forward faster

SSA® ERP LN 6.1

Product Maintenance and Control (PMC) Recipient User Guide

Important Notices

The material contained in this publication (including any supplementary information) constitutes and contains confidential and proprietary information of Baan International B.V.

By gaining access to the attached, you acknowledge and agree that the material (including any modification, translation or adaptation of the material) and all copyright, trade secrets and all other right, title and interest therein, are the sole property of Baan International. and that you shall not gain right, title or interest in the material (including any modification, translation or adaptation of the material) by virtue of your review thereof other than the non-exclusive right to use the material solely in connection with and the furtherance of your license and use of software made available to your company pursuant to a separate agreement (“Purpose”).

In addition, by accessing the enclosed material, you acknowledge and agree that you are required to maintain such material in strict confidence and that your use of such material is limited to the Purpose described above.

Although Baan International, has taken due care to ensure that the material included in this publication is accurate and complete, Baan International, cannot warrant that the information contained in this publication is complete, does not contain typographical or other errors, or will meet your specific requirements. As such, Baan International, does not assume and hereby disclaims all liability, consequential or otherwise, for any loss or damage to any person or entity which is caused by or relates to errors or omissions in this publication (including any supplementary information), whether such errors or omissions result from negligence, accident or any other cause.

Baan International B.V., is a wholly subsidiairy of SSA® Global Technologies™, Inc.

Trademark Acknowledgements

SSA Global, SSA and the SSA Global logo are trademarks of SSA Global Technologies, Inc. in the United States and/or other countries. Baan is a trademark of Baan International B.V., in the United States and/or other countries.

All other company, product, trade or service names referenced may be trademarks of their respective owners.

Publication Information

Document code	U8616A US
Document group	User Documentation
Document title	Product Maintenance and Control (PMC) Recipient User Guide
Subject	SSA® ERP LN 6.1
Created on	6/20/2005 09:49:04

Table of Contents

About this document

Document summary

This document describes the Product Maintenance and Control (PMC) module for the Recipient of Service Packs and Individual Solutions.

This document is also a composite of components that are available in the SSA Web Help.

For the content of this guide refer to the Table of Contents.

For the explanation of the PMC terms refer to the Glossary.

To find a topic quickly please use the Index.

Comments?

We continually review and improve our documentation. Any remarks/requests for information concerning this document or topic are appreciated. Please e-mail your comments to documentation@ssaglobal.com .

In your e-mail, refer to the document number and title. More specific information will enable us to process feedback efficiently.

Chapter 1
Introduction

1

This chapter provides an introduction to the Product Maintenance and Control (PMC) module.

PMC Introduction

To help you manage software updates to your SSA ERP LN system, SSA Global offers the Product Maintenance and Control (PMC) Tool – an efficient, highly effective tool for managing functional software updates (Service Packs) and other software updates (Individual Solutions).

The PMC module manages the installation of Service Packs and Individual Solutions. The PMC module is delivered to all customers as part of the master CD-ROM of SSA ERP LN. The PMC module is used to check software updates for completeness and customization interference.

Without a tool such as PMC, software updates could be installed irrespective of other software updates that were already installed. Technically, an update that contains an earlier version of a software component than the version already present on your system, could be installed. In this case, you lose the updates contained in the original software components.

The PMC module contains two sub-modules.

- PMC distributor
- PMC recipient

PMC Benefits

The PMC module is an easy-to-use tool that enables you to install, configure, and run new software with confidence. The PMC module simultaneously addresses a wide range of software update challenges, including:

- Automatic checks for updates for any previous dependencies, to ensure that these exist on the system on which you install the update.
- Analysis of potential conflicts with system customizations at installation time, which enables the user to identify any conflicting customizations.
- Option to maintain copies of all previous software components. This feature enables the user to roll back updates easily to any point in history.
- Overview of all Service Packs and Individual Solutions, that are installed.

Chapter 2
PMC overview

2

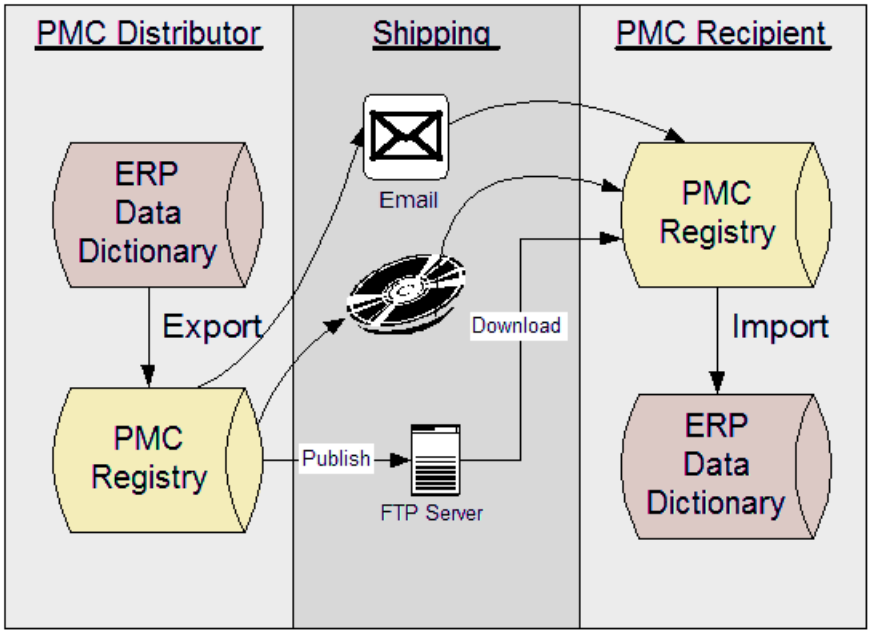
This chapter provides an overview of the Product Maintenance and Control (PMC) module.

This chapter contains the following sections:

- PMC Architecture
- Where to find the PMC module
- Dependencies
- Individual Solutions
- Collections
- Service Packs and Patches
- PMC Distributor functionality
- PMC Recipient functionality

PMC Architecture

The following figure illustrates the architecture of the PMC module:



The software developer creates or updates software components in the *Data Dictionary* of the developers ERP system. Software is packaged by the PMC distributor and stored in the PMC Registry. The software is published on an FTP server. Software can also be shipped on other media, such as CD-ROM, or can be sent by e-mail.

The customer can download the software from an FTP Server, or can order a software CD-ROM. PMC recipient builds or updates the PMC Registry on the customer's ERP system. Software in the customer's PMC Registry can be imported in the customer's data dictionary.

Where to find the PMC module

The PMC module is part of SSA Enterprise Server (Tools). The software supplier is the distributor of the solutions, and the user or customer of the applications is the recipient. The PMC module contains functionality and sessions for both the distributor and recipient role.

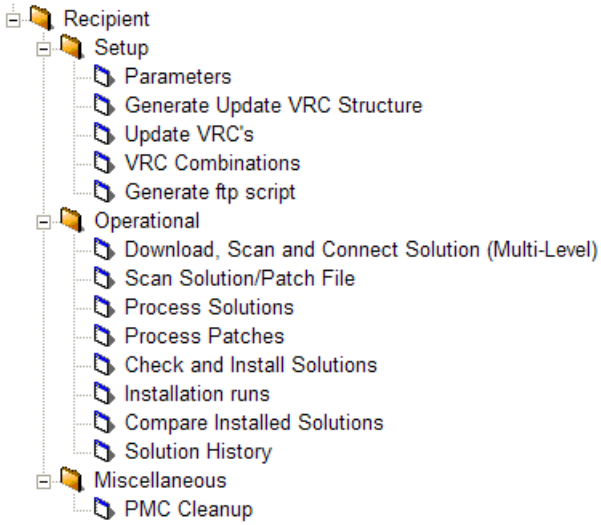
To navigate to the recipient part of the PMC module take the following steps:

1. Log on to SSA ERP.
2. On the ERP Menu Browser, click **Tools --> Software Installation --> Miscellaneous --> Recipient**.
3. Click **Setup, Operational, and Miscellaneous**.

Alternatively, you can take the following steps to navigate to the recipient part of the PMC module:

1. Log on to SSA ERP.
2. On the ERP Menu Browser, click **Tools --> Application Development --> Product Maintenance and Control --> Recipient**.
3. Click **Setup, Operational and Miscellaneous**.

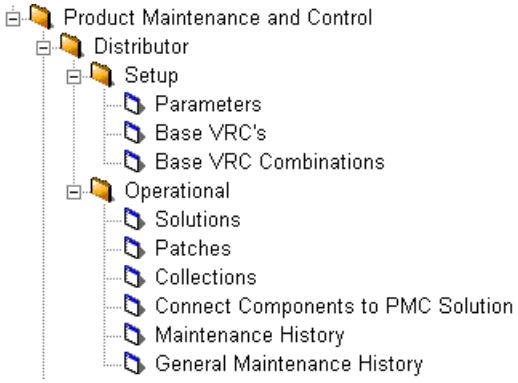
The following figure shows the Recipient sessions:



To navigate to the distributor part of the PMC module take the following steps:

1. Log on to SSA ERP.
2. On the ERP Menu Browser, click **Tools --> Application Development --> Product Maintenance and Control --> Distributor**.
3. Click **Setup and Operational**.

The following figure shows the Distributor sessions:



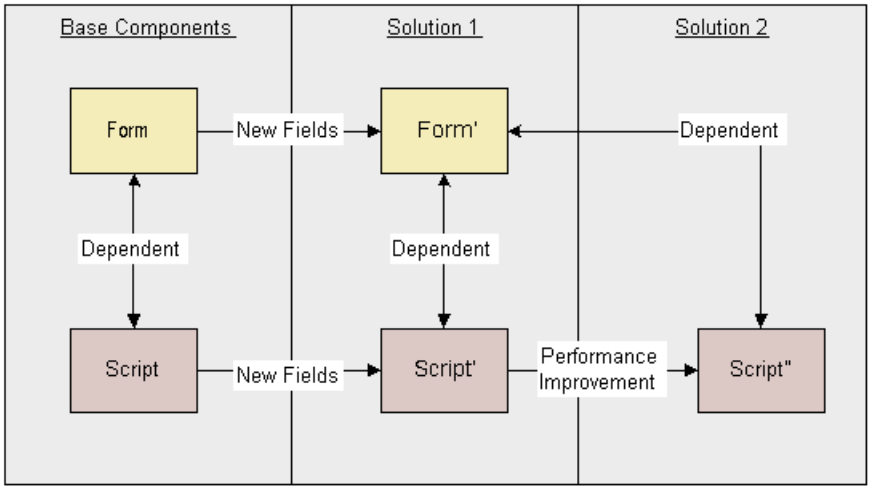
Dependencies

When the PMC recipient installs software updates, the recipient checks the presence of the required depending solutions.

Three dependency types exist:

- Pre-requisites
- Co-requisites
- Post-requisites

The following figure shows a pre-requisite dependency: solution 1 must be installed before solution 2.



The following section describes a customer scenario.

Example

A dependency requires you to install the previous version of a software component first. Suppose that you installed SSA ERP LN from the master CD-ROM without customizations or solutions. You receive an updated version of the Copy Sales Order (tdsls4201s000) session, which contains the session object, script, and forms that are interdependent of each other.

You decide not to install the dump and, a few months later, you discover that a change is required in the script to correct a problem that is keeping your sales force from selling an item. The change is sent as a dump that contains only the session object and script. You can install this dump only if you installed the previous version of the software component, because the dump requires the proper form of the first solution. PMC automatically installs the previous solution.

Suppose you deliberately decided not to install a solution, for example, because you do not know if the existing version of the Copy Sales Order (tdsls4201s000) session was customized. The PMC module provides

protection against this as well. In this case PMC informs you that the current version is customized. You cannot overwrite software, because PMC uses update VRC levels and maintains copies of all previous software components. This setup enables you to roll back updates easily to any point in history.

Individual solutions

A PMC Distributor creates and publishes individual solutions.

Individual solutions created for standard products of SSA Global are available for download 24 hours a day, seven days a week, from the SSA OnePoint Support Web site www.support.baan.com for SSA-owned products.

You can only download these solutions one by one.

After you download and scan a solution, the PMC recipient checks the dependencies with other solutions. In some cases, other dependent solutions might be missing at the installation system and must be downloaded and scanned, as well. The process to install individual solutions can take a long time if many dependent solutions must be downloaded and scanned.

You can use the Multilevel Download functionality to download all the dependent solutions, without user interaction, to simplify and speed up the download process.

Collections

Collection dumps enable customers to update their system with the latest software.

Collections are groups of all individual solutions that are released in a particular period.

These individual solutions are gathered at the PMC distributor side in a single dump file.

Collections for standard products of SSA Global are published on an FTP server.

You can scan collections in a single action. While you scan the collection with the *Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)* session, the dump file is split into all individual solutions that were included in the collection.

Afterwards, you can install the individual solutions.

You can use collection dumps in two ways: for pro-active installation or corrective installation.

- **Pro-active installation**
  The user installs all individual solutions of the collection. The user runs the most up-to-date version of the software, including the latest released fixes.

- **Corrective installation**
  The individual solutions of the collection are not installed. The solutions have status *Available* in the PMC registry. If the user runs into a problem, and a solution is advised for this problem, the user can install that solution immediately. All dependent solutions will be installed automatically.

Service Packs and patches

Periodically, individual solutions can be bundled into Service Packs or patches. In general, these types of updates contain solutions created in a larger time period than a collection. In the PMC Tool, the term ‘patch’ is used both for Service Packs and patches. The patch entity is known at both the PMC distributor and PMC recipient side. Service Packs and patches are an indivisible set of solutions. You cannot install or uninstall individual solutions that belong to a Service Pack or a patch by the PMC recipient. You can only install or uninstall entire Service Packs and patches. Dependencies between Service Packs and patches can exist.

The subsequent sections describe the justification, characteristics, and differences of Service Packs and patches.

Justification of Service Packs and patches

During the life cycle of a product, in general, two types of changes are implemented in the product:

- Corrective fixes for defects
- Functional enhancements to further enrich the product

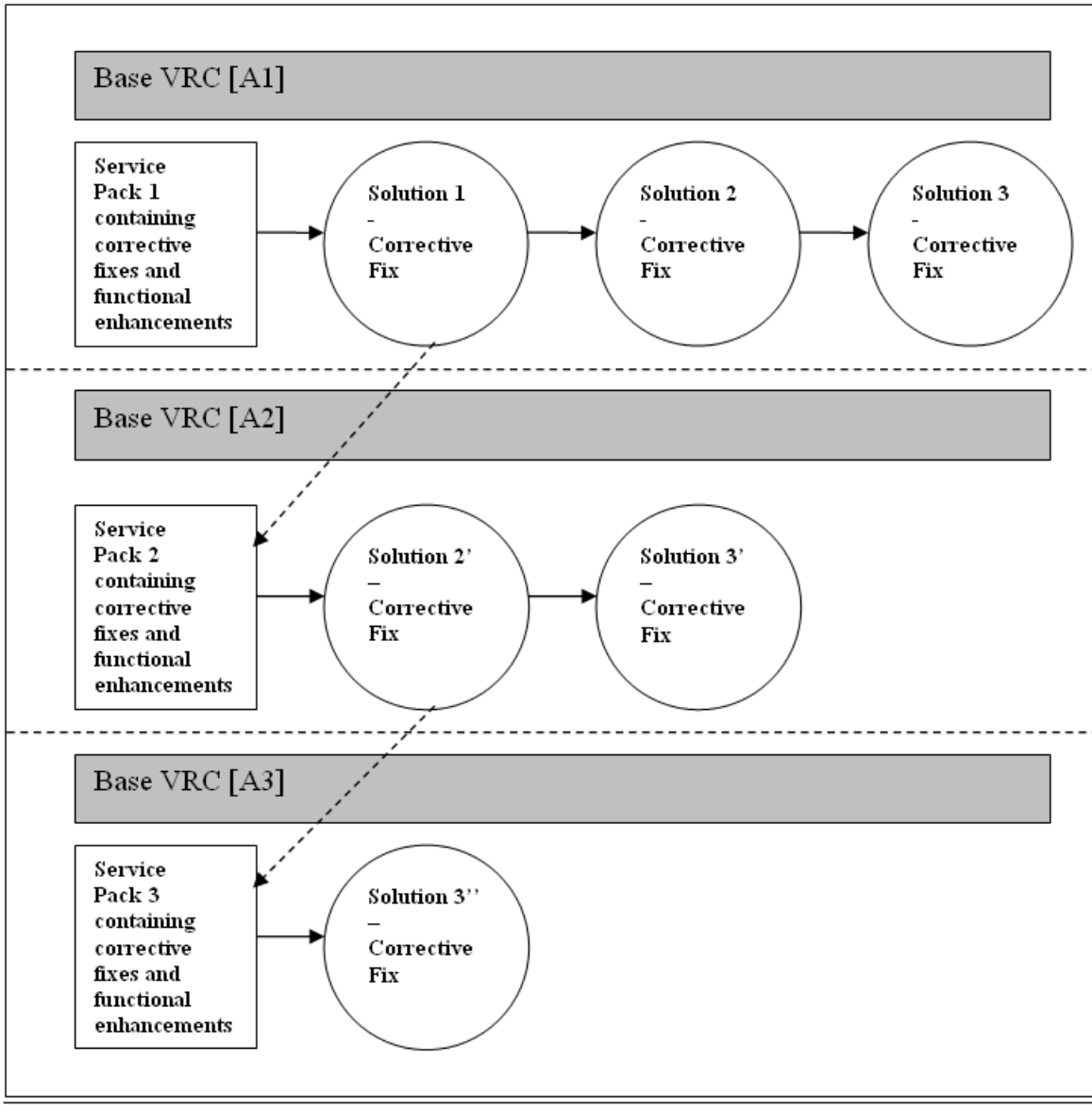
Functional enhancements are often accompanied by changes in the data model, changes in the user interface, and changes in the behavior of the application. In general, functional enhancements require a careful preparation before installation in an operational environment. PMC generates dependencies between solutions, that contain the same components to guarantee that the solutions are installed in the correct order and no necessary solutions are skipped. In some cases, users must first install a number of functional enhancements before the users can install a corrective fix for a relative small defect. Installation of the functional enhancements can be required at unexpected and undesirable moments.

Service Packs enable you to separate functional enhancements from the flow of corrective fixes. This separation enables users to adopt and implement functional enhancements in a more controlled way. Patches do not offer this possibility.

Service Packs

Service Packs enable you to separate corrective fixes from functional enhancements. Multiple parallel maintenance baselines exist for the product. Every new baseline is linked to a unique base VRC. Functional enhancements are, in principle, only implemented at the start of a new baseline.

The Service Packs mechanism is as follows:



Service Pack 1 is linked to base VRC A1. The Service Pack contains a number of corrective fixes and some functional enhancements. Corrective maintenance is performed for this Service Pack, which results in solutions 1, 2, and 3 in the previous figure.

In parallel, the software distributor develops Service Pack 2, which is linked to base VRC A2. Whenever possible, the distributor immediately ports and includes corrective solutions created on top of Service Pack 1 in Service Pack 2. Refer to solution 1 and the dashed arrow in the previous figure. These ported solutions are registered in Service Pack 2 as so-called obsolete solutions.

The same process repeats when the distributor develops Service Pack 3, which is linked to base VRC A3.

After the release of Service Pack 2 and 3, the distributor also creates corrective solutions on top of these Service Packs.

When Service Pack 2 is being installed at a recipient, the PMC Tool checks whether all solutions that were installed on top of Service Pack 1 are also available for Service Pack 2.

These solutions can be available in two different shapes for Service Pack 2:

- **As an obsolete solution**
  Included in Service Pack 2. Refer to solution 1 and the dashed arrow in the previous figure. These obsolete solutions are integrated in Service Pack 2 and do not have a separate physical solution dump.
- **As an individual solution**
  Available on top of Service Pack. Refer to solutions 2' and 3' in the previous figure. These so-called missing solutions are not included in Service Pack 2 and do have a physical solution dump.

  Note: If Service Pack 1 is installed in multiple update VRCs, the PMC Tool performs the missing solution check in all update VRCs, that contain Service Pack 1.

The PMC Tools will refuse to install Service Pack 2 if not all solutions installed on top of Service Pack 1 are also available for Service Pack 2. Otherwise, old defects would come back after you install Service Pack 2. The distributor is responsible for ensuring that all solutions of the preceding Service Pack are also available for the subsequent Service Pack before publishing the subsequent Service Pack.

