These steps are described in the following section.

# 2.5.2 Activating the dependency changes to SAP Support Portal

This section describes the process of activating the product maintenance dependencies on the SAP Support Portal

- 1. Load the transaction you have created as per the section Defining a Product Maintenance Dependency. The maintenance cycle for the transaction is displayed.
- 2. Choose Verify.
- 3. Follow the on-screen instructions to complete the verification process.
- 4. Save the changes.
- 5. Choose the *Activate* button.

This saves the transaction updates to the SAP Support Portal, and the dependencies created will be available during future logins.

### 2.5.3 View and Modify an Existing Maintenance Dependency

To view a dependent system, follow steps 1-5 in the section Defining a product maintenance dependency

To remove a dependent system, follow steps 1-6 in the section Defining a product maintenance dependency and choose the (x) icon. Save your changes when you have made the changes.

You cannot view the type of existing dependencies. Once the dependency is set, Maintenance Planner uses this information to plan an update or upgrade of these systems.

To **change** a dependency, remove the dependent system and add it again with a new dependency declaration.

### Note:

- 1. Dependencies from the Product System Editor in SAP Solution Manager are automatically forwarded to Maintenance Planner.
- 2. Once you change the maintenance dependencies on Maintenance Planner, future sync from LMDB will not override these changes.

# 2.6 Verifying an Erroneous System

Your system may be marked erroneous if the system description does not comply with the SAP product model. You cannot update or upgrade such a system.

Ensure that your system complies with the SAP model.

### 2.6.1 Why is the System Erroneous?

Your system may be erroneous if its description does not comply with the SAP product model.

This can be for one or more of the following reasons:

- The system description shows a different software component than the actual software stack installed on the system.
- The system is modelled incorrectly in LMDB.
- Overlap of data from 2 or more SAP Solution Managers to Maintenance Planner. Read this Blog to know more.
- Product maintenance dependency not verified for this system.
- Example scenario:
  - o An ERP 6.0 system is associated as a dependent system with an ERP 5.0 system.
  - o An ERP 6.0 ABAP backend system is missing a corresponding front end system.
  - The software component version of SAP Basis is 740 but the assigned software product version is EHP1 of SAP NetWeaver 7.3

### Note:

- If you have installed ERECRUIT software component on an SAP NetWeaver system, it needs to be modelled as an SAP ERP system for planning in Maintenance Planner.
- If there are no product systems maintained for the technical system in LMDB which has modelled it as an ERP system, it is possible to model the technical system as an ERP system during the verification step of the Maintenance Planner.

# 2.6.2 Identifying an Erroneous System

In the Home screen, choose the Explore Systems tile.

The tool displays all the systems in your landscape. It also displays the name of the technical system and the system type (ABAP, JAVA, Dual Stack, HANA DB, and so on)



Choose on the search icon, to search for a system by product name or product type.

An erroneous system is indicated in red in the maintenance cycle

An erroneous system is also indicated in red (ERROR) in the table, when you choose the Explore Systems tile.

# 2.6.3 Verifying an Erroneous System

- 1. Choose an erroneous system.
- 2. The system maintenance cycle is displayed.

- 3. In the system maintenance cycle, Choose Verify
- 4. To verify the system, provide the information required to correct the installed software information/details. You can choose multiple options.
- 5. Choose Confirm
- 6. A confirmation is displayed. Choose *Next* to proceed.
- 7. If there are dependent systems, you will be prompted to verify the dependencies. Provide your input.
- 8. When you have verified the system dependencies, choose *Next* to verify dependencies.

The Verify button in the maintenance cycle turns green, indicating that the system is now error free. You can proceed with planning.

A corrective xml, which can be used by Software Update Manager to correct the system description, is created. You can download the *Correction of Installed Software Information* file by choosing *Download Correction File* 

### Example:

The name of the correction file is *MP\_CISI\_9000004639\_20150403.xml*, where *9000004639* is the transaction ID and *20150403* is the date the file was generated.

#### Note

The above steps are only a simulation of the correction of your system. Actual changes are made to your system when you perform the steps in the section Implementing a system change using SUM

9. You can go back and perform other planning activities before you choose *Activate*, so you can perform all your actions within one transaction.

You can choose the



icon at the top-left corner of the screen to return to the maintenance cycle.

The Stack XML generated is then a **consolidated** file containing the following:

- planned system changes
- system corrections
- 10. You can run the verification job in LMDB again, or remove the product system from LMDB and upload to SAP system portal in the Technical System editor.
- 11. Choose Activate.

On activation, the changes are saved on SAP Support Portal and users logging in to the system need not perform the verification steps again.

**Result**: Once you have completed the verification process, your system description complies with the SAP product model.



The automatic verification in Maintenance Planner is always improving. As such, it is a good practice to run through the verification even if the status is displayed as ok (green).

### More Information

- o About installed software information (ISI), see SAP Note 1877731.
- o About creating the CISI file, see SAP Note 1816146.

### 2.6.4 Implementing the Correction to Verify Your System

The above steps make the planned changes to verify an erroneous system. To make the actual changes in the system, perform the steps in the section Implementing a system change using SUM

#### See also

- o Implementing the landscape change
- Verifying a system track

# 2.7 Planning a System Update or Upgrade

### **Prerequisites**

For you to perform any kind of update or upgrade, the system should be in a *Verified* state, indicating that the system description complies with SAP product modeling. A verified system status is green.

For a system that is not in a *Verified* state, the verification status is red in the maintenance cycle for the system; this needs to be corrected before you proceed. For more information, see *Verifying an erroneous system* 

### Procedure to update or upgrade an existing system

#### Initializing

- 1. From the Explore Systems tile, choose a system.
- 2. Choose Plan

The system software stack is displayed. This is a hierarchical list containing the base software at the bottom and all the enhancements above it.



The verification status should be green to proceed. For more information, see Verifying an erroneous system

### Choosing the software to be installed

- 3. Choose one of the options for the system you have selected. For example:
  - o Install or Maintain an Add-on

To install or maintain Add-On products without changing the underlying SAP ERP/CRM/SRM or SAP NetWeaver system. For example, FIORI PRICECHECK  $1.0\,$ 

### Note:

For any specified change to the add-on products, *Maintenance Planner* does the calculation in the lowest support package level. If you want to update to the latest or higher target support package level, you have run iteratively the support package update on such add-on products. For more information, see Iterative Planning.

o Install or Maintain an Enhancement Package

To add new extensions or install Support Package stacks for existing extensions. For example, SAP EHP7 FOR SAP ERP 6.0

#### Update NetWeaver

To either apply a Support Package Stack, update with an Enhancement Package or upgrade your NetWeaver system.

#### Note:

- 1. The above options are calculated automatically, based on your system landscape. The options available for you may vary.
- 2. The current software stack is displayed in the left panel as you make your planned changes
- 4. Based on the option you choose, you have to select other parameters, like the target software levels and instances.
- 5. Choose Confirm Selection

**Note**: The above steps can be repeated to install additional software. For more information, see Iterative planning

- 6. When you have chosen the software components, the target software stack shows the planned action, with the following icons next to the product instances:
- Indicates that the software is to be installed
- Indicates that the software is to be updated.
- 7. Select the OS/DB files based on the option you have chosen.

#### In Java and dual-stack systems:

- o Choose Add Java Patches
- o Select the Java files to be downloaded.
- o You can include the Java patches separately or include them in the stack XML
- o Choose OK

### In ERP HR Systems:

Select the relevant HR packages. This option is available on your system if:

- You have a valid RFC connection established between the SAP Solution Manager and the technical system.
- o One or more of SAP-HR, EA-HR, HR-CEE, HX-CEE, or HR CLC software components are installed on the system.
- 8. Choose Push to Download Basket

A Maintenance Plan is generated as a PDF, and can be downloaded by choosing *Download PDF* from the *Additional Downloads* menu.