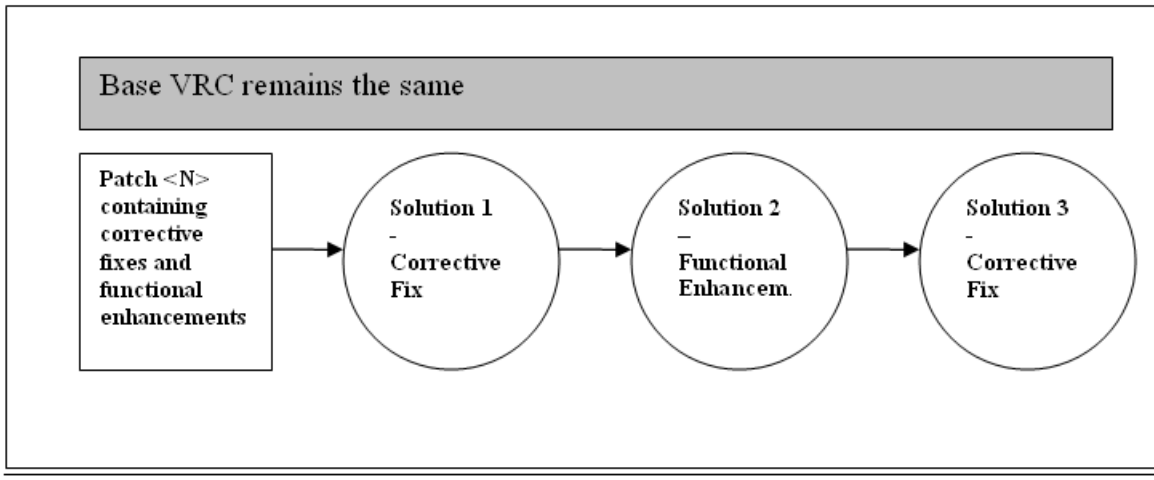
Service Packs are cumulative. Every new Service Pack also includes all preceding Service Packs. This enables you to skip the installation of Service Packs at the PMC recipient. For example, you can immediately upgrade from Service Pack 1 to Service Pack 3 without installing Service Pack 2 in between. The installation process is optimized in such a way that only components that are changed as compared to the current installed Service Pack will be installed.

You can install Service Packs in an existing update VRC. Therefore, creating a new update VRC is unnecessary. As a result, the VRC structure at a recipient system can remain unchanged. However, the base VRC linked to the update VRC will change. If desired, you can, of course, also install a new Service Pack in a new update VRC.

Patches

Patches do not enable you to separate corrective fixes from functional enhancements. Only one maintenance baseline of the product exists. Changes are always implemented in the latest version of a software component. The base VRC remains the same. Functional enhancements will be included in the chain of depending corrective solutions.

The Patch mechanism is as follows:



To install solution 3 in the this picture, you must first install solution 2, which contains a functional enhancement.

Patches are not cumulative, which means you cannot skip the installation of Patches at a recipient's location. For example, before you install Patch 3, you always must install Patch 2 in advance. You cannot immediately upgrade from Patch 1 to Patch 3.

Distributor's Policy

The software distributor decides if Service Packs or Patches are being applied. A mix of both types is also possible:

- When applying Service Packs, the distributor can decide to release a functional enhancement as an individual PMC solution on top of one of the released Service Packs.
- When applying Service Packs, the distributor can decide to periodically also release Patches on top of the Service Pack.

When applying Service Packs, the distributor's policy determines how many base VRCs are maintained in parallel and how long the base VRCs are maintained.

PMC Distributor functionality

The software developer generates additional software and makes software changes on the existing SSA ERP LN software packages.

The supplier of the SSA ERP LN software uses the PMC Distributor functionality to manage the software updates and prepares those updates for delivery to the customers.

The following is a process overview of the PMC Distributor module.

- **Create individual solutions**
  - **a.** Define a unique identifier for the solution and a brief description.
  - **b.** Link one or more software components to the solution.
  - **c.** Define or generate the dependencies on other solutions.
  - **d.** Export the solution, the software dumps are now created.
  - **e.** Release the solution, the solution is now ready for delivery.
- **Create collections**
  - **a.** Define a unique identifier for the collection and a brief description.
  - **b.** Link one or more individual solutions to the collection.
  - **c.** Export the collection.
  - **d.** Release the collection.
- **Create patches**
  - **a.** Define a unique identifier for the patch and a brief description.
  - **b.** Link one or more individual solutions to the patch.
  - **c.** Define or generate the dependencies on other patches.
  - **d.** Validate the patch.
  - **e.** Export the patch.
  - **f.** Release the patch.
- **Create service packs**
  - **a.** Define a new base VRC for the service pack.
  - **b.** Define a unique identifier for the service pack and a brief description.
  - **c.** Define the dependency on previous service packs.
  - **d.** Generate the service pack, in other words, link all components in a specified VRC to the service pack.
  - **e.** Validate the service pack.
  - **f.** Export the service pack.
  - **g.** Release the service pack.
- **Additional distributor functionality**
  - Mutilevel export.

- SCM integration.
- Maintenance History.

PMC Recipient functionality

Customers use the PMC Recipient module to install the SSA ERP LN software updates on their ERP system.

The following is an overview of the PMC Recipient module.

- **Download solutions**
  You can download solutions from the FTP server or copy the solutions from a medium such as a CD-ROM.
- **Scan and connect solutions**
  The downloaded solution files can be scanned. In other words, the user must extract and store the solutions into the PMC registry. The extracted solutions are also connected to an update VRC.
- **Process solutions**
  a. Check to install. Report the following: Pre- and post-installation instructions, customized components, and missing dependent solutions.
  b. Install the solutions: Store the software components in the data dictionary, report additional post-installation instructions.
- **Additional recipient functionality**
  - Uninstall
  - Mutilevel download
  - Compare installed solutions
  - Solution History
  - PMC cleanup
  - Copy PMC registry
  - View installation runs.

Chapter 3
Recipient procedure

3

This chapter describes the recipient procedures. This chapter contains the following sections:

- Setup
- To install updates
- Miscellaneous topics

Setup

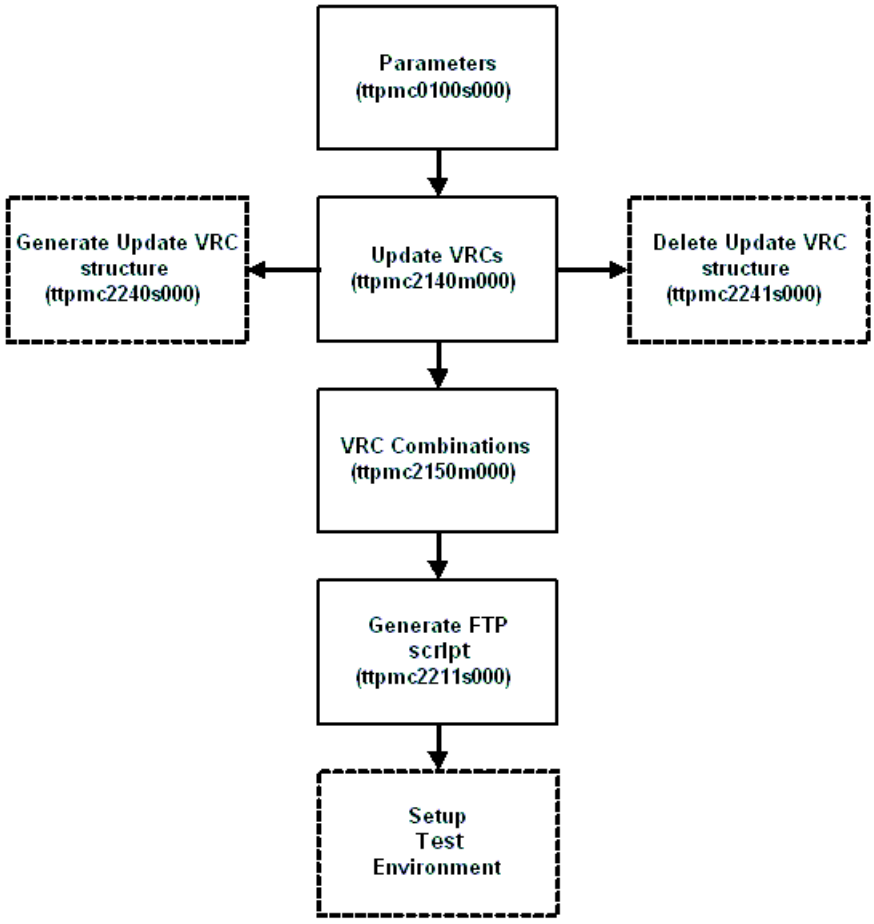
PMC Recipient is fully configured by the SSA Installation Wizard during the installation of the base SSA products such as SSA ERP LN and SSA Enterprise Server. This section describes this setup and how to make changes to the setup.

The setup consists of the following sections:

- Procedure
- SSA Installation Wizard and PMC
- Parameters
- Generation and use of update VRCs
- VRC combinations
- To create a test environment
- FTP for downloading software updates

Procedure

This section shows the Recipient Setup procedure steps in a flowchart. The following sections provide a detailed explanation of the procedure.



Recipient Setup procedure

SSA Installation Wizard and PMC

The PMC Tool has a seamless integration with the SSA Installation Wizard. If you install updates by means of the SSA Installation Wizard, the SSA Installation Wizard activates the PMC Tool in the background.

You can use both the PMC Tool and the SSA Installation Wizard to install updates in an existing environment. However, both tools serve their own specific goal in the update installation process:

The SSA Installation Wizard is primarily intended to do the following:

- Install the initial master media
- Install Service Packs

The PMC Tool is primarily intended to do the following:

- Install individual solutions
- Install collections
- Install patches

You can also install individual solutions, collections, and patches by means of the SSA Installation Wizard. However, this has the following drawbacks:

- The installation process is more labor intensive (more mouse clicks)
- You can miss essential information during the installation process. The so-called pre installation and post installation instructions are not presented in an active way.
- The SSA Installation Wizard installs all solutions present in the staging area and/or server. You cannot select a subset of solutions from the available solutions.

For these reasons, to install individual solutions, collections and patches, be sure to use the PMC Tool directly.

On the other hand, you can install Service Packs directly by means of the PMC Tool. This has the drawback that you must also perform a number of additional steps manually after you install the Service Pack. These steps include running the Convert to Runtime Data Dictionary (ttadv5215m000), Compile Labels (ttadv1243m000) and Create Tables (ttaad4230m000) sessions. If you use the SSA Installation Wizard, all required steps are executed automatically in the installation process. In addition, the SSA Installation Wizard offers some extra features that can be very useful during installation of Service Packs, such as the automatic creation of new VRC structures and creation of Package Combinations in which the Service Pack can be installed.

You cannot however perform the initial installation of initial master media by means of the PMC Tool. To perform this installation, you must use the SSA Installation Wizard. During installation of the master media, the SSA Installation Wizard initializes the PMC Tool in such a way that the environment is immediately ready for installing updates. You can also initialize the PMC Tool manually by means of the PMC Tool itself. This initialization process is described in the following sections. The following sections describe which steps are performed automatically when you use the SSA Installation Wizard.

Parameters

The very first step in the Recipient setup procedure is to define the PMC parameters.

The following parameter groups are available:

- **Recipient**
  The PMC recipient part of the PMC module uses these parameters and these parameters must be filled.

The parameters are paths on the operating system, on which the solution dumps will be stored.

- **Distributor**
  Even if you do not use the PMC distributor part of the PMC module, you must fill the parameters of this group for technical reasons.

For details refer to the *Parameters (ttpmc0100s000) (p. 4-1)* session.

Note

Because parameter definition is a one-time step, you must be aware of the impact if you change the parameters afterwards.

If you change the operating system paths, you must move the directories and files according to the new path specifications.

Hint

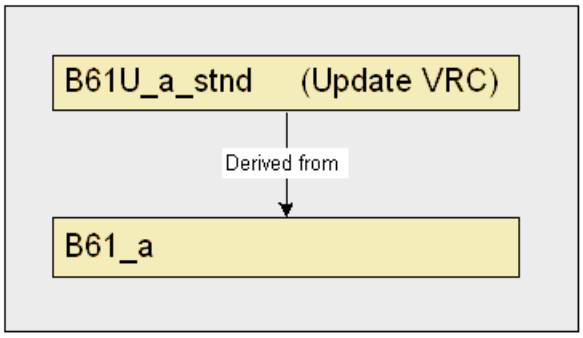
If you have more than one ERP environment running, for example, a Production and a Test environment, you can share the solution dump directories on the ERP environments, which reduces disk-space consumption.

Generation and use of update VRCs

PMC uses update VRCs. The software of an initial standard master product is installed in a root VRC that is predefined by the software supplier. The update VRC is created on top of this root VRC. Service Packs and individual solutions that you download from the SSA OnePoint Support services Web site are also installed in this update VRC. The update VRCs are created automatically during the installation of the master product.

You can use the *Generate Update VRC structure (ttpmc2240s000) (p. 4-4)* session to generate these update VRCs. In addition,you can define update VRCs by means of the *Update VRC's (ttpmc2140m000) (p. 4-7)* session.

In general, the VRC structure for standard SSA ERP LN resembles the following figure:



B61_a is the VRC that contains the baseline, which is the very first shipment of SSA ERP LN 6.1. From this point on, Individual solutions and Servic Packs are installed in the B61U_a_stnd VRC.

For the SSA Enterprise Server (packages tt and tl) no new update VRCs are created and used.

After a fresh installation of SSA ERP LN, the following update VRCs are present in PMC:

The heading of the first column in the table, **Pack.**, refers to the package to determine the VRC structure.

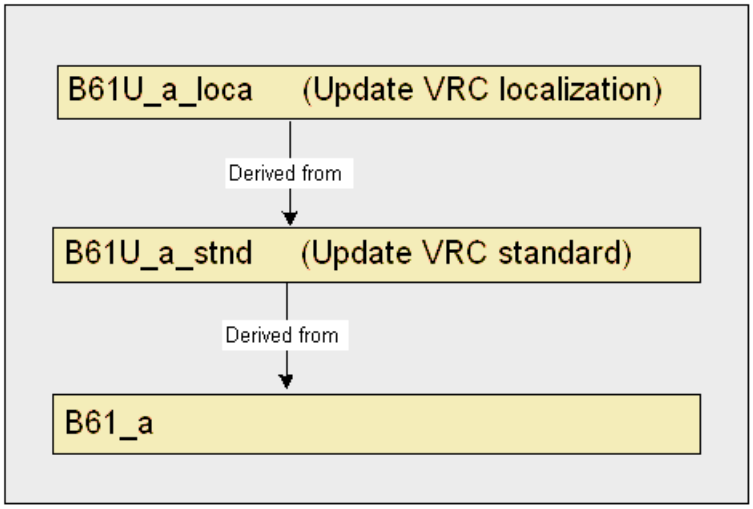
Pack.	Update VRC			Base VRC		
da	3.3U	b	stnd	3.3	b	da
tt	7.6	a		7.6	a	tt
tf	B61U	a	stnd	B61	a	

VRC combinations

In PMC you use a VRC combination to control co-requisite dependencies between solutions of various base VRCs.

Update VRCs that must be updated simultaneously, for example, an update VRC for standard SSA ERP LN and an update VRC for a localization, must be grouped in a VRC combination by the *VRC Combinations (ttpmc2150m000) (p. 4-9)* session and the *Update VRC's (ttpmc2140m000) (p. 4-7)* session.

The following figure shows a VRC structure, including a localization:



The following shows the possible Update VRCs in SSA ERP LN when applying a localization.

The heading of the first column in the table, **Pack.**, refers to the package to determine the VRC structure.

Pack.	Update VRC			Base VRC			VRC Comb.
da	3.3U	b	stnd	3.3	b	da	
tt	7.6	a		7.6	a	tt	
tf	B61U	a	stnd	B61	a		UPD
tf	B61U	a	loca	B61L	a	loca	UPD

To create a test environment

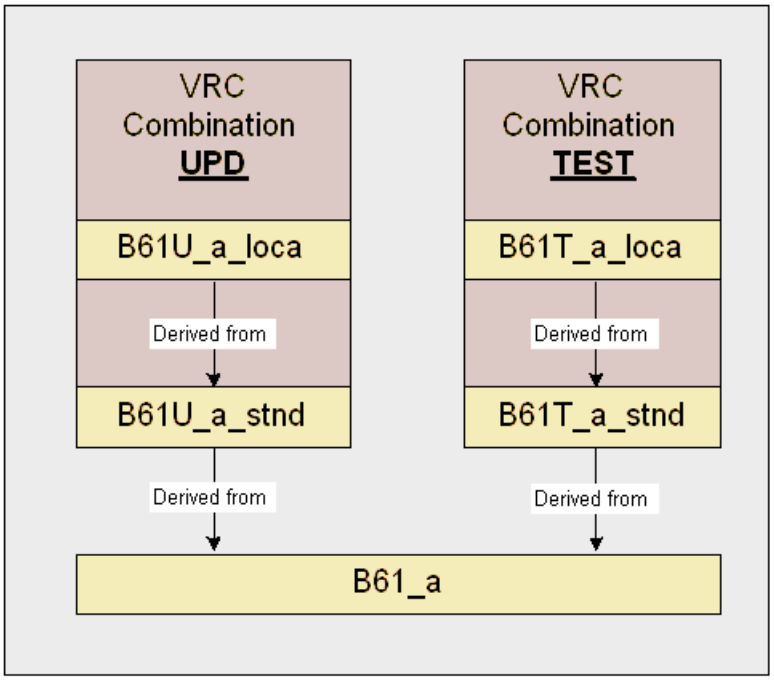
Best practise is to test the software updates in a test environment before you implement the updates in your live environment.

To test the software updates, create the update VRCs and the VRC combination for your test environment.

Note

For the SSA Enterprise Server (Tools), no update VRC is created. Therefore, you cannot create an update VRC for testing purposes. To test the SSA Enterprise Server software updates before installation in your live environment, you require a separate installation of SSA ERP LN.

Create the update VRC for a test environment parallel to the VRCs in your live environment. The following figure provides an example:



The update VRCs that are grouped in a VRC combination, for example, B61U_a_stnd and B61U_a_loca will be updated simultaneously.

The B61T_a_stnd and the B61T_a_loca are updated in the same way. These VRCs represent a test environment.

Note

If you do not have a localization and/or extension installed, you do not need a VRC combination. The only update VRC you need for your test environment is B61T_a_stnd.

To create a PMC test environment, take the following steps:

1. Start the *Generate Update VRC structure (ttpmc2240s000) (p. 4-4)* session and complete the following fields:
   - Always fill the **Package to Determine VRC Structure** field with the package **tf**. Do not use any other packages, such as **cp**.
   - You can choose any customer VRC extension for the **Update Customer** field. Note that the **Update Customer** fields are the five fields on the far right in the **VRC Information** group box. SSA recommends that you use **stnd** for standard VRCs and the same value as the base VRC customer code for localizations and extensions. If you do not have a localization installed, leave the **Localizations** fields blank.
   - Fill the **VRC Combination** field and a description. This step is not required if you do not have a localization installed.
   - The **Customization Type** field can contain any character, but the character **T** is recommended for a test.
   - Select the **Create Update VRCs** check box.
   - Clear the **Change Derivation of Other VRCs** check box to specify that you do not want to derive the current VRCs from the new update VRC.
   - Clear the **Update Package Combinations** check box to specify that you do not want to change the VRCs in package combinations.
2. If you do not yet have a package combination that contains the new VRC structure, you must create a package combination. Use the Package Combinations (ttaad1520m000) and Packages by Package Combination (ttaad1121m000) sessions to set up a package combination.
3. Start the Create Runtime Data Dictionary (ttadv5210m000) session.

   Enter the information in the dialog box. Click **Create Runtime** for all package combinations in the range of updated package combinations, you selected in the *Generate Update VRC structure (ttpmc2240s000) (p. 4-4)* session.

   Select all the options:

- Domains
- Tables
- Check before create runt.
- Reconfigure tables
- Sessions
- Print Errors

FTP to download software updates

If the dumps of the solutions you want to install are located on an FTP server, you can use the Multilevel Download tool to download the dumps. In this case, you must generate an FTP script, which must contain the server, user, and so on, to be used for downloading. You can use the *Generate ftp script (ttpmc2211s000) (p. 4-10)* session to generate the required FTP script.

The name of the generated FTP script is **ftpbaan** and is stored in the **$BSE/lib** directory on the ERP server.

The *Download, Scan and Connect Solution (Multi-Level) (ttpmc2210s000) (p. 4-11)* session uses the generated FTP script to make the connection to the FTP server and to download the solution dumps.

To install updates

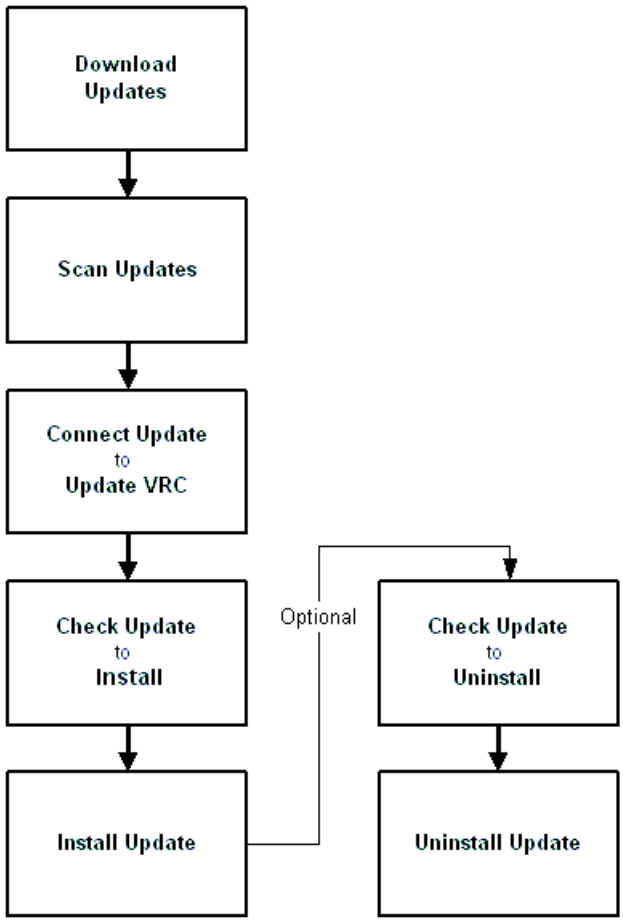
This section describes the procedures for the recipient of updates to manage the PMC administration.

The procedure consists of the following sections:

- Procedure steps
- Download updates
- Scan updates
- Connect update to update VRC
- Check to install
- Install
- Check to uninstall
- Uninstall

Procedure steps

This section illustrates the procedure steps to install software updates by means of PMC in a flowchart. The following sections provide a detailed explanation of the procedure.



Install Update Procedure

Download updates

To download updates you can use the *Download, Scan and Connect Solution (Multi-Level) (ttpmc2210s000) (p. 4-11)* session. The session automatically scans the downloaded solutions, and connects the solutions to the specified update VRC. The purpose of scanning the solutions is to make the solutions known to the system, and to identify installation conditions. After the solutions are scanned, you might find that the solutions cannot be installed unless other solutions are downloaded and installed as well. In that case, the session also downloads, scans and connects these solutions. This step is repeated, until all required solutions are downloaded, scanned, and connected. If the related solutions are already present on your system, but connected to another

VRC, the solutions are not downloaded again, but are only connected to the specified update VRC.

You can also download solutions manually, in which case you must also complete the following steps in this section. These steps are integrated in the *Download, Scan and Connect Solution (Multi-Level) (ttpmc2210s000) (p. 4-11)* session, and can be skipped if you downloaded the solutions using this session.

Note

You can only use this session can only be used for downloading if the solution dumps are published on the FTP server defined in the *Generate ftp script (ttpmc2211s000) (p. 4-10)* session.

Scan updates

After solutions are downloaded to the system, the first step to make the solutions available to the PMC registry is to scan the solution files by means of the *Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)* session. The solutions receive the status **Available** in the update VRC for which the scan is carried out. Scanned files can contain Service Packs, patches, collections, or individual solutions. All the relevant PMC data is stored in the PMC registry.

Connect update to update VRC

Use the *Connect Solutions/Patches to VRC (ttpmc2201s000) (p. 4-29)* session to make the solutions available in other update VRCs. You can disconnect the solutions by means of the *Disconnect Solutions/Patches from VRC (ttpmc2202s000) (p. 4-30)* session.

Check to install

All the following functionality is controlled by the *Process Solutions (ttpmc2101m000) (p. 4-14)* session and the *Process Patches (ttpmc2102m000) (p. 4-17)* session.

The solutions with the status **Available** that are connected to the update VRCs must be checked by means of the *Check Solution/Patch to Install (ttpmc2203s000) (p. 4-20)* session. The related solutions are checked as well. The solutions, including the related solutions, which must be installed receive the status **To Install**. Optionally, detailed information is given on customized components and components that exist in non-supported languages.

Install

You can install the solutions with status **To Install**, by means of the *Install Solution/Patch (ttpmc2205s000) (p. 4-23)* session. If the PMC registry was changed after the solution received the **To Install** status, the solution must be checked again before the solution can be installed. The related solutions

are installed as well. After the solutions are installed, the status of the solutions is **Installed**.

Check to uninstall

All the following functionality is controlled by the *Process Solutions (ttpmc2101m000) (p. 4-14)* session, the *Process Patches (ttpmc2102m000) (p. 4-17)* session and the *Installation runs (ttpmc2503m000) (p. 4-35)* session.

If a solution must be uninstalled, for example, because the solution was a bad fix, use the *Check Solution/Patch to Uninstall (ttpmc2206s000) (p. 4-24)* session. The solution status and the status of related solutions becomes **To Uninstall**.

Note

You can use **Check to uninstall** from the *Installation runs (ttpmc2503m000) (p. 4-35)* session if you want to uninstall all solutions that were installed together in one run, for example, a solution including all prerequisite solutions or solutions of a collection that were installed in a range.

Uninstall

Run the *Uninstall Solution/Patch (ttpmc2208s000) (p. 4-28)* session to set the status of the solution, including the related solutions, back to 'Available'.

Note

If during installation or uninstallation the process is stopped, for example, due to a system crash, process kill, and so on, the solution that was being processed at that point still has the status **Installing** or **Uninstalling**. With the next start of a processing session from the *Process Solutions (ttpmc2101m000) (p. 4-14)* session, PMC recognizes this situation and starts the stopped process again for the interrupted solution. If a sequence of solutions was to be installed or uninstalled, you must restart the process for the remaining solutions.

Miscellaneous topics

This section describes the following topics:

- Update policy
- Opening a patch
- PMC cleanup
- Removing an update VRC
- Shared memory on Windows platforms

Update policy

This section describes a procedure to install, test and make a new Service Pack operational in your live environment. The procedure minimizes the impact in terms of system downtime for the operational environment.

Scenario

Suppose you have installed the master product in VRC B61_a and Service Pack 1, including a number of individual solutions, on top of Service Pack 1 in update VRC B61U_a_stnd. This update VRC is linked to package combination b61au. Customizations are available in the B61U_a_cus VRC that is linked to the b61cus package combination. Various operational companies are linked to package combination b61cus.

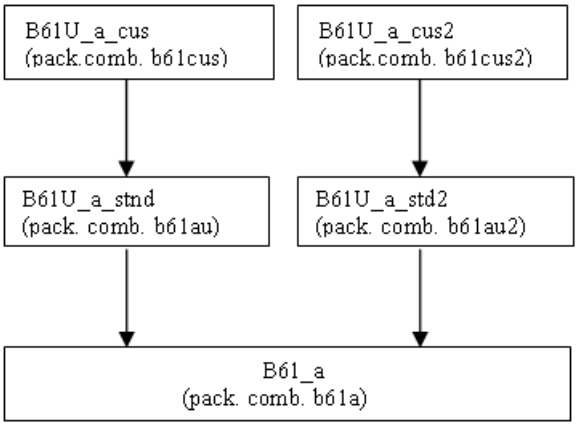
You now want to install Service Pack 2. However, you first want to explore the new Service Pack in a separate environment without disturbing the operational business.

Two methods are available to explore the new Service Pack in a test environment:

- **Method 1**
  Switch companies between VRC branches.
- **Method 2**
  Have a permanent separate test VRC branch.

The following table describes both methods in detail . Steps 1 through 7 in both methods are identical.

The following is the recommended update procedure for Service Packs:



Procedure for both methods	
1	Install Service Pack 2 in the new Update VRC, for example, B61U_a_std2. The new update VRC must be derived from the master product VRC B61_a. In addition, create

Procedure for both methods

	a new package combination, for example, b61au2. If you install the Service Pack using the SSA Installation Wizard, you can have the SSA Installation Wizard create the new update VRC and package combination automatically. The PMC tool guarantees that all individual solutions that were installed on top of Service Pack 1 in the B61U_a_stnd VRC will also be installed in the B61U_a_std2 VRC, if these solutions are not already included in Service Pack 2. Therefore, from a maintenance perspective, the B61U_a_stnd and B61U_a_std2 VRCs will be synchronous after installation of Service Pack 2.
2	Having companies linked to the b61au2 package combination enables you to investigate on runtime the behavior of the standard product without customizations. To achieve this, link one or more test companies to the new package combination b61au2. You can do this in various ways: ■ Install the demo companies that are included in the SP2 medium. ■ If you have existing test companies linked to the b61au package combination, you can relink these companies to the b61au2 package combination using the Change Package Combination by Company (ttaad1101m000) session. ■ Copy an existing company linked to package combination b61au using the Copy Company Data (tccom0214m000) session. Next relink the newly copied company to the b61au2 package combination using the Change Package Combination by Company (ttaad1101m000) session.
3	You can now explore the Service Pack 2 that is installed in the B61U_a_std2 VRC.
4	Create package VRCs B61U_a_cus2 and the related package combination b61cus2.
5	Copy the contents of the B61U_a_cus VRC to the B61U_a_cus2 VRC using the Copy Software Components to New Package VRC (ttadv6265m000) session. Make the b61cus2 package combination runtime using the Create Runtime Data Dictionary (ttadv5210s000) session. Note that, at this point, the customizations are still not synchronized with Service Pack 2.
6	Copy one or more companies linked to package combination b61cus using the Copy Company Data (tccom0214m000) session. Next relink the newly copied company to the b61cus2 package combination using the Change Package Combination by Company (ttaad1101m000) session.
7	After you explore the new Service Pack, upgrade customizations in the B61U_a_cus2 VRC, and prepare your organization to use the new Service Pack, verify whether additional solutions were installed in the B61U_a_stnd VRC after you performed Step 1. To perform this verification use the *Compare Installed Solutions (ttpmc2405s000) (p. 4-39)* session. Install the missing solutions in the B61U_a_std2 VRC as well. Synchronize the customizations again if required.

Procedure for both methods	
Method 1: Switch companies between VRC branches	
8	Transfer the operational companies from the b61cus to the b61cus2 package combination. To perform this transfer, use the Change Package Combination by Company (ttaad1101m000) session.
9	After complete the previous steps, all operational companies and users will be linked to the b61au2 package combination. To install the subsequent Service Pack 3, you must repeat the process, but now in the opposite direction: You install Service Pack 3 in the B61U_a_stnd update VRC. Again, you can, of course, create an additional VRC branch for Service Pack 3. However, this process requires more installation time and disk space. The test companies are relinked to the b61au package combination. Service Pack 3 is explored and finally the operational companies are linked to the b61au package combination.
In theory you can apply the same mechanism for patches. However, one important difference applies. Patches are not cumulative. Installation of a patch requires that you at least have installed the preceding patch. Therefore, you cannot directly install Patch 2 in the B61U_a_std2 update VRC. You first must install Patch 1, followed by the installation of Patch 2. In the same way, you first must install Patch 2 in update VRC B61U_a_stnd before you can install Patch 3.	
Method 2: Have a permanent separate test VRC branch	
8	Install Service Pack 2 in the B61U_a_stnd VRC. Copy the contents of the B61U_a_cus2 VRC to the B61U_a_cus VRC using the Copy Software Components to New Package VRC (ttadv6265m000) session. Make the b61cus2 package combination runtime using the Create Runtime Data Dictionary (ttadv5210s000) session.
9	To install the subsequent Service Pack 3, repeat the process.
In principle you can apply the same procedure for patches when you use Method 2.	

Advantages and disadvantages of both methods

Method 2 has the disadvantage that you must install Service Pack 2 twice. As a result the system downtime is greater if you use Method 2.

The system downtime for Method 1 consists of the following elements:

- Time required to reconfigure the application database and relink the company and users.

The system downtime for Method 2 consists of the following elements:

- Time required to install and make the Service Pack runtime.
- Time required to reconfigure the application database.

Open a patch

Only in exceptional situations you can decide not to carry out a complete installation of a patch, but to install a selection of one or more of the indiviual solutions contained in the patch. Therefore, you can open a patch to select individual solutions. To open a patch, you will require a password. To obtain a password contact SSA OnePoint Support. You can start the Open Patch (ttpmc2105s000) session from the **Specific** menu of the *Process Patches (ttpmc2102m000) (p. 4-17)* session.

Note

You cannot open a Service Pack.

PMC cleanup

Cleaning up PMC is useful for saving disk space. You can run the cleanup by means of the *PMC Cleanup (ttpmc2220m000) (p. 4-41)* session.

This session can clean up three types of PMC data:

- Solution dumps
- Uninstall dumps
- PMC registry

To remove an update VRC

Removing an update VRC can be useful for saving disk space and for a clear VRC structure. You can remove an update VRC by means of the *Delete Update VRC Structure (ttpmc2241s000) (p. 4-8)* session.

Shared memory on Windows platforms

At runtime, table definitions are stored in files in the operating system. To improve the performance of your SSA ERP LN system, you can load these runtime table definitions into the shared memory.

When table definitions are changed, you must reconfigure the corresponding tables.

On Microsoft x86 Windows machines, the shared memory is static. Changed table definitions are not automatically loaded into the shared memory.

After you install a PMC solution with changed table definitions, a mismatch exists between the new table definitions in the runtime data dictionary and the old definitions in the shared memory. A reconfiguration of the tables will, therefore, result in error messages.

To avoid this problem, you must remove the table definitions from the shared memory before the reconfiguration process starts.

To install a PMC solution with changed table definitions, and to reconfigure the corresponding tables successfully, take the following steps:

1. Move the $BSE\lib\srdd_tab6.2 file to a different folder.

2. Clear the shared memory:
   - Start the SSA Enterprise Server Service Manager snap-in.
   - Stop the shared memory for your BSE environment.
   - Close the SSA Enterprise Server Service Manager snap-in.
   - Restart the SSA Enterprise Server Service Manager snap-in.
   - Start the shared memory.
   - Click the **Loaded Shared Memory** tab in the **Shared Memory Properties** dialog box.
   - Verify whether all table definitions, as well as program objects and report objects, are removed from the shared memory. The shared memory must now only contain a number of tss files and unicode files.
3. Install the PMC solution.
4. Reconfigure the tables.
5. Log off from the SSA ERP application and log on again.
6. Run the Check Tables (ttaad4232m000) session.
7. Move the srdd_tab6.2 file back to the $BSE\lib folder.
8. Fill the shared memory:
   - Start the SSA Enterprise Server Service Manager snap-in
   - Stop the shared memory for your BSE environment.
   - Close the SSA Enterprise Server Service Manager snap-in.
   - Start the SSA Enterprise Server Service Manager snap-in again.
   - Start the shared memory.

The changed table definitions are now loaded into the shared memory.

Note

This procedure does not apply to UNIX platforms. On UNIX machines, the shared memory is dynamic. Changed table definitions are read directly from disk so that you can reconfigure tables immediately after the table definitions were changed.

Chapter 4
Detailed session descriptions

4

Parameters (ttpmc0100s000)

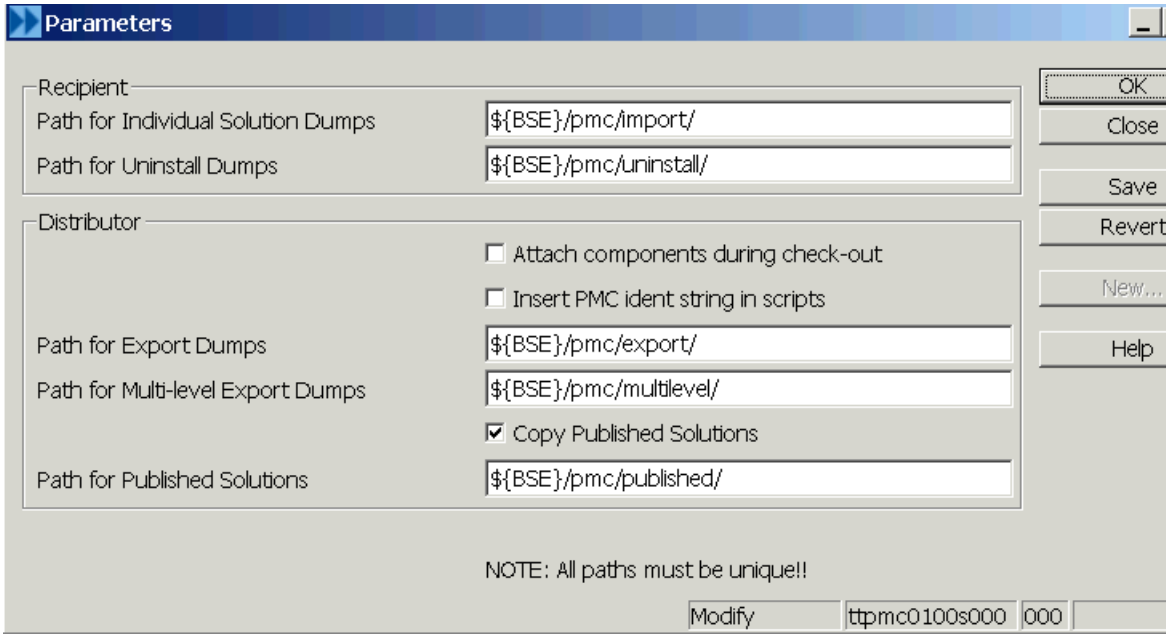
Use this session to maintain the parameters for the PMC module.

Several sessions in the PMC module require predefined data that is dependent on the environment. This data is stored in the parameter table. These parameters consist chiefly of the paths for import dumps and export dumps of solutions. If a directory does not exist, the directory is created after the user confirms.

Note

If you do not use PMC Distributor, leave the fields in the **Distributor** group box default.

The following figure shows the form of the session with the default field values:



Fields	Description
Recipient	
Path for Individual Solution Dumps	A directory where individual solution dumps are placed during the scanning process at the recipient system. If a solution must be installed, the dump is read from this directory.
Path for Uninstall Dumps	A directory where dumps, that are required to uninstall a solution or patch, are placed. The *Install Solution/Patch (ttpmc2205s000) (p. 4-23)* session or the *Check and Install Solutions (ttpmc2204s000) (p. 4-31)* session creates these dumps. The *Uninstall Solution/Patch (ttpmc2208s000) (p. 4-28)* session reads the dumps from this directory.
Distributor	
Attach components during check-out	If this check box is selected, you are asked to which PMC solution a component must be linked, if a component that is not yet linked to a solution is checked out using Software Configuration Management (SCM).
Insert PMC ident string in scripts	If this check box is selected, and a program script is checked out using SCM, an ident string containing the code of the solution is added to the source code of the script.

	Note This functionality is only available if the *Attach components during check-out (p. 4-4)* check box is also selected.
Path for Export Dumps	A directory where dumps are placed at the distributor side. The Export Solution/Patch (ttpmc1200s000) session places the dump in this directory. When a patch is created, the individual solution dumps are read from this directory and concatenated in the patch dump, which in turn will be placed in this directory. **Note** The solution file name is composed of the solution code and a constant suffix *.tar.gz*. For example solution code 1005 becomes *1005.tar.gz*. **Note** Collection dumps are placed in the Multilevel export directory.
Path for Multi-level Export Dumps	A directory in which dumps are placed at the distributor side. The Export Solution Multi-level (ttpmc1202s000) session places the dump in this directory. Exported collections are also placed in this directory. **Note** The solution file name is composed of the solution code and a constant suffix *.tar.gz*. For example, solution code 1005 becomes *1005.tar.gz*.
Copy Published Solutions	If this check box is selected, the dumps of solutions, collections, or patches that were marked as *Published* are copied to a separate directory at the moment these dumps are released.
Path for Published Solutions	A directory where dumps are placed at the distributor side when the solutions are published. This directory is a temporary location from which the solutions can be copied, for example, to an external FTP server. Customers can connect to that FTP server to download the software updates they want to install. The *Copy Published Solutions* field indicates whether or not this copy action must be carried out. Solutions are stored in separate subdirectories by base VRC. The customer part of the base VRC will be added to the solution file name. Refer to the following examples:

base VRC	solution code	solution file name
B61_a	1005	1005stnd.tar.gz
B61L_a_Spl0	1005	1005Spl0.tar.gz

Generate Update VRC structure (ttpmc2240s000)

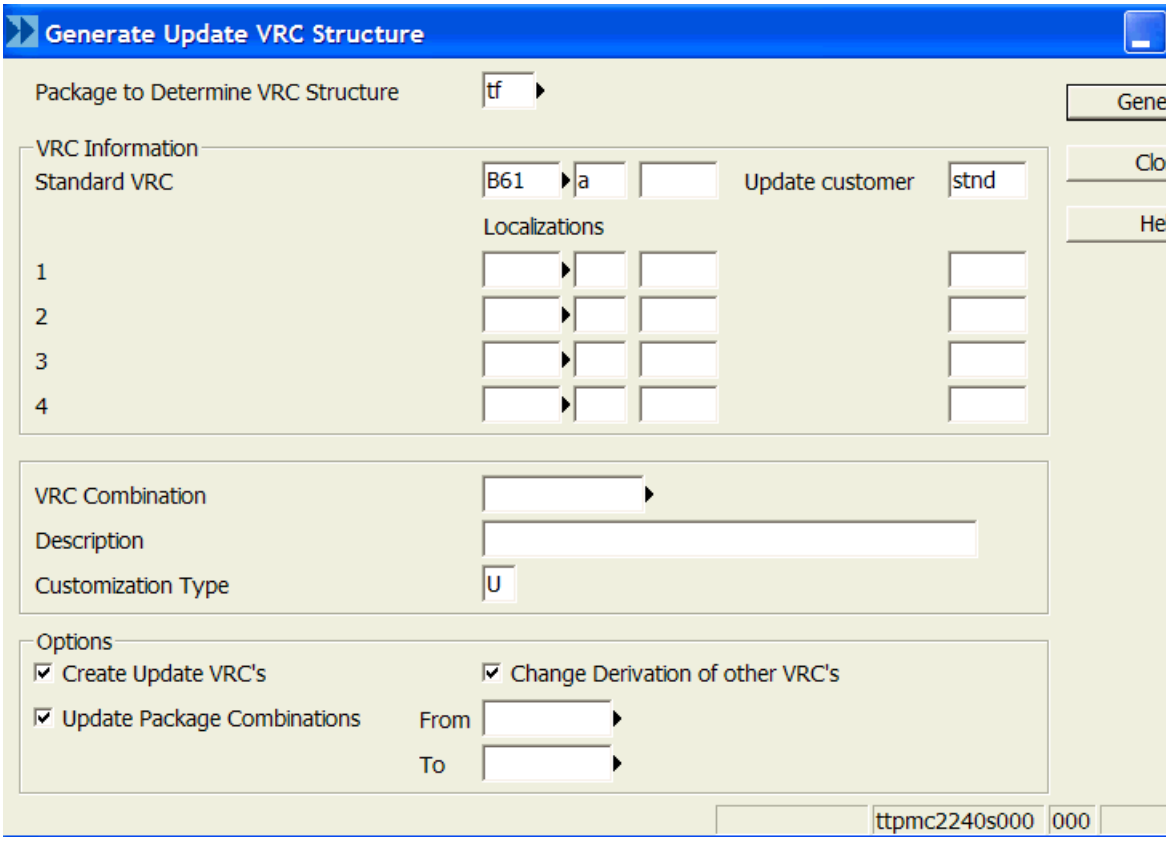
Use this session to create update VRC structures.