A link to the upgrade media is available towards the end of the PDF.

Note: this step is applicable only in case of a release upgrade.

- 9. Choose *Utilities* menu. You can do the following:
  - o Generate Side-Effect Report.

Maintenance Planner generates a side-effect report of SAP Notes, and you can download the report in the form of a spreadsheet. For more information, see Side-Effects of SAP Notes.

**Note**: You get a notification if no side-effect SAP Notes are calculated. Side-effect report does not calculate non-ABAP SAP Notes.

o Check SAP Security Notes

Maintenance Planners allows you to view the associated SAP security notes of the support packages that are calculated in the maintenance transaction.

10. You can now download the installation files from your download basket in https://support.sap.com/swdc, and proceed with the implementation.

**Note**: The above steps only simulate the changes to your system. Actual changes will be made to your system when you perform the steps in the section Implementing a system change using SUM

### 2.8 Downloading Java Patches without Updating the System

You use this procedure to download the latest Java patches from Maintenance Planner for the already installed software components versions to your Java system without planning any system updates.

#### **Procedure**

- 1. From Explore Systems, load your Java system.
- 2. Choose Plan.
- 3. In the *Define Change* screen, select the same software stack, support package of the product versions as that of the already installed Java system.

For example,

You plan to download Java patches for	You should
SAP NetWeaver system	Select <i>Update SAP NetWeaver</i> , and select the same software stack, support package stack of the product versions of the already installed Java system.
Enhancement package of a business suite product version	Select the same software stack, support package stack of the versions of the already installed Java system.

#### Note

Do not plan any new updates to the system.

- 4. Choose Confirm Selection, and choose Next to select the files for the plan.
- 5. In the Select Files screen, the stack dependent files are already selected by default. Choose Confirm Selection Add Java Patches.

An Add Java Patches screen is displayed with the following two options:

o For Changed Components

By default, the Java patches for the changed components are displayed. You can select the Java patches that you want to download and choose any of the following radio buttons:

- o Do not include selected Java patches into stack.xml
- o Include selected Java patches into stack.xml
- o For Unchanged Components

The Java patches for unchanged components, that is, for the already installed components are displayed.

- 6. Select For Unchanged Components tab and select the Java patches that you want to download.
- 7. Choose *OK*. In *Download Files* screen, the selected Java patches are already selected. You can push the selected Java patches to the download basket.

#### Note

- o The Java patches for the unchanged components cannot be included in the stack XML file.
- You can install the Java patches using SUM. For more details on how to install Java patches using SUM, see SAP Note 1641062.

### 2.9 Iterative Planning

You can repeat the planning process iteratively, any number of times by repeating steps 3 - 7 of the section Planning a System Update or Upgrade

**Example**: The first iteration can be for an SAP NetWeaver update, and the next one to install the add-ons.

When you have completed the iterative planning, you can save the transaction and download the relevant files.

Depending on your system configuration, you may see additional options like:

- o Install or Maintain an Add-on Lets you iteratively install more add-ons
- o Install or Maintain an Enhancement Package Lets you iteratively maintain more add-ons
- o **Plan a Maintenance** This is usually in cases on NetWeaver systems where only an SP level change is possible. You can choose the available SP level.

The *Stack XML* file generated at the end of the planning process contains the metadata of **all** the planned actions, and you do not require a separate file for each installation.

# 2.10 Implementing the Landscape Change

When you have downloaded the Stack XML and the relevant archives and tools, you can use Software Update Manager (SUM) or Software Provisioning Manager (SWPM) to implement the planned changes.

Ensure that you have the following versions of the tools before you proceed with the implementation:

- o Software Update Manager 1.0 SP12 (to deploy the delta archives)
- o Software Provisioning Manager 1.0 SP7 and above (to deploy the initial media)

**Note**: To harmonize the processes in Maintenance Optimizer and Maintenance Planner, downloading all corrective software packages of SAP NetWeaver 7.0 and SAP Business Suite 2005 (and beyond) has been made easier. You can do this directly using SAP Download Manager.