The session generates a new VRC and modifies the current VRC derivation structure. Usually, a customer cannot change the derivation of a localization, because a localization is considered as a standard VRC. PMC requires a localization that must be derived from the update VRC of the standard.

You must confirm when the update VRC is created. After all the steps are performed either by this session or manually, Service Packs and individual solutions can be installed.

You can start the session directly from the ERP menu. You can also start the session from the **Specific** menu of the *Update VRC's (ttpmc2140m000) (p. 4-7)* session.

The following figure shows the form of the session:



Fields	Description
Package to Determine VRC Structure	The package determines for which standard VRC and localization VRC update VRCs are created. It is assumed that the update VRC structure is the same for all packages, but the derivation structure uses the package code.
Standard VRC	The standard VRC for which the update VRCs must be created. By default, the root VRC is selected. To determine this VRC, the package you entered in the *Package to Determine VRC Structure* field is used. The session searches in the package VRCs for a version with the following characteristics: ■ The fourth position of the version code is blank. ■ The release number is the highest available. ■ The customer position is blank. Example 1: The VRCs B61_a, B61L_a1_sch0 and B61C_a1_cust are present. B61_a will be selected.

	example 2: The VRCs B61_a, B61_a1, B6_a2, B61_b, B61_b1 are present. B61_b1 will be selected.
Update customer	A customer code that will be used for the update VRC. **Note** The customer fields must be different from each other.
Localizations	The localization for which the update VRCs must be created.
VRC Combination	Optionally, a VRC combination can be entered or the description can be altered when the combination exists. The created update VRCs will be connected to this VRC combination. **Note** For the SSA ERP Tools package, no update VRCs and no VRC combinations are used. Solutions for Tools are imported in the standard Tools VRC. For more information, refer to the Help of the following sessions: ■ *Update VRC's (ttpmc2140m000) (p. 4-7)* ■ *VRC Combinations (ttpmc2150m000) (p. 4-9)*
Customization Type	A character that indicates the type of customization. For example, if the customization is an update, you can enter a "U". This character is used on the fourth position of the version code: B61U. **Note** B, C, D, J, O and L are not allowed.
Create Update VRC's	If this check box is selected, update VRCs are created.
Change Derivation of other VRC's	If this check box is selected, the VRCs that are derived from the specified standard VRC and localization VRC are now derived from the update VRC.
Update Package Combinations	If this check box is selected, the effected package combinations will be updated. This means that package combinations that were on B61_a level will be changed to the update VRC, which is derived from B61_a.
Package Combination	package combination

Commands	Description
Generate	Generates the update VRC structure.

Update VRC's (ttpmc2140m000)

Use this session to maintain the update VRCs.

This session registers the update VRCs to which solutions can be connected.

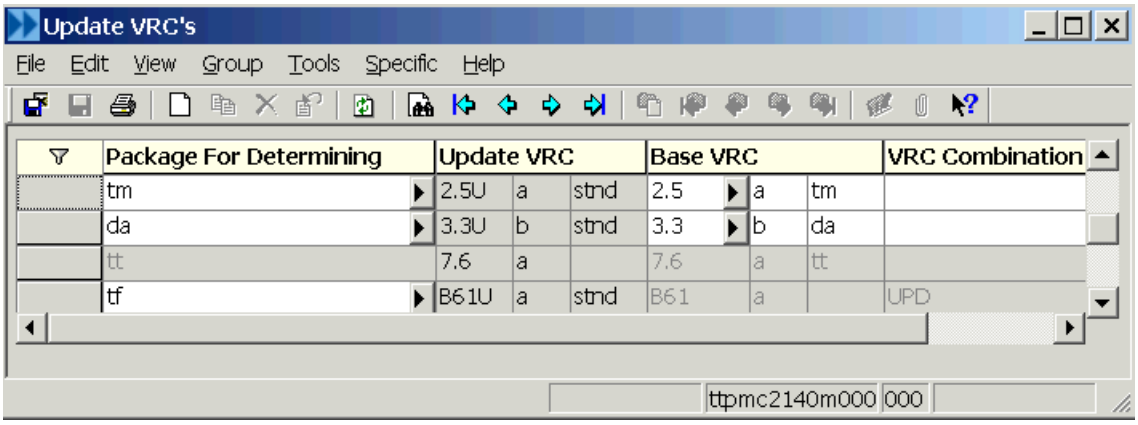
You can also link update VRCs to a VRC combination.

For the SSA Enterprise Server (Tools) package no update VRC is used. Solutions for the Tools package are imported in the standard Tools VRC. You still must make the Tools VRC known in PMC.

If a solution is connected to the update VRC, you cannot:

- Delete the update VRC.
- Change the base VRC of the update VRC.

The following figure shows the form of the session:



Fields	Description
Package For Determining Derivation Structure	The package that is used as basis for the VRC derivation structure. Use the package with the most extensive structure.
Update VRC	update VRC
Base VRC	base VRC **Note** Do not connect a base VRC for the standard to an update VRC of a localization, or vice versa.

VRC Combination	VRC combination

Commands	Description
Generate Update VRC structure	Starts the *Generate Update VRC structure (ttpmc2240s000) (p. 4-4)* session.
Delete Update VRC Structure	Starts the *Delete Update VRC Structure (ttpmc2241s000) (p. 4-8)* session. Use this session to delete an update VRC structure that is generated by the *Generate Update VRC structure (ttpmc2240s000) (p. 4-4)* session.
Patches by Update VRC	Starts the *Process Patches (ttpmc2102m000) (p. 4-17)* session.
Solutions by Update VRC	Starts the *Process Solutions (ttpmc2101m000) (p. 4-14)* session.
History Base VRCs	Starts the *History Base VRCs (ttpmc2541m000)* session.
Print Solution/Patch by Update VRC	Starts the Print Solution/Patch by Update VRC (ttpmc2401m000) session.
Print Dependencies by Update VRC (Multi-level)	Starts the Print Dependencies by Update VRC (Multi-level) (ttpmc2440m000) session.
Print Solution/Patch History	Starts the Print Solution/Patch History (ttpmc2460m000) session.
Compare Installed Solutions	Starts the *Compare Installed Solutions (ttpmc2405s000) (p. 4-39)* session.
Print Solution/Patch	Starts the Print Solution/Patch (ttpmc1400m000) session.

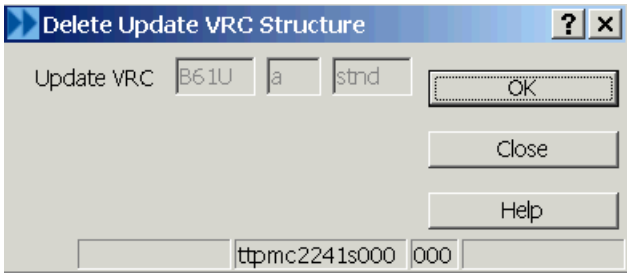
Delete Update VRC Structure (ttpmc2241s000)

Use this session to delete an update VRC structure.

You can only delete an update VRC if the following conditions are met:

- No solutions are connected to the update VRC.
- No software components are present in the update VRC.
- The update VRC does not exist in a Package Combination.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC

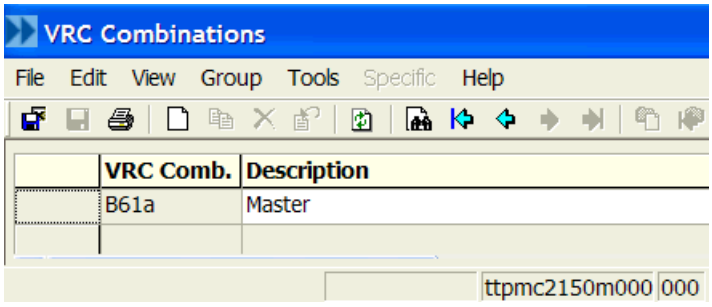
Com-mands	Description
OK	Deletes the VRC structure.

VRC Combinations (ttpmc2150m000)

Use this session to maintain the VRC combinations.

To be able to handle the dependencies between solutions in various base VRCs, you must define relationships between the update VRCs. Update VRCs that are related can be the update VRC of the standard and the update VRC of a localization. If a co-requisite dependency exists between two solutions in different base VRCs, the second solution is only installed together with the first if both update VRCs are present in the same VRC combination. In this session, the VRC combinations are stored. The update VRCs are connected to the VRC combination in the *Update VRC's (ttpmc2140m000) (p. 4-7)* session.

The following figure shows the form of the session:



Fields	Description
VRC Comb.	A unique code for the VRC combination.

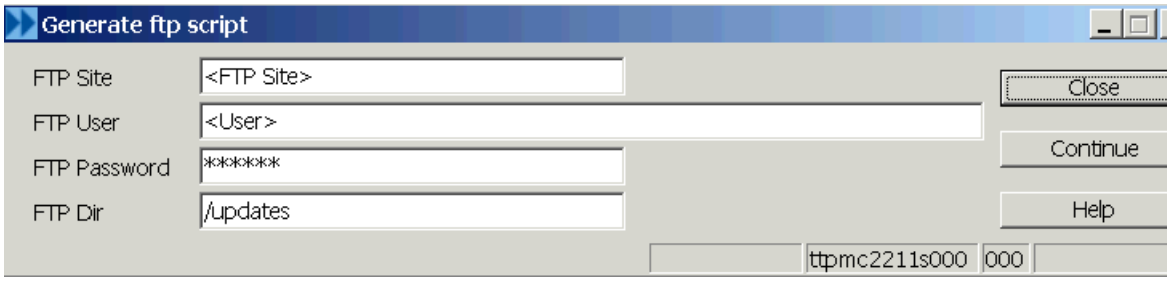
Commands	Description
Print VRC Combinations	Starts the Print VRC Combinations (ttpmc2450m000) session.

Generate ftp script (ttpmc2211s000)

Use this session to specify some basic data required to download updates from an external server.

You can download solutions using the *Download, Scan and Connect Solution (Multi-Level) (ttpmc2210s000) (p. 4-11)* session.

The following figure shows the form of the session:



Fields	Description
FTP Site	The address of the FTP site, for example: ftp.support.baan.com .
FTP User	The user name that is used when connecting to the FTP site.
FTP Password	The password that is used when connecting to the FTP site. **Note** The password is stored unencrypted in the $BSE/lib directory. To change this, you can leave this field blank. In that case, you are prompted to enter your password the moment you start to download. However, if you do not specify a password in this field, you cannot run the *Download, Scan and Connect Solution (Multi-Level) (ttpmc2210s000) (p. 4-11)* session as a job.

FTP Dir	The directory on the FTP server from which you want to download the solutions, for example: */updates*.

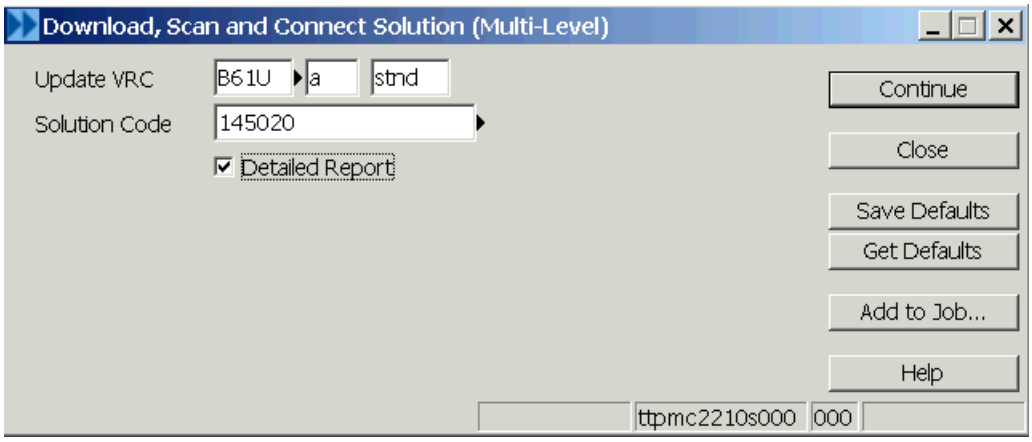
Commands	Description
Continue	Saves the entered data into the *$BSE/lib/ftpbaan* file.

Download, Scan and Connect Solution (Multi-Level) (ttpmc2210s000)

Use this session to download, scan, and connect solutions, including the related solutions. You can also use this session for collections, but in that case, the session only downloads and scans the specified collection; related solutions are not downloaded.

This session is used as a single solution installation tool. The session was created to incorporate particular steps in PMC. The tool is designed to eliminate the long process of locating a solution on the external FTP server, downloading the solution, and checking the solution for dependencies. You then must repeat the process for any dependencies found. By incorporating all of these processes, you can have PMC do the work for you. Using the Multilevel Download tool, your time spent with dependency checks will dramatically decrease.

The following figure shows the form of the session:



Procedure

The session locates a solution and any missing prerequisites. The Multilevel Download Tool then downloads the solutions from the external FTP server and scans the solutions into PMC in the *Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)* session.

The solutions are then moved to the **Available** status in the *Process Solutions (ttpmc2101m000) (p. 4-14)* session. In addition, the solutions are currently waiting to be checked for installation.

You must know which solution you want to download when you run this session.

This session performs the following process:

1. Downloads the specified solution for the specified update VRC. Because a solution can exist for various base VRCs, you must specify the update VRC that has a relation to a base VRC.
2. Scans the downloaded solution, which means that the solution is registered in the registry of solutions, and connected to the specified update VRC. If the solution has a pre-requisite relation and/or a co-requisite relation with one or more other solutions, and these other solutions are not yet connected to the specified update VRC, the session downloads and connects these solutions as well:
   - If the solutions were downloaded and registered previously, and connected to another update VRC, these solutions are connected to the specified update VRC. A solution can be connected to several update VRCs.
   - If the solutions were not downloaded previously, the solutions are downloaded, registered and connected to the specified update VRC.

   This step repeats, because the connected and/or downloaded solutions are also scanned, and the solutions they require are also downloaded, registered, connected, and so on.

Note

Before you can download solutions, you must specify some basic data for the connection with the FTP server. Use the *Generate ftp script (ttpmc2211s000) (p. 4-10)* session to specify this data. If you did not specify a password in that session, you are prompted for a password when you run the current session. However, in that case, you cannot run the current session as a job.

You can also download solutions manually. Patches are always copied manually. In both cases, you must scan and connect the solutions using the *Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)* session.

Fields	Description
Update VRC	update VRC
Solution Code	A unique identification code for the solution.

Detailed Report	If this check box is selected, a detailed report is generated that displays all the solutions that were processed, even if the solutions were already installed or connected. If you do not select the detailed report, only error messages are printed.

Commands	Description
Continue	Starts the process to download, scan, and connect solutions.

Scan Solution/Patch File (ttpmc2200s000)

Use this session to scan an export dump containing one or more solutions, which is placed on the recipient system. You can also use this session to scan collections and patches.

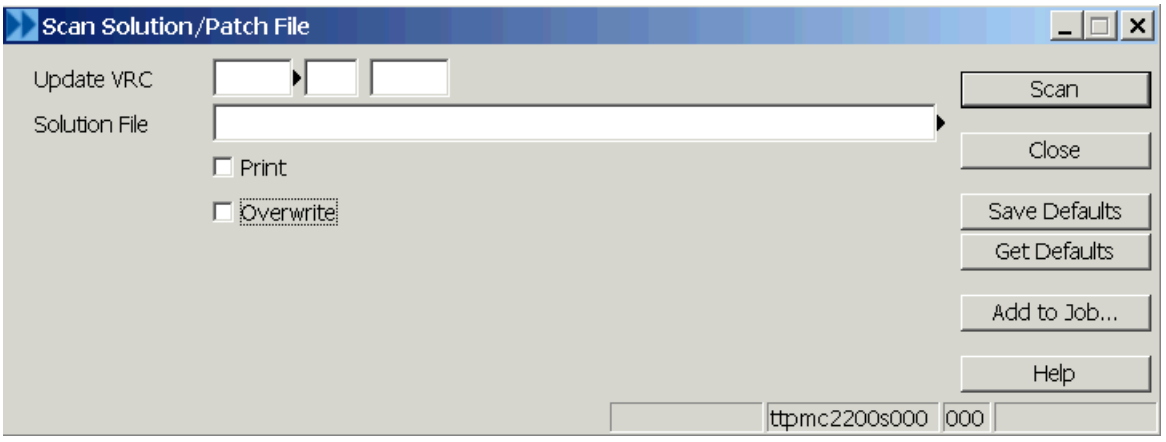
The scanning process performs the following actions:

1. Store the solution information in the registry of solutions.
2. Copie the solution dumps to the directory specified in the *Path for Individual Solution Dumps (p. 4-4)* field in the *Parameters (ttpmc0100s000) (p. 4-1)* session.
3. Connect the solutions to an update VRC.

This scanning process connects the solutions only to the specified update VRC. If solutions are required in other VRCs, for example, a test update VRC, the solutions can be connected to that VRC by means of the *Connect Solutions/Patches to VRC (ttpmc2201s000) (p. 4-29)* session.

A report can be printed that lists the solutions contained in the scanned dump file.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Solution File	The name of a file or directory. If a file is specified, this file is scanned. If a directory is specified, all solutions, collections, and/or patches in the directory are scanned. **Note** If a file is scanned a second time, the information in the registry of solutions can be overwritten, depending on the selection of the *Overwrite* check box.
Print	If this check box is selected, a report is printed that lists the solutions found in the file or directory specified in the *Solution File* field.
Overwrite	If this check box is selected, the solution information in the registry is overwritten when a file is scanned a second time, unless the solutions were already installed in at least one update VRC.

Commands	Description
Scan	Scans the dump of the solution(s).

Process Solutions (ttpmc2101m000)

Use this session to display the solutions that are present in the registry of solutions and connected to the specified update VRC.

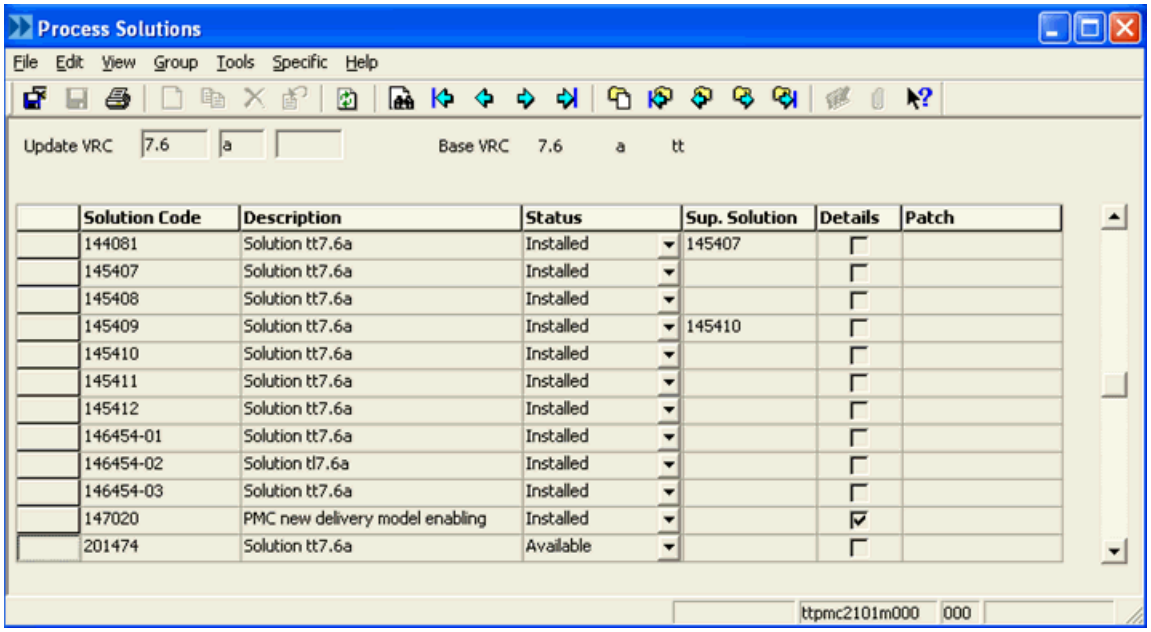
Solutions can be registered in the registry of solutions, and connected to an update VRC by means of one of the following sessions:

- *Download, Scan and Connect Solution (Multi-Level) (ttpmc2210s000) (p. 4-11)*
- *Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)*
- *Connect Solutions/Patches to VRC (ttpmc2201s000) (p. 4-29)*

This session is the central session in the total solutions process at the recipient system. After scanning, you can initiate all the further actions for individual solutions from this session.

This session also shows whether installation instructions are present for a solution.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Base VRC	base VRC
Solution Code	A unique identification of the solution in a base VRC. The same solution can exist in several base VRCs. If this occurs, the solutions must be connected to each other by a co-requisite relationship.
Status	status
Sup. Solution	The code of a superseding solution, if a superseding solution is present. A superseding solution is installed instead of the superseded solutions. However, the status of the superseded solution is nevertheless changed to **Installed**.
Details	If this check box is selected, a text with pre-installation and/or post-installation instructions is present. Click **Text** to read the text. The instructions are marked with one of the following symbols ■ **<** Pre-installation instructions.

- **>** Post-installation instructions.

Patch	The patch code to which the solutions are linked.

Commands	Description
Components	Starts the *Components by solution (ttpmc1521m000) (p. 4-19)* session.
Dependencies	Starts the *Dependencies (ttpmc1541m000) (p. 4-19)* session.
Check to Install	Starts the *Check Solution/Patch to Install (ttpmc2203s000) (p. 4-20)* session.
Check and Install	Starts the *Check and Install Solutions (ttpmc2204s000) (p. 4-31)* session. Use this session to combine the check and the installation. If the check returns no problems, the solution is immediately installed.
Install	Starts the *Install Solution/Patch (ttpmc2205s000) (p. 4-23)* session.
Check to Uninstall	Starts the *Check Solution/Patch to Uninstall (ttpmc2206s000) (p. 4-24)* session.
Uninstall	Starts the *Uninstall Solution/Patch (ttpmc2208s000) (p. 4-28)* session.
Connect to Update VRC	Starts the *Connect Solutions/Patches to VRC (ttpmc2201s000) (p. 4-29)* session, which makes the solution available for an update VRC if the solution was already scanned for another update VRC. Both update VRCs must have the same base VRC. If the solution was scanned in the first VRC, the status of the solution is at least **Available**. In this way, you can scan a solution once, for example, for your live environment, and make the solution available for installation in a test environment.
Disconnect from Update VRC	Starts the *Disconnect Solutions/Patches from VRC (ttpmc2202s000) (p. 4-30)* session, which undoes the action described in the *Connect to Update VRC* field.
Solution History	Starts the *Solution History (ttpmc2560m000) (p. 4-39)* session.
Print Solution/Patch by Update VRC	Starts the Print Solution/Patch by Update VRC (ttpmc2401m000) session.

Print Dependencies by Update VRC (Multi-level)	Starts the Print Dependencies by Update VRC (Multi-level) (ttpmc2440m000) session.
Print Solution/Patch History	Starts the Print Solution/Patch History (ttpmc2460m000) session.
Print Solution/Patch	Starts the Print Solution/Patch (ttpmc1400m000) session.

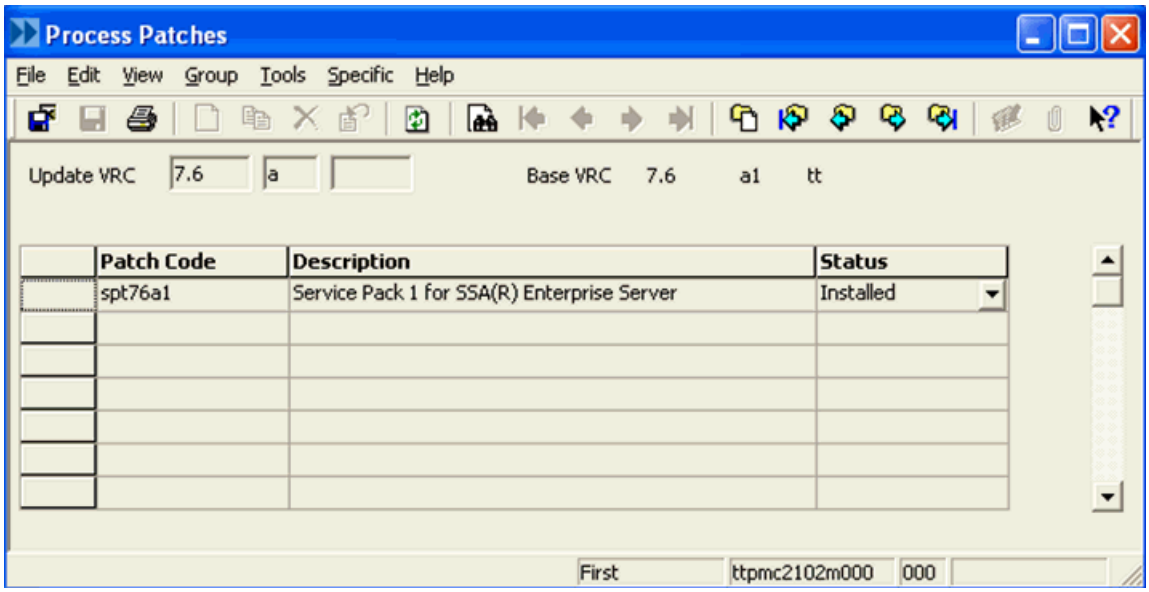
Process Patches (ttpmc2102m000)

Use this session to display the patches that are present in the registry of solutions and connected to the specified update VRC.

Before you can process a patch, you must scan the patch using the *Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)* session.

The current session is the central session within the total patch process at the recipient system. After scanning, you can initiate all further actions for patches from this session.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Base VRC	base VRC

Patch Code	A unique identification of the patch in a base VRC. The same patch can exist in various base VRCs. If this occurs, the patches must be connected to each other by a co-requisite relationship.
Status	status

Commands	**Description**
Open Patch	Starts the Open Patch (ttpmc2105s000) session. You can only open a patch, if you have a password.
Dependencies	Starts the *Dependencies (ttpmc1541m000) (p. 4-19)* session.
Check and Install	Starts the *Check and Install Solutions (ttpmc2204s000) (p. 4-31)* session. Use this session to combine the check and the installation. If the check returns no problems, the solution is immediately installed.
Check to Install	Starts the *Check Solution/Patch to Install (ttpmc2203s000) (p. 4-20)* session.
Install	Starts the *Install Solution/Patch (ttpmc2205s000) (p. 4-23)* session. You can only start this session if the status of the patch is **To Install**.
Check to Uninstall	Starts the *Check Solution/Patch to Uninstall (ttpmc2206s000) (p. 4-24)* session. You can only start this session if the status of the patch is **Installed**.
Uninstall	Starts the *Uninstall Solution/Patch (ttpmc2208s000) (p. 4-28)* session. You can only start this session if the status of the patch is **To Uninstall**.
Connect to Update VRC	Makes the patch available for an update VRC, if the patch was already scanned for another update VRC. If a patch is made available, all solutions in the patch are made available. Both update VRCs must have the same base VRC. If the patch was scanned in the first VRC, the status of the patch is at least **Available**. In this way you can scan a patch once, for example, for your live environment, and make the patch available for installation in a test environment.
Disconnect from Update VRC	Undoes the action described in the *Connect to Update VRC* field.

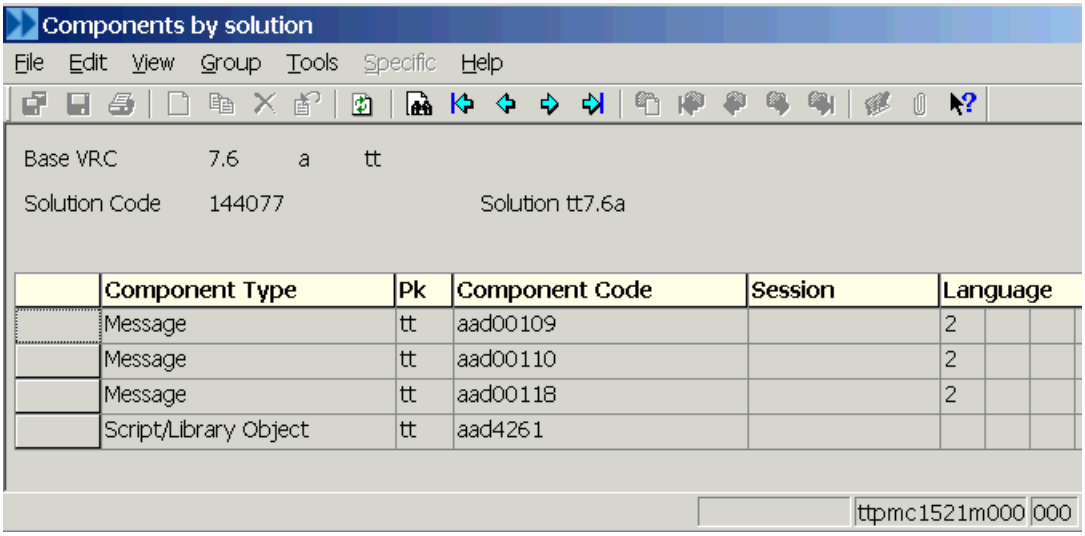
Solution History	Starts the *Solution History (ttpmc2560m000) (p. 4-39)* session.
Print Solution/Patch by Update VRC	Starts the Print Solution/Patch by Update VRC (ttpmc2401m000) session.
Print Dependencies by Update VRC (Multi-level)	Starts the Print Dependencies by Update VRC (Multi-level) (ttpmc2440m000) session.
Print Solution/Patch History	Starts the Print Solution/Patch History (ttpmc2460m000) session.
Print Solution/Patch	Starts the Print Solution/Patch (ttpmc1400m000) session.

Components by solution (ttpmc1521m000)

Use this session to view the software components that are linked to a solution.

You can start the session from the **Specific** menu of the *Process Solutions (ttpmc2101m000) (p. 4-14)* session.

The following figure shows the form of the session:

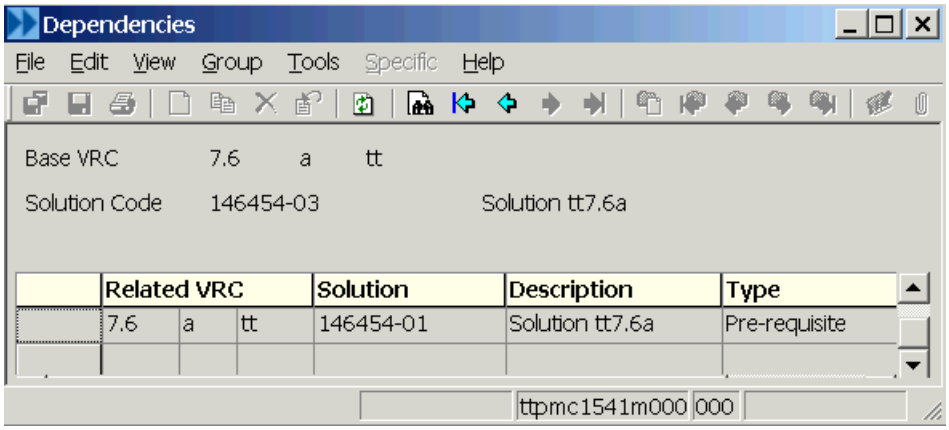


Dependencies (ttpmc1541m000)

Use this session to view the dependencies between solutions or patches.

You can start he session from the **Specific** menu of either the *Process Solutions (ttpmc2101m000) (p. 4-14)* session or the *Process Patches (ttpmc2102m000) (p. 4-17)* session.

The following figure shows the form of the session:



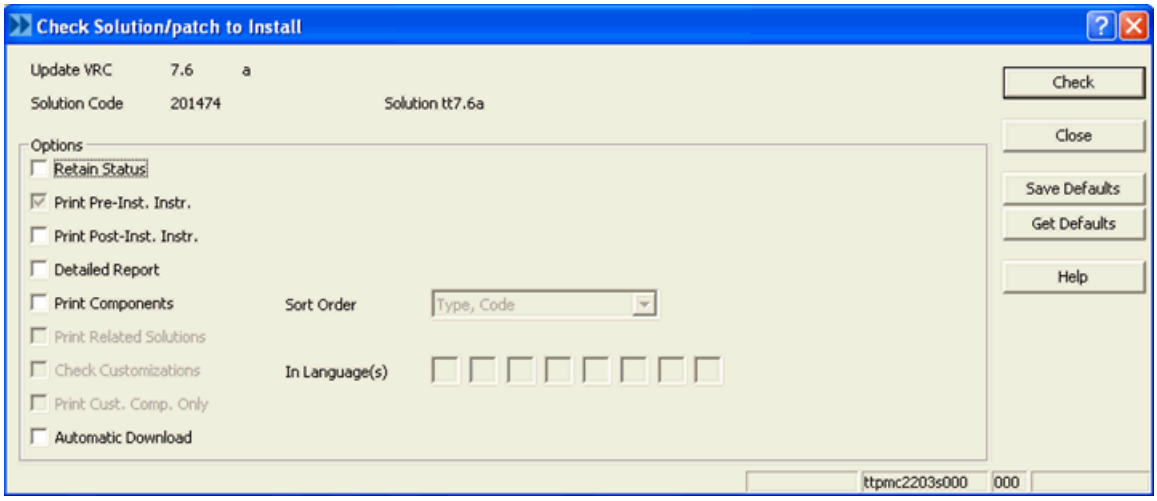
Check Solution/Patch to Install (ttpmc2203s000)

Use this session to check if the solutions can be installed. The session also signals the problems in regard to customizations.

You can only start this session from either the *Process Solutions (ttpmc2101m000) (p. 4-14)* session or the *Process Patches (ttpmc2102m000) (p. 4-17)* session.

The session works on solutions that are present in the registry of solutions. The check is always carried out on multi level. As a result, all related solutions, which include pre-requisites, co-requisites, and post-requisites, are checked.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Solution Code	A unique identification of the solution or patch in a base VRC.
Retain Status	Use this option if you want to check the solutions, but do not want to change the status of the solutions to **To Install**. This option is useful if you only want to see the consequences of a particular solution. The Check Solutions report shows the status, the solution would receive. However, if you look in the *Process Solutions (ttpmc2101m000) (p. 4-14)* or *Process Patches (ttpmc2102m000) (p. 4-17)* session, you will still see the former status.
Print Pre-Inst. Instr.	Use this option to print the pre-installation nstructions in a separate section on the Check Solutions report. This option is mandatory if you did not select the *Retain Status (p. 4-22)* option.
Print Post-Inst. Instr.	Use this option to print the post-installation instructions in a separate section on the Check Solutions report.
Detailed Report	Use this option to print a detailed report with all solutions that will be installed. The Solution details are printed in a separate section of the Check Solutions report. For each solution the pre-installation instructions, post-installation instructions, components by solution, and dependencies are printed. This option is independent of the use of the corresponding options: ■ *Print Pre-Inst. Instr. (p. 4-22)* ■ *Print Post-Inst. Instr. (p. 4-22)* ■ *Print Components (p. 4-22)*
Print Components	Use this option to print the components of all solutions that will be installed in a separate section of the *Check Solutions* report. To print only customized components, you can use the *Check Customizations (p. 4-22)* and *Print Cust. Comp. Only (p. 4-22)* options.
Sort Order of Components	In this field, you can specify how the components must be sorted in the solution details section and/or the components section of the Check Solutions report. **Type, Code** The components are sorted by Component Type and Component Code.

	Code, Type The components are sorted by Component Code and Component Type. Use this choice if you want to see the various components of a session, which include session, form, script/object, and reports, together.
Print Related Solutions	Use this option to print in the Components section of the Check Solutions report the solution codes of the solutions that contain the component.
Check Customizations	Use this option to check all components of the solutions to be installed, whether the components are customized or not. This option is applicable if you chose the *Detailed Report (p. 4-22)* and/or the *Print Components (p. 4-22)* option. The components of a solution will be installed in the update VRC. If the same component also exists in a VRC on top of this update VRC, this component is reported for every package combination that contains the update VRC. Language-dependent components are checked and, if customized, reported for every language you specify in the *In Language(s) (p. 4-22)* field. If a component is present in a VRC higher than the update VRC, but a co-requisite solution is present that contains the same component for that higher VRC, the component is not reported. **Note** The presence of customizations will not block the solution for installation.
In Language(s)	In this field, you can specify the languages for which the customizations must be checked. The more languages you specify, the longer the session will run. SSA recommends that you specify only the languages for which customized components always exist.
Print Cust. Comp. Only	Use this option to print the customized components only. This applies to both the solutions details section and the components section of the Check Solutions report.
Automatic Download	If this check box is selected, missing solutions will be downloaded from the FTP server automatically. **Note** The FTP script must be generated previously by the *Generate ftp script (ttpmc2211s000) (p. 4-10)* session.

Install Solution/Patch (ttpmc2205s000)

Use this session to install the solution. The solutions are installed multilevel. In addition, the previous version of the components to install is saved to be able to uninstall the solution.

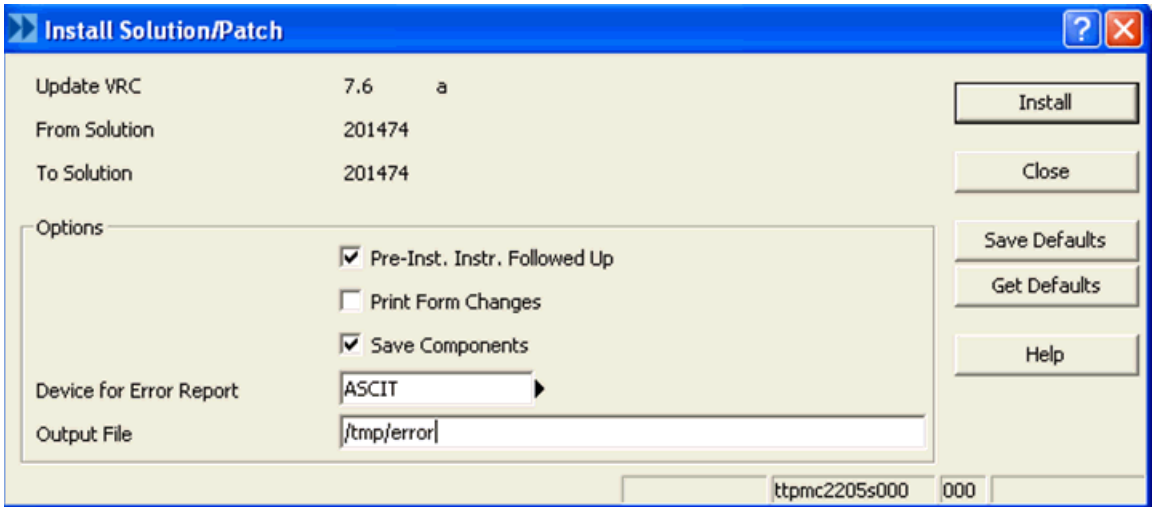
You can only start this session either from the *Process Solutions (ttpmc2101m000) (p. 4-14)* or *Process Patches (ttpmc2102m000) (p. 4-17)* session. The session works on solutions that are present in the registry of solutions and have the **To Install** status.

If pre-installation instructions are present for one of the solutions to be installed and the *Pre-Inst. Instr. Followed Up* check box is not selected, none of the solutions will be installed.

Upon installation, all post-installation instructions are printed, along with the instructions for convert to runtime data dictionary and create runtime data dictionary, if the solutions contain components for which this is required.

Only user **root** or a user who is defined as a superuser in SSA ERP can run this program.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Solution Code	A unique identification of the solution or patch within a base VRC.
Pre-Inst. Instr. Followed Up	Use this option to inform the system that you took action on the pre-installation instructions. If you not select this option, the solutions will not be in-

	stalled if any solution exists with pre-installation instructions attached to it.
Print Form Changes	If this check box is selected, and the solutions you install contain new forms, the changes between the old forms and the new forms are printed in a report. This can be helpful to detect problems with the authorizations of the forms.
Save Components	Use this option to be able to uninstall the individual solution or patch again. PMC creates an uninstall dump for each solution that is installed.
Device for Error Report	Use this field to specify the device for the error report that can be created during the creation of the uninstall dumps. This device must be a real printer or a device of type **Append to File**. **Note** In general, you can ignore this report. The report lists missing components in the current environment, for example, sources or objects, which cannot be found. If the components are not present before the installation of a solution, the components do not need to be restored during the uninstallation of a solution.
Output File	In this field, you must specify a file to which the error report must be written if your device is of type **Append to File**.

Commands	Description
Install	Installs the solution or patch.

Check Solution/Patch to Uninstall (ttpmc2206s000)

Use this session to check to see if you can uninstall the solutions.

You can start this session from the following sessions:

- *Process Solutions (ttpmc2101m000) (p. 4-14)* for a solution.
- *Process Patches (ttpmc2102m000) (p. 4-17)* for a patch.
- *Installation runs (ttpmc2503m000) (p. 4-35)* for an installation run.

The session works on solutions that are present in the registry of solutions. The check is always carried out multilevel. As a result all solutions that have the current solution as a related solution, pre-requisites, co-requisites, and post-requisites, are checked. One exception applies: see the *Ignore Post-Requisites (p. 4-28)* field for more information.