## 2.10.1 Implementing a New System Installation using SWPM

Perform the following steps to consume the Stack XML file, using Software Provisioning Manager:

- 1. Using the link in the Maintenance Plan, download the installation media files.
- 2. Download and extract the latest version of Software Provisioning Manager from the *Download Basket*, and follow the recommendations in SAP Note 1680045.
- 3. Initialize SWPM

For example, on UNIX, use the following command syntax to call SWPM:

```
<path_to_directory_where_you_extracted_SWPM>/sapinst
SAPINST_STACK_XML=<absolute_path_to_location_of_STACK_XML_file>
```

#### LINIX

```
./sapinst SAPINST_STACK_XML=/download/Stack_1000001234_20150423.xml Windows: sapinst.exe SAPINST STACK XML=C:\tmp\Stack 1000001234 20150423.xml
```

- 4. Follow the instructions in the relevant installation guide:
  - o Visit https://service.sap.com/instguides
  - o Browse the left panel, choose the product you are updating, and choose *Installation*.
  - o In the document list that appears, choose the appropriate installation guide and follow the necessary steps.

### 2.10.2 Implementing a System Change Using SUM

Perform the following steps to implement the planned landscape changes like an update, upgrade, or to verify an erroneous system using Software Update Manager:

- 1. Visit https://service.sap.com/instguides
- 2. Browse the left panel, choose the product you are updating, and choose *Upgrade*.
- 3. In the document list that appears, choose the appropriate guide.
- 4. Follow the instructions in the guide to complete the update process, using the *Stack XML* or the correction file, as appropriate.

#### Perform the following steps on LMDB:

1. Run verification check on the system to which the correction is applied, using Execute Verification Check (Synchronize). You can also remove the product system from LMDB and upload to SAP portal, so that Maintenance Planner can re-verify the system.

2. Synchronize the system changes using *Upload to SAP Support Portal*.

### 2.11 Synchronize a System

Note: This is applicable only if there are multiple productive SAP Solution Manager Systems in the landscape.

If you have more than one SAP Solution Manager System, you can choose from which landscape data is to be replicated on Maintenance Planner.

In the system maintenance cycle, the Sync button is green if there is only one SAP Solution Manager, which is chosen by default. If the Sync button is yellow, there are multiple Solution Managers.

Perform the following steps to choose the one from which landscape data is to be replicated on Maintenance Planner:

1. Choose Sync

The software details of the current system, and all the Solution Managers available, are displayed.

- 2. Choose on a row, and choose Activate
- 3. This activates the chosen Solution Manager. All the other entries are marked *Archived*This action triggers a change in the software state, and the system is considered for planning.
  See Implementing a system change using SUM
- 4. You can also delete a Solution Manager by choosing the mbutton.
- 5. Save your changes

#### Note:

- o The Sync button turns to green if there is only one SAP Solution Manager after the above steps.
- o If you still have more than one SAP Solution Manager System, the Sync button remains Yellow, allowing you to perform steps 1-5 again at any time.

### **Troubleshooting**

If you face any issues while performing the system sync, you can access the logs, using the following steps:

- 1. Run transaction: SLG1
- 2. Object: AI LMDB
- 3. Sub object: SUPPORT PORTAL SYNC
- 4. Execute

You can also export the log to your local system.

# 2.12 Deleting a System

You can delete a system from Maintenance Planner as follows:

1. In the Home screen, choose the Explore Systems tile.

The tool displays all the systems in your landscape, and the Name, Type, Product and Verification Status of the technical system and the system type (ABAP, JAVA, Dual Stack, HANA DB, and so on).

2. Choose the systems you wish to delete, and choose the *Delete System* button.

**Result**: The system is removed from Maintenance Planner.

### Note:

- 1. This action does not remove the system from SAP Solution Manager.
- 2. Deleting a system renders all associated system tracks invalid. Delete all associated system tracks before you delete a system.

See also: Deleting a system track

# **3 Working with System Tracks**

### 3.1 What is a System Track?

A system track is a logical grouping of related systems, and contains two or more systems in your landscape on the same **target software level**. A system track helps you to update or upgrade all the systems at once.

#### Example:

A system track can follow one of the following patterns of logic:

- Two or more SAP ERP systems, like Dev, QA, and Production
- Two or more SAP HCM systems connected by a transport route

You can view all the system tracks by choosing the Explore System Tracks tile in the Home screen.

Maintenance Planner generates a *Stack XML* file that contains all the metadata for a collective update or upgrade of all the systems in your track, to avoid redundant effort.

## 3.2 Planning a System Track

You can put two or more systems in a track in the following scenarios:

- They have the same product versions. For example, three SAP ERP systems or four SAP HCM systems.
- They have different SP levels, but should be on the same level.

You can put systems with the  ${\bf same}$  start level in a track with the same target level.

You can put systems with **different** start levels in a track with the same target level.

See also: Verifying a system track.

**Note**: If you wish to retain a system at a different SP level, plan its maintenance independently; do not put it in a system track.

### 3.3 Creating and Modifying a System Track

To create a system track, perform the following steps:

- 1. From the Explore System tile, choose a system.
  - This system is the source system, and can be linked to other systems.
- 2. Choose the system icon to view the detailed system information.
- 3. Choose the tab Tracks
- 4. In the tracks view, choose Create Track

- 5. Choose the 🕀 icon on the top-right corner of the source system
- 6. Enter the details, like Source System Role, and the Target System name and Role

A graphical representation of the link between the source system and the target systems, is displayed.

You can then provide a track name and save the system track.

Note: You can add a system to any number of tracks.

To **remove** a system from a system track, perform the following steps:

- 1. Choose the icon on the top-right corner to switch to edit mode.
- 2. Choose the (8) icon next to the system to be deleted.
- 3. Save your changes.

At this point, the changes are saved as a transaction and all system track changes will be visible only within this transaction.

**Optional**: For the changes to persist in the system, the transaction must be activated on the SAP Support Portal. These steps are described in the following section.

### 3.3.1 Activating system track changes to SAP Support Portal

This section describes the process of activating the system track updates on the SAP Support Portal.

- 1. Load the transaction you have created as per the section Creating and Modifying a System Track. The maintenance cycle for the transaction is displayed.
- 2. Choose Verify.
- 3. Follow the on-screen instructions to complete the verification process.
- 4. Save the changes.
- 5. Choose the Activate button.

This saves the transaction updates to the SAP Support Portal, and the system track updates will be available during future logins.

# 3.4 Deleting a System Track

You can delete a system track from Maintenance Planner by performing the following steps:

- 1. In the Home screen, choose the *Explore System Tracks* tile. The tool displays all the system tracks that you have created
- 2. Select one or more system tracks you wish to delete, and choose the button Delete Track

**Result**: The system track is removed from Maintenance Planner.

# 3.5 Verifying a System Track

Your system track may be marked erroneous if the systems in the track have a different SP level. You cannot update or upgrade such a track.

In such a case, reconfirm if you want to allow systems in different SP levels to be in the same track.

1. Choose the Explore System Tracks tile

A table containing all system tracks and the verification status is displayed.

If a track needs verification, it is indicated as Not Verified.

2. Choose the track name

The maintenance cycle is displayed.

The *Verify* tab is red, indicating that your system track needs verification.

- 3. Choose Verify
- 4. Answer the verification question.

**Example**: System X does not have the same software status as the others in the track. Do you really want to add it to the track?

- 5. Choose Yes and choose Submit
- 6. Choose Next to verify dependencies, if any.
- 7. Once you see the message *Verification is successful*. Choose *Next*, proceed to the next step, to complete the verification.
- 8. Choose Activate.

On activation, the changes are saved on SAP Support Portal and users logging in to the system need not perform the verification steps again.