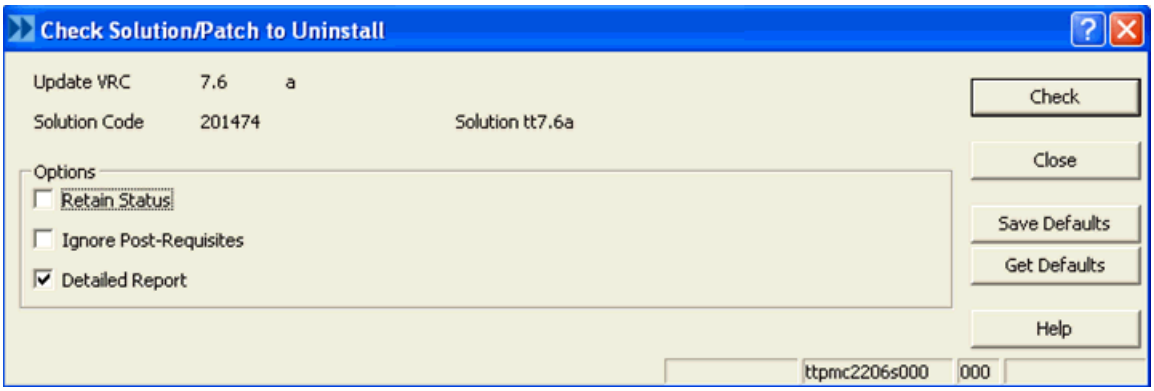
Before the check is carried out, all solutions of the given update VRC and other update VRCs in the VRC combination that have the status **To Uninstall**, are set back to status **Installed**.

This session sets the status of the solutions that are checked, and that satisfy the conditions to be uninstalled, and have the status **Installed**, to **To Uninstall**, unless you select the *Retain Status (p. 4-28)* option.

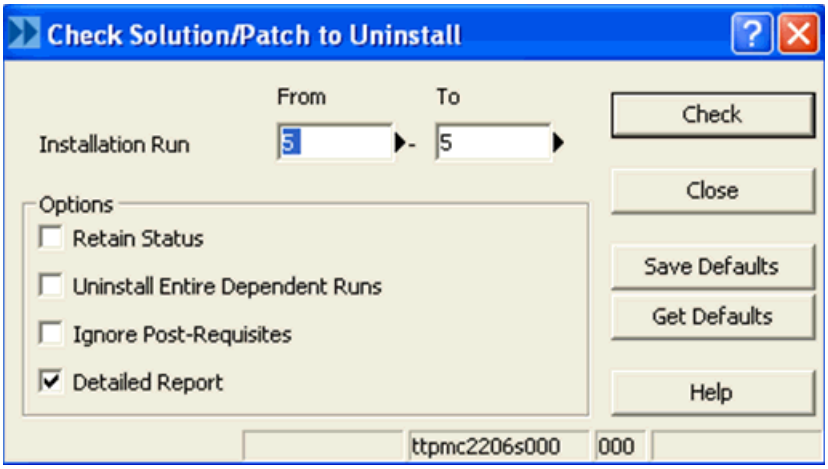
If a superseding solution is checked to be uninstalled, the solution's superseded solutions also receives the status **To Uninstall**. If the superseded solution belongs to a closed patch, you need the password for the patch to be able to uninstall the superseding solution.

The next step is to uninstall the solutions.

The following figure shows the forms of the session if you start the session either from the *Process Solutions (ttpmc2101m000) (p. 4-14)* session or the *Process Patches (ttpmc2102m000) (p. 4-17)* session.

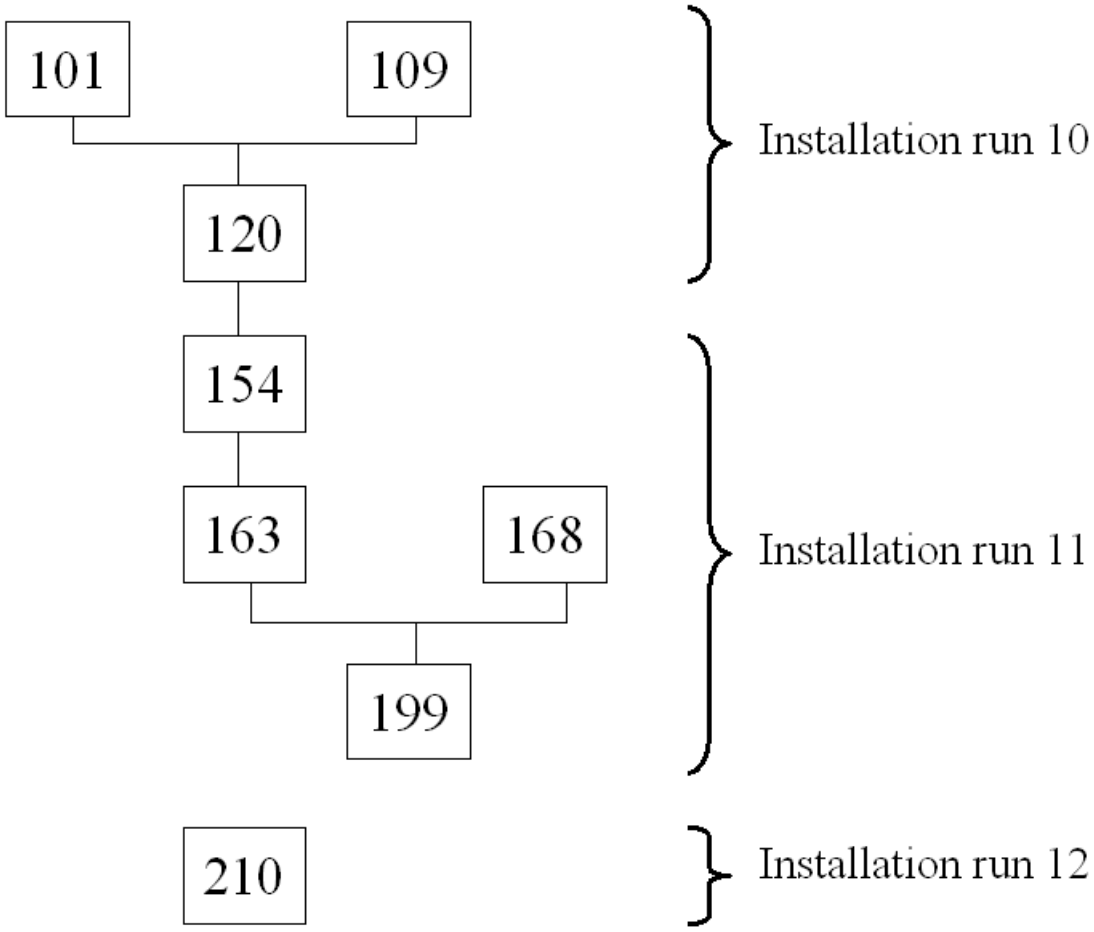


The following figure shows the form of the session if you start the session from the *Installation runs (ttpmc2503m000) (p. 4-35)* session.



Fields	Description
Update VRC	update VRC
Solution Code	A unique code of the solution or patch in a base VRC.
Installation Run	installation run.
Retain Status	Select this option if you want to check the solutions, but you do not want to change the status of the solutions to **To Uninstall**. This option is useful if you only want to see the consequences of the uninstallation of a particular solution. The Check Solutions to Uninstall report shows the status that the solution would receive. However, if you look in the *Process Solutions (ttpmc2101m000) (p. 4-14)* session or the *Process Patches (ttpmc2102m000) (p. 4-17)* seesion, you still see the former status: **Installed**.
Uninstall Entire Dependent Runs	Select this option to uninstall only the solutions of the specified installation runs and the dependent solutions, or the other solutions of the installation run in which a dependent solution is installed. Example:

Assume you have the following Solutions installed:



Example: Installed Solutions

You want to uninstall Installation run 10. Because of the defined dependencies, you must also uninstall solutions 154, 163, and 199. With this field, you can control whether solution 168 will also be uninstalled.

Solution 210 will not be uninstalled, because the solution's installation run does not contain a dependent solution.

To uninstall all solutions as of a particular point, you can use the installation run range, for example, 10 to 999999.

Yes

All solutions of an installation run will be uninstalled if one or more solutions must be uninstalled, due to the defined dependencies.

	No Only dependent solutions outside the given installation run range will be uninstalled.
Ignore Post-Requisites	Select this check box to ignore post-requisite dependencies. A post-requisite dependency is defined between an old solution and a new solution if the old solution was incorrect. **Yes** Post-requisite dependencies are ignored. This implies that the older solution remains **Installed**. However, if both solutions are installed in the same installation run, both solutions will be uninstalled. **No** Post-requisite dependencies are not ignored. The older solution is also uninstalled.
Detailed Report	Select this check box to print a detailed report with all solutions that will be uninstalled. The solution details are printed in a separate section of the Check Solutions to Uninstall report. For each solution, the dependencies are printed.

Uninstall Solution/Patch (ttpmc2208s000)

Use this session to uninstall the solution. The uninstallation is carried out on multilevel.

You can start this session from the following sessions:

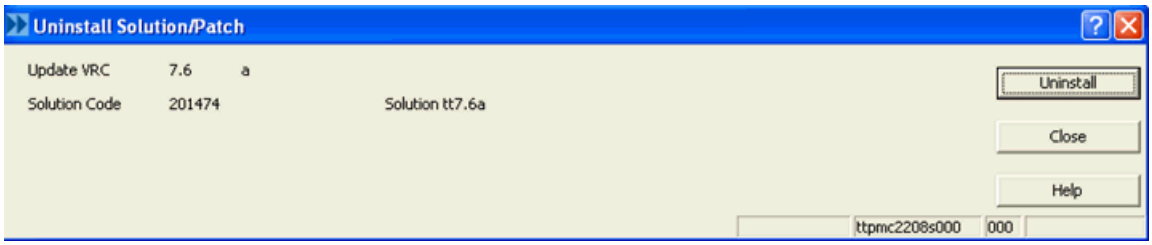
- *Process Solutions (ttpmc2101m000) (p. 4-14)* for a solution.
- *Process Patches (ttpmc2102m000) (p. 4-17)* for a patch.
- *Installation runs (ttpmc2503m000) (p. 4-35)* for an installation run.

The session works on solutions that are present in the registry of solutions and that have the status **To Uninstall**.

Upon uninstallation, all post-installation instructions are printed, along with the instructions for convert to runtime data dictionary and create runtime data dictionary, if the solutions contain components for which this is required.

Only user **root** or a user who is defined as a superuser in SSA ERP can run this program.

The following figure shows the forms of the session if you start the session from either the *Process Solutions (ttpmc2101m000) (p. 4-14)* session or the *Process Patches (ttpmc2102m000) (p. 4-17)* session.



The following figure shows the form of the session if you start the session from the *Installation runs (ttpmc2503m000) (p. 4-35)* session.

Fields	Description
Update VRC	update VRC
Solution Code	A unique identification of the solution or patch in a base VRC.
Installation Run	installation run.

Connect Solutions/Patches to VRC (ttpmc2201s000)

Use this session to connect solutions or patches that are already available on the system to an update VRC.

The *Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)* session reads a solution file and places the solution information in the registry of solutions. During the scan, the solutions are connected to one update VRC. You can use the current session to connect the scanned solutions to another update VRC, for example, the update VRC of a test environment. A solution or patch can have a connection with several update VRCs.

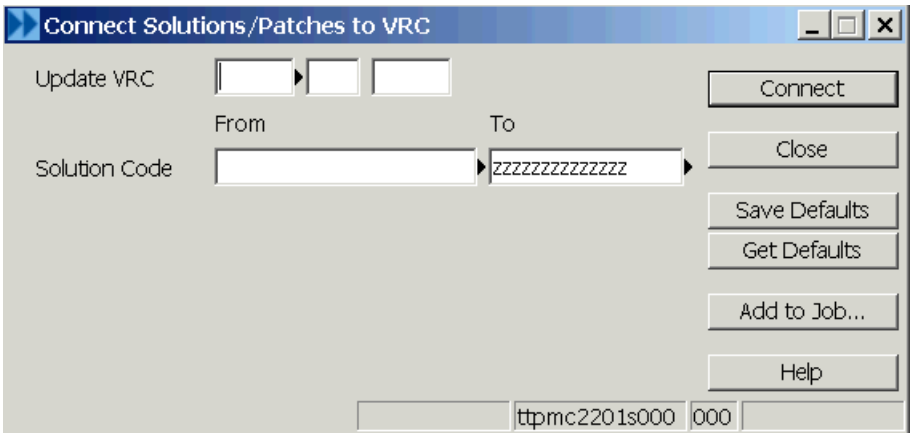
If a patch is connected to an update VRC, all the solutions in the patch are connected to that update VRC.

To disconnect a solution use the *Disconnect Solutions/Patches from VRC (ttpmc2202s000) (p. 4-30)* session.

You must start this session from the **Specific** menu of one of the following sessions:

- *Process Solutions (ttpmc2101m000) (p. 4-14)*
- *Process Patches (ttpmc2102m000) (p. 4-17)*

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Solution Code	A unique identification of the solution or patch in a base VRC.

Commands	Description
Connect	Connects the solutions or patches to the update VRC.

Disconnect Solutions/Patches from VRC (ttpmc2202s000)

Use this session to disconnect solutions or patches from an update VRC.

The *Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)* session reads a solution file and places the solution information in the registry of solutions. During the scan, the solutions are connected to one update VRC. Using the *Connect Solutions/Patches to VRC (ttpmc2201s000) (p. 4-29)* session, you can connect solutions and patches to other update VRCs, as well. A solution

or patch can have a connection with several update VRCs. You must use the current session to disconnect solutions or patches from an update VRC.

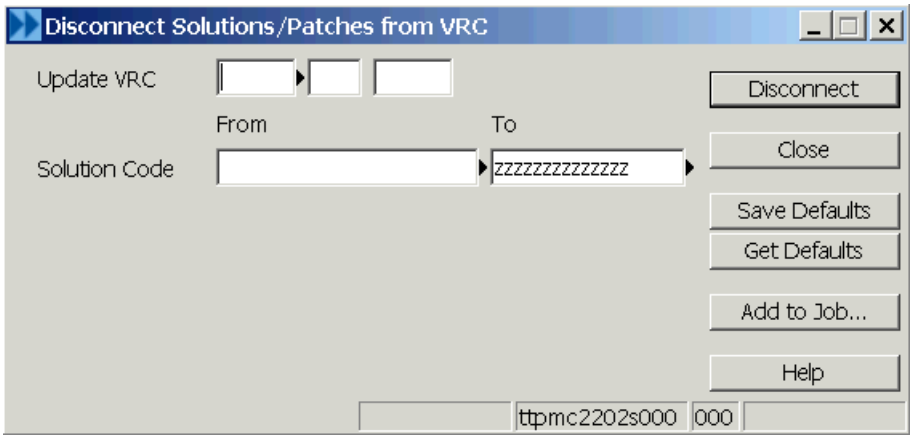
Solutions and patches must have the status **Available** before they can be disconnected.

If a patch is disconnected from an update VRC, all the solutions in the patch are disconnected from that update VRC.

You must start the current session from the **Specific** menu of one of the following sessions:

- *Process Solutions (ttpmc2101m000) (p. 4-14)*
- *Process Patches (ttpmc2102m000) (p. 4-17)*

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Solution Code	A unique identification of the solution or patch in a base VRC.

Commands	Description
Disconnect	Disconnects the solution(s) or patch(es) from the update VRC.

Check and Install Solutions (ttpmc2204s000)

Use this session to check the selected solution or a range of solutions whether you can install these solutions. If all conditions for all solutions in the selected range and their dependency chains comply, the solutions are installed. This session performs the combined functionality from the *Check Solution/Patch*

to Install (ttpmc2203s000) (p. 4-20) and *Install Solution/Patch (ttpmc2205s000) (p. 4-23)* sessions.

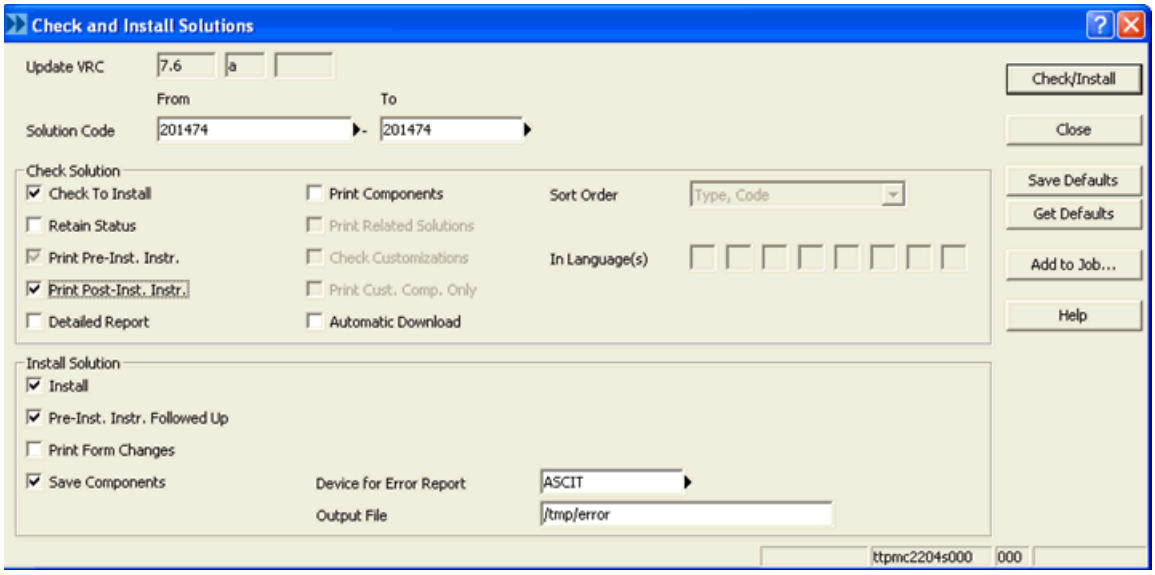
The session works on solutions that are present in the registry of solutions. The check is always carried out on multilevel. All related solutions, which include pre-requisites, co-requisites, and post-requisites, are checked.

If pre-installation instructions are present for one of the solutions to be installed, and the *Pre-Inst. Instr. Followed Up (p. 4-35)* check box is not selected, none of the solutions will be installed.

On installation all post-installation instructions are printed, along with the instructions for the convert to / create runtime data dictionary if the solutions contain components for which this is required.

This program can only be run as user **root** or a user defined as a superuser in SSA ERP.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Solution Code	A unique identification of the solution in a base VRC.
Check To Install	Use this option to check the individual solutions or patches in the given range. Only if the solutions are checked and received the status **To Install**, can you install the solutions.

Retain Status	Use this option if you want to check the solutions, but do not want to change the status of the solutions to **To Install**. This option is useful if you only want to see the consequences of a particular solution. The Check Solutions report will show the status that the solution would receive. However, if you look in the *Process Solutions (ttpmc2101m000) (p. 4-14)* or *Process Patches (ttpmc2102m000) (p. 4-17)* session, you will still see the former status. If you select this option, you cannot select the *Install (p. 4-35)* option. If you do not select this option, the printing of the **Pre-Installation Instructions** is mandatory.
Print Pre-Inst. Instr.	Use this option to print the pre-installation instructions in a separate section on the Check Solutions report. This option is mandatory if you did not choose the option *Retain Status (p. 4-35)* .
Print Post-Inst. Instr.	Use this option to print the post-installation instructions in a separate section on the Check Solutions report. Note that if you choose to install the checked solutions in the same run, for which you can use the *Install (p. 4-35)* option, the post-installation instructions are also printed on the Post-installation Actions report.
Detailed Report	Use this option to print a detailed report with all solutions that will be installed. The solution details are printed in a separate section of the Check Solutions report. For each solution, the pre-installation instructions, post-installation instructions, components by solution and dependencies are printed. This does not depend on the use of the corresponding options: ■ *Print Pre-Inst. Instr. (p. 4-35)* . ■ *Print Post-Inst. Instr. (p. 4-35)* . ■ *Print Components (p. 4-35)* .
Print Components	Use this option to print the components of all solutions that will be installed in a separate section of the Check Solutions report. To print only customized components, you can use the *Check Customizations (p. 4-35)* and *Print Cust. Comp. Only (p. 4-35)* options.
Sort Order of Components	In this field, you can specify how the components must be sorted in the solution details section and/or the components section of the Check Solutions report. **Type, Code** The components are sorted by component type and component code.