9. The verification is now complete and the verification status turns green in the maintenance cycle.

See also: Verifying an erroneous system

# 4 Maintenance Planner-Based SAP Fiori Installation and Upgrade

## 4.1 Launching Maintenance Planner for SAP Fiori Apps

To get started with Maintenance Planner for SAP Fiori installation, perform the following steps.

- 1. Log in to the SAP Fiori app Library: http://www.sap.com/fiori-apps-library
- 2. Choose the SAP Fiori app to install on your system, and read the product features from the app library
- 3. To proceed with the installation, choose the IMPLEMENTATION INFORMATION tab
- 4. System details, like Front-End Components, Back-End Components and Prerequisite for installation, are displayed.
- 5. To use Maintenance Planner to install the above components, choose the Maintenance Planner link.

#### Note

- o You can use the *Aggregate* button to view the aggregated installation and configuration information for a selection of apps.
- o After aggregation, you can choose the button *Prepare apps for processing with Maintenance Planner* to proceed further.
- 6. The Maintenance Planner Launchpad for SAP Fiori installation is displayed

# 4.2 System Overview

The *Overview* screen provides the current overall status of the system, and the requirements to proceed with the SAP Fiori app installation.

The *Product Versions* section automatically fetches the current versions of the existing software components.

The *Installation Details* section calculates and fetches the required software components, like product version, product instance, and the requirements, in a tabular format, for the following:

- Back-end Server
- Front-end Server
- HANA XS Server (If applicable)

After reviewing the information, choose the stack for the available product versions, and choose Next to proceed.

### 4.3 Select Systems

In this screen, choose the systems and the software components to install.

Following are the fields for the Back-End and Front-End systems in which you provide input to start the installation:

- Standalone System: to install a system independently of the back-end system
- System Name: the system for the SAP Fiori installation
- **Current Version**: the current version of the selected system.
- Target Version: the target version to be installed.
- Minimal Required Release: the minimum required release to install.
- Install a New System: You can install a new system. Provide the System ID (SID) and the target version
- **Co-deployed with Back-End**: You can choose the deployment patterns for the systems. This option co-deploys the front-end system with the back-end.

When you have made the system selection, choose *Next* to see all the impacted systems.

### 4.4 Impacted Systems

This screen summarizes the planned changes to the current system and the other impacted systems in the landscape. You can plan further installation before proceeding, by choosing *Install Additional Software*.

The target software state of the following systems is displayed:

- Back-end
- Front-end
- HANA XS Server

The following icons indicate the type of action planned:

- A Indicates that the software is to be installed
- Indicates that the software is to be updated.

### 4.5 Installing Additional Software

This step is optional. You can select the archives for the landscape plan or install additional software.

You can install additional software as follows:

In the Impacted Systems screen, choose the button Install Additional Software

- 1. Choose from one of the available options for the system you have selected. For example:
  - o Install or Maintain an Add-on

To install or maintain Add-On products without changing the underlying ERP/CRM/SRM or NetWeaver system. For example, FIORI PRICECHECK 1.0

#### o Install or Maintain an Enhancement Package

to add new extensions, or install Support Package stacks for existing extensions, for example EHP7 FOR SAP ERP 6.0

#### o Update NetWeaver

To either apply a Support Package stack, or update with an Enhancement Package, or upgrade your NetWeaver system.

#### Note:

- o The above options are calculated automatically, based on your system landscape. The options available may vary.
- o The current software stack is displayed in the left panel as you make your planned changes
- 2. Choose the button Confirm Selection
- 3. You can repeat the above steps iteratively, to install more software components.
- 4. Choose Next to download the files.

**Note**: If the installation fails during the above process, view the logs for details, and attach them if you request SAP Support.

5. Once you have installed the additional software, choose Next, to download the relevant files.

### 4.6 Select and Download Installation Media

- 1. Download the installation plan by choosing *Download Stack XML*, and choose *Push to Download Basket* to download the archives from SAP Support Portal.
- 2. Choose *Next* to go to the last stage of the installation process.
- 3. You can download the Maintenance Plan as a PDF by choosing *Download PDF* from the Additional Downloads menu.

A link to the initial installation media is towards the end of the PDF.

To implement a new system on your landscape, follow the steps in the section Implementing a New System Installation using SWPM

To make changes to, or update, an existing system in your landscape, follow the steps in the section Implementing a System Change Using SUM

#### See also:

• SCN page describing the detailed process of SAP Fiori Installation.

# 5 APPENDIX

### 5.1 Working with Transactions

In Maintenance Planner, whenever you perform an activity like planning a new system installation or installing an update or upgrade, a transaction is created.

### 5.1.1 Viewing a Transaction

You can view all the available transactions by choosing the *Existing Transactions* tile on the home screen. This displays a list of all the transactions you created, ordered by:

- Transaction ID: A unique 10-digit number identifying the transaction
- **Transaction Name**: At any point doing a maintenance activity, you can give a name to the transaction and save it, for easy identification later.
- Transaction Status: Indicates the current state of the transaction, like Planning, Scheduled, or Completed
- Attachments: Lets you download attachments for this transaction. This could be one or more of the following:
  - Maintenance Plan
  - Stack XML
  - Correction Files
- Created By: the user who created this transaction
- Creation Date: the date this transaction was created

# 5.1.2 Modifying a Transaction

You cannot perform any more operations after you have chosen the *Activate* button which is visible during the last step of a planning activity. Once a transaction is activated, further changes to your system must be made in another activity; a new transaction.

In all other cases, you can choose the Transaction ID to launch the transaction and proceed with further actions.

# 5.1.3 Deleting a Transaction

From the *Explore Transactions* screen, choose the transactions you wish to delete, and choose the *Delete Transaction* button.

#### **Generating a Stack XML Copy** 5.1.4

You can copy a stack XML generated for a particular system to another system to generate a stack XML for the same target. You can use this feature in following cases:

- If the systems for which you want to copy the stack XML have the same operating system or database.
- If for updating or upgrading the systems, you are using templates to replicate the system.

#### Note

In case of System Tracks, you can add systems having different OS/DB and also different start statuses.

### **Prerequisites**

The start state of technical system in the transaction and the technical system for which you want to generate a stack XML copy have the same technical details (software component versions and support package level).

#### **Procedure**

- 1. Load a transaction or search for a transaction from the *Transaction* tile.
- 2. Choose the system from the center of the maintenance planning cycle.
- 3. Choose Software tab and choose Generate Stack XML Copy.

#### Note

The Generate Stack XML Copy button is available only if the stack XML is generated for the system in the

4. In the Generate Stack XML Copy dialog box, enter or choose the technical system (SID) for which you want to generate a stack XML copy.

#### Note

- o The SID field list displays only technical system IDs with the status OK, that is, for which system validation is performed.
- o The system displays error notification if:
  - o The entered technical system (SID) details does not match with the system involved in the transaction.
  - o The manually entered SID is invalid.
- 5. Based on your selection, the system displays the following details:
  - Database Host
  - o Host
  - o Replication Date
  - o Custom Number
  - o Installation Number
  - o Mapped Systems
  - o Displays details of the technical system IDs replaced by the new technical system IDs.

6. Choose Generate Copy to download the new stack XML in the browser.

Note

- No new transaction is created when you generate a copy of the stack XML.
- The feature is only available for update or upgrade transactions and for transactions generated for technical systems with product maintenance dependency.
- The feature is not available for SAP S/4HANA conversions and does not include transactions for system tracks.

# 5.2 Support

If you need support:

- Find answers or read blogs on the SAP Community Tag: Software Logistics
- Ask a question on the SAP Community Q&A page
- Find a solution on the SAP Community WIKI for Maintenance Planner Troubleshooting Guide
- In case of issues, please use the component **BC-UPG-MP** to raise a support ticket for Maintenance Planner.

### Important Disclaimers and Legal Information

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