	Code, Type The components are sorted by component code and component type. Use this choice if you want to see the various components of a session, such as session, form, script/object, and reports, together.
Print Related Solutions	Use this option to print in the components section of the Check Solutions report the solution codes of the solutions, which contain the component.
Check Customizations	Use this option to check all components of the solutions to be installed to see whether or not the components are customized. This option is applicable if you have chosen the *Detailed Report (p. 4-35)* and/or the *Print Components (p. 4-35)* option. The components of a solution will be installed in the update VRC. If the same component also exists in a VRC on top of this update VRC, this component is reported for every package combination that contains the update VRC. Language-dependent components are checked and, if customized, reported for every language you specify in the *In Language(s) (p. 4-35)* field. If a component is present in a higher VRC than the update VRC, but a co-requisite solution is present that contains the same component for that higher VRC, the component is not reported. **Note** The presence of customizations will not block the solution for installation.
In Language(s)	In this field, you can specify the languages for which the customizations must be checked. The more languages you specify, the longer the session will run. SSA recommends that you specify only the languages for which customized components always exist.
Print Cust. Comp. Only	Use this option to print the customized components only. This applies to both the solutions details section and the components section of the Check Solutions report.
Automatic Download	If this check box is selected, missing solutions will be downloaded from the FTP server automatically. **Note** The FTP script must be previously generated by the *Generate ftp script (ttpmc2211s000) (p. 4-10)* session.
Install	Use this option to install all individual solutions or patches in the given range. These solutions must all have the status **To Install**. If you carry out

	the check and install in one run, the installation will not be performed for any solution if errors occurred during the check.
Pre-Inst. Instr. Followed Up	Use this option to inform the system that you took action on the pre-installation instructions. If you do not select this option, the solutions will not be installed if any solution has pre-installation instructions attached.
Print Form Changes	If this check box is selected, and the solutions you install contain new forms, the changes between the old forms and the new forms are printed in a report. This can be helpful to detect problems with the authorizations of the forms.
Save Components	Use this option to be able to uninstall the individual solution or patch again. PMC will create an uninstall dump for each solution that is installed.
Device for Error Report	Use this field to specify the device for the error report, which can be created during the creation of the uninstall dumps. This device must be a real printer or a device of type **Append to File**. **Note** In general, you can ignore this report . This report lists missing components in the current environment, for example, sources or objects that cannot be found. If these sources or objects are not present before the installation of a solution, they do not need to be restored during the uninstallation of a solution.
Output File	In this field, you must specify a file to which the error report must be written if your device is of type **Append to File**.

Installation runs (ttpmc2503m000)

Use this session to display all installation runs. From this session, you can use several options on the solutions that are installed with an installation run.

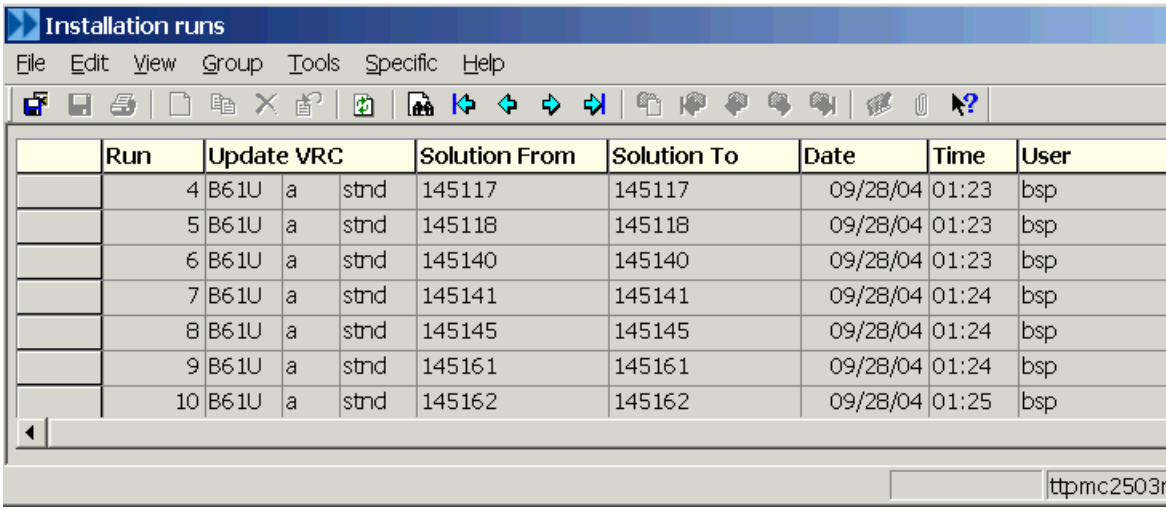
The session displays all installation runs (**Ctrl-Shift-a**) or only the installation runs, which are not empty (**Ctrl-Shift-e**). An empty installation run means that all solutions of this installation run have been uninstalled.

Use the **Specific** menu to run a specific option for a marked Installation run:

- *Solutions*: Displays the solutions that are installed with this installation run.
- *Check Installed Solutions (ttpmc2209s000) (p. 4-36)* : Prints the Check Solutions report again for all solutions that were installed with this installation run.

- *Check Solution/Patch to Uninstall (ttpmc2206s000) (p. 4-24)* : Checks all solutions of the installation run whether the solutions can be uninstalled. Note that if you installed a patch with this installation run, and this patch is not opened by providing the password, you cannot use this session to uninstall the patch. In this case use the *Process Patches (ttpmc2102m000) (p. 4-17)* session.
- *Uninstall Solution/Patch (ttpmc2208s000) (p. 4-28)* : Uninstalls all solutions of the installation run, provided that the solutions received the status **To Uninstall** during the execution of the *Check Solution/Patch to Uninstall (ttpmc2206s000) (p. 4-24)* session.

The following figure shows the form of the session:



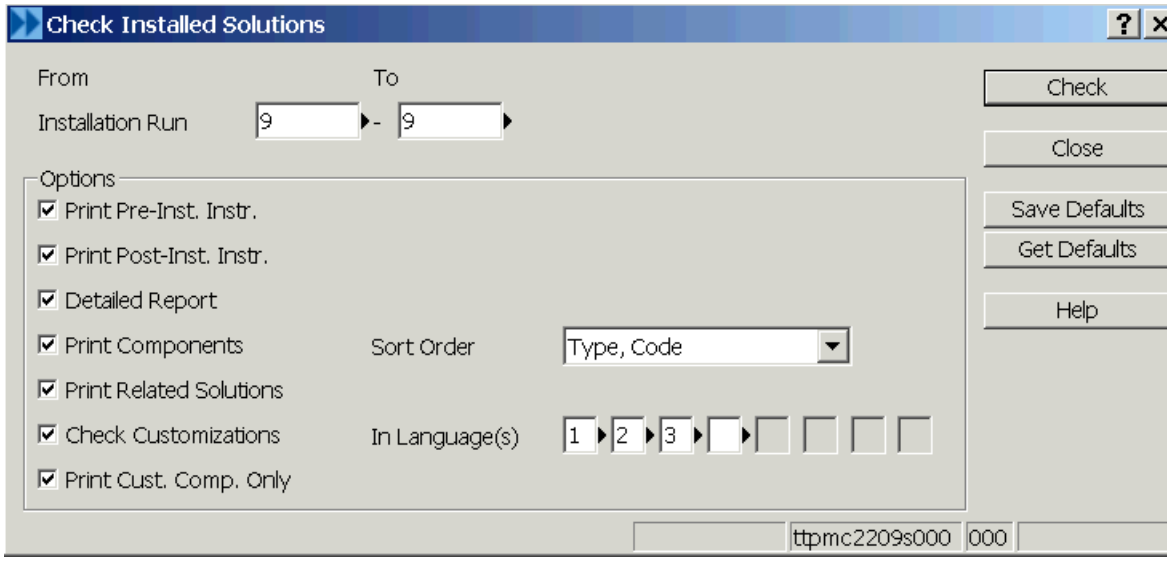
Check Installed Solutions (ttpmc2209s000)

Use this session to print the solutions that are installed in an Iinstallation run.

You can use this session to see the pre-installation instructions, post-installation instructions and customizations of solutions that are already installed.

You can only start this session from the *Installation runs (ttpmc2503m000) (p. 4-35)* session.

The following figure shows the form of the session:



Fields	Description
Print Pre-Inst. Instr.	Use this option to print the pre-installation instructions in a separate section on the Check Solutions report.
Print Post-Inst. Instr.	Use this option to print the post-installation instructions in a separate section on the Check Solutions report.
Detailed Report	Use this option to print a detailed report with all solutions that will be installed. The solution details are printed in a separate section of the Check Solutions report. For each solution the pre-installation instructions, post-installation instructions, components by solution and dependencies are printed. This does not depend on the use of the corresponding options: ■ *Print Pre-Inst. Instr. (p. 4-38)* . ■ *Print Post-Inst. Instr.*. ■ *Print Components (p. 4-38)* .
Print Components	Use this option to print the components of all solutions that will be installed in a separate section of the Check Solutions report. To print only customized components, you can use the *Check Customizations (p. 4-38)* and *Print Cust. Comp. Only (p. 4-38)* options.

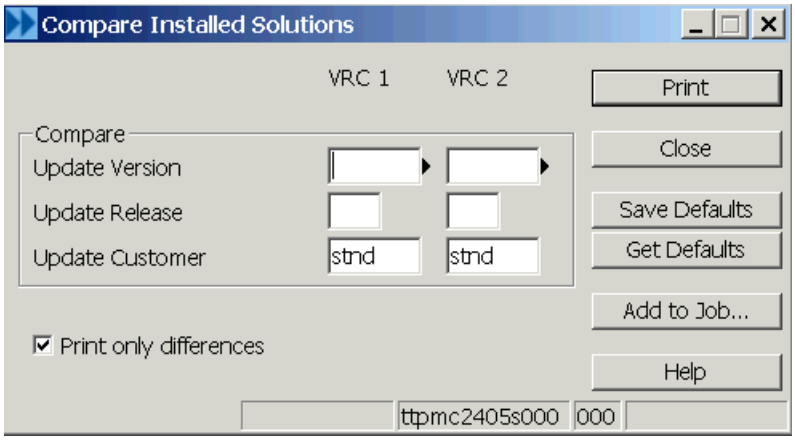
Sort Order of Components	In this field, you can specify how the components must be sorted in the solution details section and/or the components section of the Check Solutions report. **Type, Code** The components are sorted by component type and component code. **Code, Type** The components are sorted by component code and component type. Use this choice if you want to see the various components of a session, such as session, form, script/object, and reports, together.
Print Related Solutions	Use this option to print in the components section of the Check Solutions report the solution codes of the solutions, which contain the component.
Check Customizations	Use this option to check all components of the solutions to be installed, whether or not the components are customized. This option is applicable if you have chosen the *Detailed Report (p. 4-38)* and/or the *Print Components (p. 4-38)* option. The components of a solution will be installed in the update VRC. If the same component also exists in a VRC on top of this update VRC, this component is reported for every package combination that contains the update VRC. Language-dependent components are checked and, if customized, reported for every language you specify in the *In Language(s) (p. 4-38)* field. If a component is present in a higher VRC than the update VRC, but a co-requisite solution is present that contains the same component for that higher VRC, the component is not reported. **Note** The presence of customizations will not block the solution for installation.
In Language(s)	In this field, you can specify the languages for which the customizations must be checked. The more languages you specify, the longer the session will run. SSA recommends that you specify only the languages for which customized components always exist.
Print Cust. Comp. Only	Use this option to print the customized components only. This applies to both the solutions details section and the components section of the Check Solutions report.

Compare Installed Solutions (ttpmc2405s000)

Use this session to list the differences in status between solutions of two update VRCs.

You can only compare update VRCs that have the same base VRC or consecutive base VRCs, for example, B61_a, B61_a1, B61_a2, and so on.

The following figure shows the form of the session:



Fields	Description
Compare Update Version-Release-Customer	update VRC
Print only differences	If this check box is selected, only the difference between the solutions are printed. Solutions that have no differences are omitted.

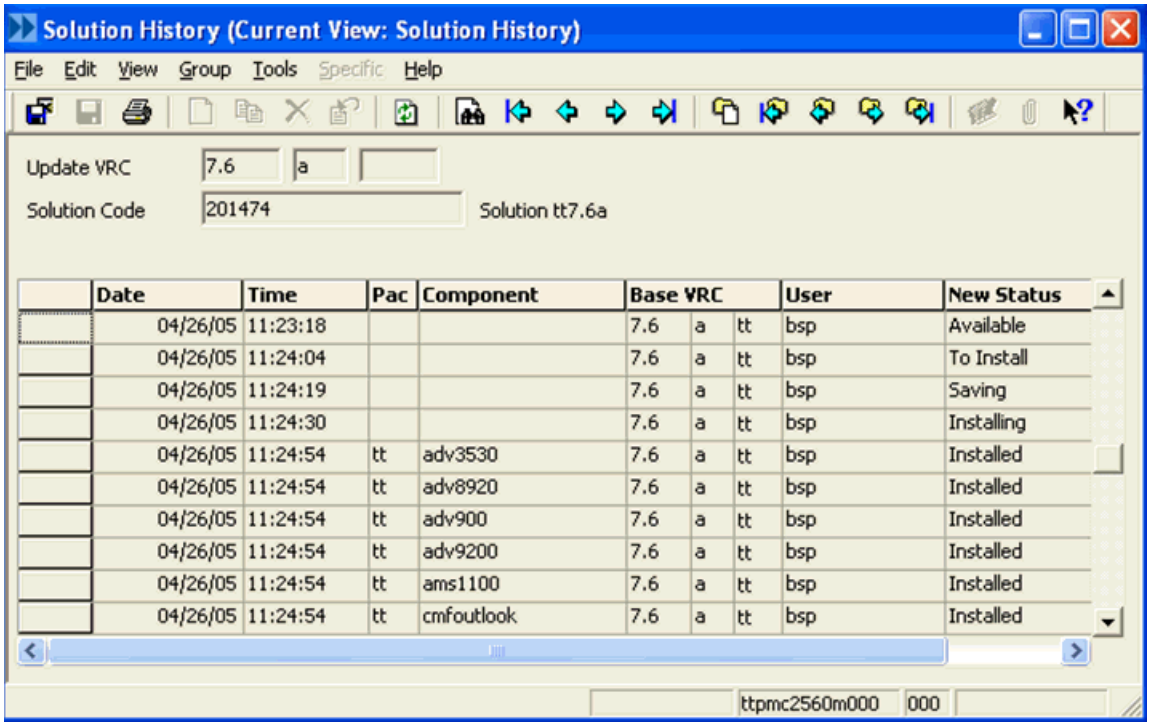
Commands	Description
Print	Prints the report.

Solution History (ttpmc2560m000)

Use this session to display the history of the changes of a solution or patch in an update VRC.

The session also displays the changes for solutions that were delivered as part of a patch.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Solution Code	A unique identification of the solution or patch in a base VRC.
Date	The date at which the solution status or patch status was changed.
Time	The time at which the solution status or patch status was changed.
Pack	The package of the components. **Note** This field is only filled when the solution is installed or uninstalled.
Component	A unique identification of the component in the base VRC. **Note** This field is only filled when the solution is installed or uninstalled.

User	The login name of the user who changed the solution status or patch status.
New Status	status

Commands	Description
Print Solution/Patch History	Starts the Print Solution/Patch History (ttpmc2460m000) session.

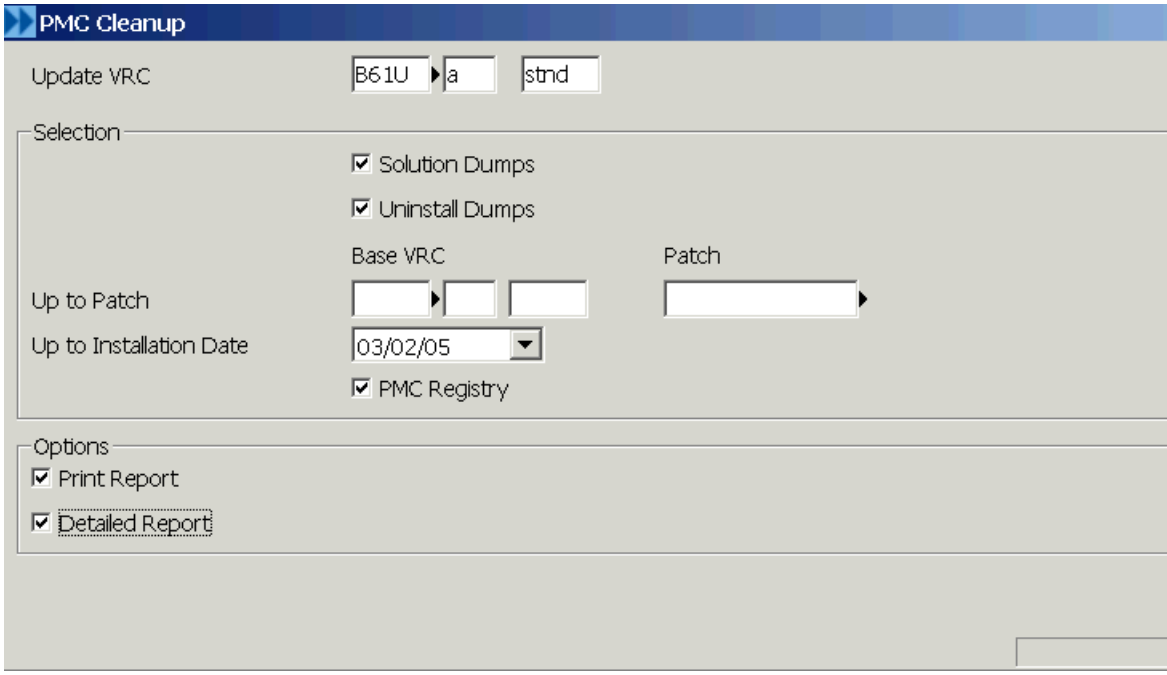
PMC Cleanup (ttpmc2220m000)

Use this session to clean up PMC, which helps save disk space.

This session can delete three types of PMC data:

- **Solution dumps**
  Stored in the system when solutions are scanned. The dumps are used for the installation. Refer to the Help on the *Solution Dumps (p. 4-44)* field for more information.
- **Uninstall dumps**
  Created during the installation of solutions if you select the option to save the components. The uninstall dumps are used to uninstall the solutions. Refer to the Help on the *Uninstall Dumps (p. 4-44)* field for more information.
- **PMC Registry**
  Contains data about the solutions. Use this option to remove the data for a complete update VRC. Refer to the Help on the *PMC Registry (p. 4-44)* field for more information.

The following figure shows the form of the session:



Fields	Description
Update VRC	update VRC
Solution Dumps	If this check box is selected, all solution dumps are deleted from the directory that is specified in the *Path for Individual Solution Dumps (p. 4-4)* field in the *Parameters (ttpmc0100s000) (p. 4-1)* session. The solution dumps are deleted if the following criteria are met: ■ The solution is installed in all update VRCs to which the solution is connected. ■ The installation date in all update VRCs is before or on the date specified in the *Up to Installation Date (p. 4-44)* field. ■ If you specified a patch in the *Up to Patch (p. 4-44)* field, the solution must belong to this patch or a previous patch. **Note** If a solution dump is deleted, you can no longer install that solution in another update VRC, unless you scan the solution again.
Uninstall Dumps	If this check box is selected, all uninstall dumps are deleted from the directory that is specified in the *Path for Uninstall Dumps (p. 4-4)* field in the *Parameters (ttpmc0100s000) (p. 4-1)* session.

	The uninstall dumps are deleted if the following criteria are met: ■ The installation date in all update VRCs is before or on the date specified in the *Up to Installation Date (p. 4-44)* field. ■ If you specified a patch in the *Up to Patch (p. 4-44)* field, the solution must belong to this patch or a previous patch. **Note** If an uninstall dump of a solution is deleted, you can no longer uninstall that solution.
Up to Patch	Indicates until which patch you must delete solution dumps and uninstall dumps. The patch that contains the solutions must be previous or equal to the patch specified in this field. **Note** ■ Solutions do not have to have been installed as part of a patch. The solutions might have been installed previous to the installation of the patch. The issue at stake is only that the content of installed patches is used as selection criterion to select the dumps you want to delete. ■ Solutions that are installed, but that are not included in an installed patch, cannot be selected this way. ■ If you leave this field blank, the selection of the dumps in the specified base VRC will not be based on patches, but only on the installation date of the solutions. Refer to the Help on the *Up to Installation Date* field for more information.
Up to Installation Date	Indicates until which installation date you must delete solution dumps and uninstall dumps. The installation date of the solutions must be previous or equal to the date specified in this field. **Note** ■ To clean up solution dumps or uninstallation dumps, you must select a date in this field. ■ This field is not relevant if you select the *PMC Registry* check box.
PMC Registry	If this check box is selected, all information in the the PMC registry for the update VRC specified in this session is deleted. This option is only intended for update VRCs that you want to remove from your system. You cannot use this option for update VRCs that are still in

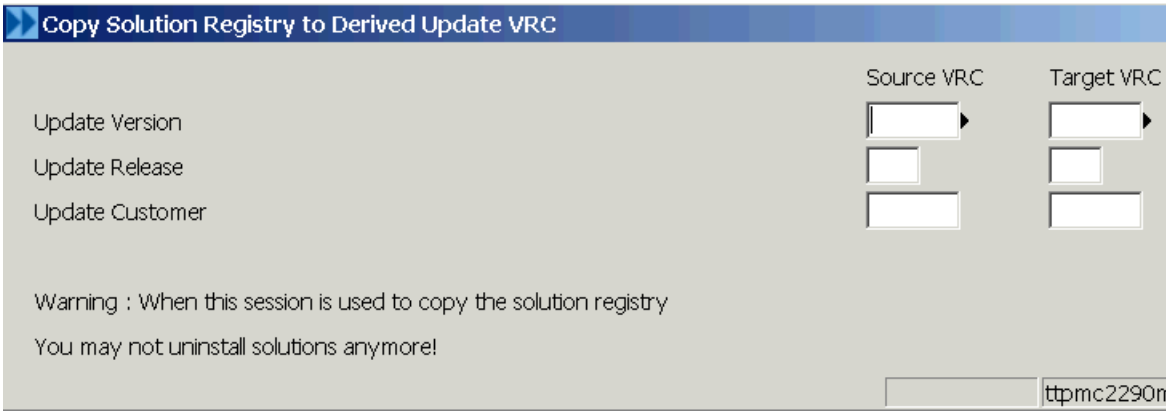
	use, because PMC requires information about previous solutions when it performs checks to install new solutions. The registry can only be cleaned up if the update VRC is empty, which means that all components and all uninstall dumps are deleted from this VRC. To remove a complete update VRC, take the following steps: ■ Use the current session, to delete the uninstall dumps. ■ Delete all components, for all packages from the update VRC by means of the Delete Software Components by Package VRC (ttadv6250m000) session. ■ Delete the PMC Registry by means of the current session. ■ Delete the update VRC structure by means of the *Delete Update VRC Structure (ttpmc2241s000) (p. 4-8)* session.
Print Report	If this check box is selected, a concise report of the results of the clean-up is printed.
Detailed Report	If this check box is selected, a detailed report of the results of the clean-up is printed.

Commands	Description
Cleanup	Deletes the selected solution dumps and/or uninstall dumps, or cleans up the PMC registry.

Copy Solution Registry to Derived Update VRC (ttpmc2290m000)

Use this session to copy the solution registry from one update VRC, which is the source VRC, to another update VRC, the target VRC, that is directly derived from that source VRC.

The following figure shows the form of the session:

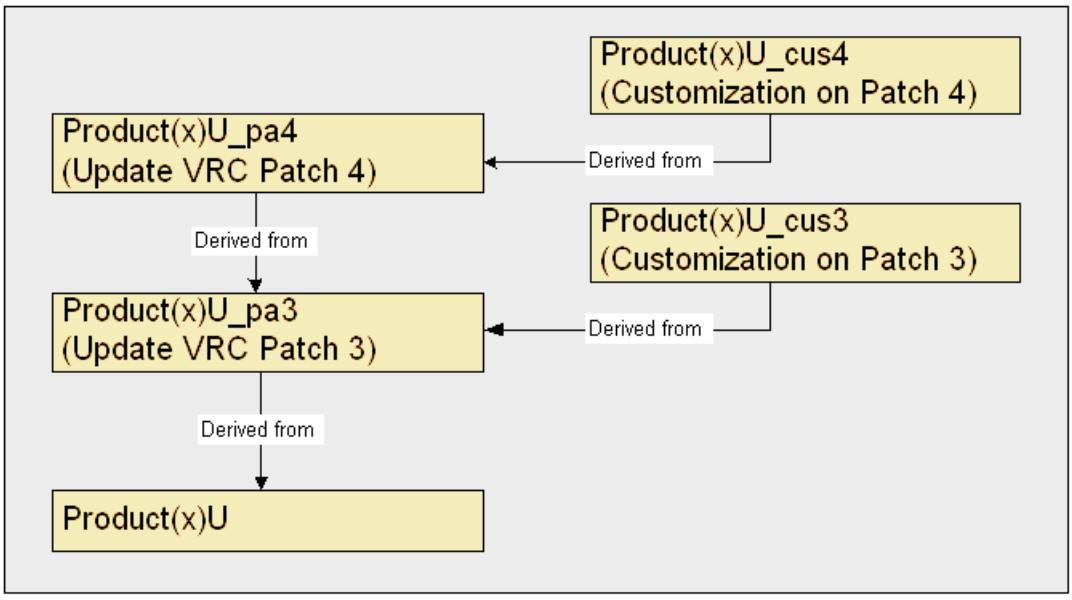


The session is specifically written for SSA ERP customization partners who want to install the subsequent PMC patches for a particular release in separate update VRCs that are directly derived from each other.

SSA does not recommend that you use this session to copy the registry of Service Packs. The reason is because SSA also does not recommend that you install subsequent Service Packs in derived VRCs.

You must enter the source VRC and the target VRC. Both VRCs must exist in PMC and must have the same base VRC. The VRC entered as target VRC must be derived from the source VRC in the Package VRCs (ttadv1511m000) session. The current session copies the Solution Registry (table: ttpmc201) of the installed solutions of the source VRC to the target VRC.

The following is an example of a VRC structure at a SSA ERP customization partner:



The VRCs Product(x)U_pa3 and Product(x)U_pa4 are defined as update VRCs. The solutions of Patch 3 are installed in Product(x)U_pa3. Customizations in Product(x)U_cus3 are upgraded with the fixes of Patch 3.

Now, when Patch 4 is released, you must install this patch in a separate VRC, because the customer who owns customization Product(x)U_cus3 cannot upgrade to Patch 4, whereas another customer, who owns customization Product(x)U_cus4, must upgrade to Patch 4.

Before you can install the solutions of Patch 4 in the new update VRC Product(x)U_pa4, the registry of Patch 3 VRC Product(x)U_pa3 must be copied to this new update VRC Product(x)U_pa4, because the dependencies between solutions of Patch 4 and solutions of Patch 3 are only checked in the update VRC in which the solutions are installed.

Important!

If you use this session to copy the solution registry, you can no longer uninstall the solutions in the source VRC.

Fields	Description
Source VRC	update VRC
Target VRC	update VRC

Commands	Description
Continue	Copies the solution registry from the source VRC to the target VRC.

Appendix A
Recipient session summary

A

PMC Recipient Sessions

Title	Description
Parameters (ttpmc0100s000) (p. 4-1)	Maintain the parameters for the PMC module.
Process Solutions (ttpmc2101m000) (p. 4-14)	Display the solutions that are present in the registry of solutions and connected to the specified update VRC. Various options are present to process the solutions.
Process Patches (ttpmc2102m000) (p. 4-17)	Display the patches that are present in the registry of solutions and connected to the specified update VRC. Various options are present to process the patches.
Open Patch (ttpmc2105s000)	Enter a password to open a patch. If you open the patch, you can handle the solutions contained in the patch individually.
Update VRC's (ttpmc2140m000) (p. 4-7)	Maintain the update VRCs. This session registers the update VRCs to which solutions can be connected.
VRC Combinations (ttpmc2150m000) (p. 4-9)	Maintain the VRC combinations.

Scan Solution/Patch File (ttpmc2200s000) (p. 4-13)	Scan an export dump that contains one or more solutions that is placed on the recipient system. You can also use this session to scan collections and patches.
Connect Solutions/Patches to VRC (ttpmc2201s000) (p. 4-29)	Connect solutions or patches that are already available on the system to an update VRC.
Disconnect Solutions/Patches from VRC (ttpmc2202s000) (p. 4-30)	Disconnect solutions or patches from an update VRC.
Check Solution/Patch to Install (ttpmc2203s000) (p. 4-20)	Check if the solutions can be installed. The session also signals the problems in regard to customizations.
Check and Install Solutions (ttpmc2204s000) (p. 4-31)	Check the selected solution or a range of solutions to see whether you can install the solution or range. If all conditions for all solutions in the selected range and their dependency chains comply, the solutions are installed. This session performs the combined functionality from the *Check Solution/Patch to Install (ttpmc2203s000) (p. 4-20)* and *Install Solution/Patch (ttpmc2205s000) (p. 4-23)* sessions.
Install Solution/Patch (ttpmc2205s000) (p. 4-23)	Install the solution. This process is performed on multilevel. In addition the previous version of the components to install is saved to enable you to uninstall the solution.
Check Solution/Patch to Uninstall (ttpmc2206s000) (p. 4-24)	Check the solutions to see whether you can uninstall the solutions. You can also use this session to check an installation run to be uninstalled.
Uninstall Solution/Patch (ttpmc2208s000) (p. 4-28)	Uninstall the solution. This process is performed on multilevel. This session is also used to uninstall an installation run.
Check Installed Solutions (ttpmc2209s000) (p. 4-36)	Print the solutions that are installed in an installation run.
Download, Scan and Connect Solution (Multi-Level) (ttpmc2210s000) (p. 4-11)	Download, scan, and connect solutions, including the related solutions. You can also use this session for solutions delivered in a collection.
Generate ftp script (ttpmc2211s000) (p. 4-10)	Specify some basic data required to download updates from the SSA ERP FTP-server.

Login for FTP Server (ttpmc2212s000)	Log on at the SSA ERP FTP server to download solutions, collections, or patches.
PMC Cleanup (ttpmc2220m000) (p. 4-41)	Clean up PMC. This process helps save disk space.
Generate Update VRC structure (ttpmc2240s000) (p. 4-4)	Set up an environment in which PMC works well.
Delete Update VRC Structure (ttpmc2241s000) (p. 4-8)	Delete an update VRC structure.
Copy Solution Registry to Derived Update VRC (ttpmc2290m000) (p. 4-44)	Copy the solution registry from one update VRC, the source VRC, to another update VRC, the target VRC, that is directly derived from that source VRC.
Print Solution/Patch by Update VRC (ttpmc2401m000)	Print detailed information of solutions and patches in update VRCs.
Compare Installed Solutions (ttpmc2405s000) (p. 4-39)	List the differences in status between solutions in two update VRCs.
Print Dependencies by Update VRC (Multi-level) (ttpmc2440m000)	Print the dependencies between solutions in an update VRC.
Print VRC Combinations (ttpmc2450m000)	Print all update VRCs for each of the VRC combinations in the specified range.
Print Solution/Patch History (ttpmc2460m000)	Print the history of the changes of a solution or patch.
Installation runs (ttpmc2503m000) (p. 4-35)	Display all installation runs. From this session, you can use several options on the solutions that are installed with an installation run.
Solutions by Installation Run (ttpmc2504m000)	Display solutions by installation run.
History Base VRCs by Update VRC (ttpmc2541m000)	Display history base VRCs by update VRC.

History Solutions by Update VRC (ttpmc2542m000)	Maintain history solutions by update VRC.
Solution History (ttpmc2560m000) (p. 4-39)	Display the history of the changes of a solution or patch in an update VRC.

Appendix B
Glossary

B

base VRC

A means in PMC to identify products in a unique way. Updates at the distributor side are provided with the base VRC identifier. A base VRC can contain the code of the physical VRC in which the related master product is installed, for example, B61_a, but can also be a code not related to a physical VRC, for example, 7.6_a_tt. At the recipient side, every update VRC is linked to a base VRC identifier. The installation process checks if the base VRC identifier of the update matches with the base VRC identifier of the update VRC. If not, you cannot install the update in that update VRC.

base VRC combination

A base VRC Combination is defined at the PMC distributor side and consists of a set of related base VRCs. A base VRC combination controls the creation of co-requisites between base VRCs. You can only define co-requisites between base VRCs that are part of the same base VRC combination. Base VRC combinations prevent the unwanted creation of co-requisites between base VRCs.

collection

In PMC, a collection is a group of individual solutions. At the PMC distributor side, you can perform grouping in various ways, for example, manual grouping based on a functional topic or grouping based on solutions created in a particular period etc. You cannot define dependencies between collections. At the recipient side, the entity collection is not available. When a collection is scanned, the individual solutions are added to the PMC registry and can be processed individually.

co-requisite

In general, co-requisites are defined between solutions of a standard product and derived products. Co-requisites guarantee that related products are updated simultaneously under the condition that the update VRCs of the related products are linked to the same VRC combination. The order of installation is not relevant. The solutions can have the same base VRC, or different base VRCs.

customer

A code that identifies a customized software package. For example, B61O_a_cus1, where 'B61O' represents the version, 'a' represents the release, and 'cus1' represents the customer extension of the customized software.

customization

A derived product, meant to fulfill the requirements of a specific customer or group of customers.

dependency

In PMC, the relation between solutions. Dependencies are defined at the PMC distributor side and are part of the meta data of a PMC solution and guarantee that PMC solutions are installed in the correct configuration and sequence at the PMC recipient side.

The following values indicate the dependency type between solutions. You can only install solutions that are dependent on other solutions if the other solutions are already present, or are also installed.

The same dependency types exist between patches. However, to keep the descriptions readable, only solutions are mentioned, but patches are meant as well. One exception applies: the post-requisite type is not applicable to patches.

Three dependency types are available:

- Pre-requisites
- Co-requisites
- Post-requisites

derived product

A product that is derived from a parent master product. The parent product can, for example, be a main ERP version such as SSA ERP LN 6.1. In general, the derived product contains a subset of components from the parent product that are changed and possibly a number of new software components.

There are three categories of derived products:

- Localizations
- Extensions
- Customizations

details session

A dialog box that shows all the details (fields) of the line (record) selected in the associated overview session. Use a details session to view, enter, or change the data of one record.

A details session can contain a number of tabs to group related fields.

development VRC

In PMC a physical VRC, derived from the export VRC, in which checked-out software components are temporarily stored during a change process.

export VRC

The physical VRC from which components that belong to a PMC solution must be exported at the PMC distributor side. Each base VRC has an export VRC linked, so components for different products are exported from different physical VRCs.

extension

A derived product meant to fulfill requirements of a particular line of business.

installation run

In PMC, a group of solutions that were installed together. This can be a range of solutions, a solution with pre-requisites, or a combination of both.

localization

A derived product meant to fulfill country specific requirements.

obsolete solution

Obsolete solutions are an administrative aid to manage the synchronization of updates at the PMC recipient side when you install a Service Pack. An obsolete solution does not contain software components.

package

A set of related modules that implements a complete part of the functionality, for example, Enterprise Planning, Financials, or Warehouse Management. Packages are designed to function as independent as possible, to enable a customer to implement only particular packages.

A package code consists of two characters. For example, tt is the code of the SSA ERP Tools package.

Each package has a unique version structure, the VRC structure.

package combination

A combination of several different packages with specific VRCs. A package combination represents a complete usable version of SSA ERP.

In the User Data (ttaad2500m000) session, each user is linked to a package combination, that determines which version of the software the user can use. In the Companies (ttaad1100m000) session, each company is linked to a package combination, to indicate which version of SSA ERP is appropriate to handle the data in that company.

package VRC

A version of a package, for example, **tc B61O a cus1**. In general, one version of a software component, such as a session, a table, or a form, is stored in one particular package VRC.

A developer can usually modify software components only in a particular package VRC.

The code of a package VRC consists of:

- Package code, for example, 'tc'
- A version (VRC) code, for example 'B61O a cus1', built up of:
  - Version
  - Release
  - Customer

package VRC

See: *version - release - customer (p. B-11)*

patch

In PMC, a patch is a collection of solutions. In general a patch contains solutions created in a larger time period. The patch entity is both known at the PMC distributor and PMC recipient side. Patches are an indivisible set of solutions. You cannot install or uninstall individual solutions that belong to a patch at the PMC recipient. You can only install or uninstall patches as a whole. Yo can define dependencies between patches. Patches leave the base VRC that is linked to the update VRC at the PMC recipient unchanged. The existing PMC registry will remain and will be extended with data of the newly installed patch. Patches only permit the most recent version of software components to be maintained. Patches in general mainly contain corrective solutions.

Note

In PMC versions earlier than SSA ERP LN 6.1, the synonym Service Packs was often used for patches.

PMC

See: *product maintenance and control (p. B-7)*

PMC distributor

The functional part of PMC that manages the creation of updates. PMC Distributor is especially used by software vendors who create updates.

PMC recipient

The functional part of PMC that manages the installation of updates. Customers, who install updates in particular use PMC recipient.

PMC version

The PMC version is linked to every update and is intended to quarantee that various formats of PMC solution dumps are handled by the right version of the PMC software.

post-requisite

Post-requisites are mainly meant to prevent the installation of bad solutions. In general, a post-requisite is a link from an earlier, bad solution to a more recent, correct solution.

pre-requisite

Pre-requisites mainly steer the sequence in which solutions are installed. In general a pre-requisite is the link from a more recent solution to a predecessing solution. Pre-requisites are the most common type of dependencies. A pre-requisite dependency exists between two solutions if one solution must have been installed before the other solution is installed. In that case, the first solution is a pre-requisite for the other solution. Typically, pre-requisite dependencies exist between a solution and a previous solution, if these solutions have one or more components in common. Pre-requisite dependencies can only be created to solutions in the same base VRC.

product maintenance and control

Product maintenance and control (PMC) is a tool that helps a customer manage the updates of the SSA ERP LN system.

With the PMC tool, you can check all patches against the customer's SSA ERP LN system to verify their completeness, check any potential interference with the customization, and detect dependencies.

These capabilities ensure the complete and accurate installation of each software patch and Service Pack. In addition, using the PMC tool enhances the quality of the support being available to customers.

PMC consists of a PMC distributor part and a PMC recipient part.

Acronym: PMC

program script

A sequence of instructions that is used to program a number of actions that must take place in addition to the standard program. Two different program scripts are available, namely 3GL scripts and 4GL scripts.

Synonym: UI script

PVRC

See: *version - release - customer (p. B-11)*

release

An update in a version. For example, 'B61 a', where 'B61' represents the version code, and the 'a' represents the release code. Each update results in a new release with a new release code.

SCM

See: *software configuration management (p. B-8)*

Service Pack

In PMC, a Service Pack is a collection of solutions. In general, a Service Pack contains solutions created in a larger time period. In PMC the term 'patch' is also applied for Service Packs. The patch entity is both known at the PMC distributor and PMC recipient side. A property in the patch entiry makes the difference between patches and Service Packs. Service Packs are an indivisible set of solutions. You can install or uninstall solutions that belong to a Service Pack at the PMC recipient. You can only install or uninstall Service Packs as a whole. You can define dependencies between Service Packs. Service Packs are intended to enable you to maintain multiple base VRCs in parallel. Service Packs change the base VRC that is linked to the update VRC at the PMC recipient. The existing PMC registry for the update VRC will be moved to history and a new registry will be started for the update VRC. This type of patch in general contains a significant amount of functional changes.

Note

Service Packs as described in the preceding definition do not exist in PMC versions earlier than SSA ERP LN 6.1.

Acronym: SP

software configuration management

With software configuration management, a developer can modify and test their own revision of a software component. Using a check-out and check-in functionality, a software component is locked for others developers. This method guarantees that no more than one developer can modify the same software component at the same time.

Acronym: SCM

solution

In PMC, the smallest, indivisible type of update. A solution is identified both at the distributor and recipient side by a unique solution code. The term individual solution is also frequently used and has the same meaning.

Note

In the PMC software the term solution is often used as an alternative for the term update. A solution can then be an individual solution, which is the smallest, indivisible type of an update, or a patch.

solution status recipient

The following statuses indicate the progress of the installation or uninstallation of a solution or patch.

These statuses are only used at the recipient side, and must not be confused with the solution status distributor at the distributor side.

- **Available**
  The solution or patch is scanned and available on the system.
- **To Install**
  The solution or patch is checked and is ready to be installed.
- **Saving**
  A backup of the components is being saved.

  This status is not applicable for patches.
- **Installing**
  During the installing process the solution or patch has this status.
- **Installed**
  The solution or patch is installed.
- **To Uninstall**
  The solution or patch is checked to be uninstalled.
- **Uninstalling**
  During the uninstalling process, the solution or patch has this status.

SP

See: *Service Pack (p. B-8)*

superseded solution

A superseded solution is a solution for which can be said that all software components are also contained in another so-called superseding solution.

superseding solution

A superseding solution is a solution that contains at least the same software components as contained in one or more superseded solutions and can contain additional software components that are not part of any superseded solution.

A solution supersedes another solution if the following conditions are met:

- The superseding solution contains at least all the components of the other solution.
- The superseding solution contains newer versions of these components.
- The superseded solution is not yet installed. If the superseded solution is already installed, speaking of a superseding solution is illogical.

UI script

See: *program script (p. B-7)*

update

In PMC, an update is a set of changed software components, including PMC metadata, which is required to install the update in a safe and correct way. An update can contain corrective changes or functional enhancements.

Updates can be delivered in four different configurations:

- Solutions
- Collections
- Patches
- Service Packs

update VRC

A physical VRC at the PMC recipient side in which updates are installed. Every update VRC has a base VRC linked.

version

An upgrade of a package, for example, B61. Each change in the functionality of a package results in a new version. A version can contain several releases.

version - release - customer

The version - release - customer (VRC) code is an identification of a stage in the development of the SSA ERP software. An example of a VRC is *B61_a_ams*.

A VRC code consists of:

- **Version**
  A stage in the development in which a major part of the software is modified.
- **Release**
  A stage in the development in which a minor part of the software is modified.
- **Customer**
  An extension, localization, or customization of the software for a single customer or a small group of customers.

A VRC can be derived from a preceding VRC. Every software component that is contained in the preceding VRC and not explicitly modified or set to expired in the current VRC will also be available in the current VRC.

Acronym:	VRC
Acronym:	PVRC
Synonym:	package VRC

VRC

See: *version - release - customer (p. B-11)*

VRC combination

A VRC Combination is defined at the PMC recipient side and consists of a set of related update VRCs. The VRC Combination will guarantee that, if required, the related update VRCs are updated simultaneously at the PMC recipient side. In this way, you can avoid compatibility problems between related update VRCs. For example, if you use the standard application and you also have an extension installed, you will have two update VRCs defined. If a co-requisite dependency is defined between a standard solution and a solution for the extension, PMC installs both solutions in one run if you linked the update VRCs for both standard and localization in one VRC combination.

Index