Upgrade and Update Guide
SAP Supplier Relationship Management 7.0 Including Enhancement Package 3 ABAP

For:
■ ABAP

Target Audience
■ System Administrators
■ Technology Consultants

PUBLIC
Document version: 1.0 – 2013-08-13
Document History

CAUTION
Before you start the implementation, make sure you have the latest version of this document. You can find the latest version at the following location: http://service.sap.com/instguides.

The following table provides an overview of the most important document changes.

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2013-08-13</td>
<td>First version</td>
</tr>
</tbody>
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1 Getting Started

This section of the guide contains important information that you need to read before starting your update or upgrade process.

1.1 Essential Information: Process and Documentation Overview

You are currently reading the *Upgrade and Update Guide for SAP Supplier Relationship Management 7.0 Enhancement Package 3 ABAP*. This guide only contains information specific to SAP SRM, but you need additional information to enable you to perform your upgrade correctly.

**NOTE**
Specifically, you need to use the following guide in parallel to the *Upgrade and Update Guide for SAP Supplier Relationship Management 7.0 Enhancement Package 3 ABAP*:

*Update Guide - Update of SAP Systems Using the Software Update Manager <latest version>*

You have to use Software Update Manager (SUM) guide in parallel with this application-specific guide, because the two types of guide complement each other — the SUM guide contains the overall process, tool, operating system- and database-specific information while this guide contains the application-specific information.

You find the SUM guide on the SAP Service Marketplace at the same location as the SAP SRM 7.03 Master Guide, see path below.

The *SAP SRM 7.13 Master Guide* contains a section *Main Implementation Processes and Related Documentation* with the following subsections with vital information:

- **Planning for Installation, Update, and Upgrade Processes**
  Contains a list of topics (including documentation references) you need to consider when you are planning your implementation project.

- **Implementation of the Installation Process**
  Provides a step-by-step overview of the installation process (new installation of an SAP system including an enhancement package), with reference to the required tools and associated documentation.

- **Implementation of the Update Process**
  Provides a step-by-step overview of the update process (installation of an enhancement package on an existing SAP system), with reference to the required tools and associated documentation.
1.2 Important SAP Notes

- Implementation of the Upgrade Process
  Provides a step-by-step overview of the upgrade process (upgrade to an SAP system including an enhancement package), with reference to the required tools and associated documentation.

  **NOTE**
  Make sure that you collect all the information provided in this overview before starting your installation, upgrade or update project.


### 1.2 Important SAP Notes

<table>
<thead>
<tr>
<th>Note Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1818517</td>
<td>EHP3 for SAP SRM 7.03 Release &amp; Information Note</td>
</tr>
<tr>
<td>181255</td>
<td>Overview: Notes about R/3 Add-Ons PI and PI-A</td>
</tr>
<tr>
<td>844817</td>
<td>Technical information for the VMC based AP 7.00 engines</td>
</tr>
<tr>
<td>844816</td>
<td>Information for Upgrade from IPC 4.0 to SAP AP 7.00</td>
</tr>
<tr>
<td>669669</td>
<td>Updating the SAP Component Repository in the SLD</td>
</tr>
<tr>
<td>720819</td>
<td>Middleware consumer entry for SRM in OLTP system</td>
</tr>
<tr>
<td>569658</td>
<td>Transfer of filters defined by SAP</td>
</tr>
<tr>
<td>707701</td>
<td>SRM-SUS: Upgrade from SUS 1.0 or SUS 2.0</td>
</tr>
<tr>
<td>1224389</td>
<td>SRM70: enhance UWL configuration for new WF Templates</td>
</tr>
<tr>
<td>798295</td>
<td>BADI workflow: SRM 3.0 upgrade to 4.0 approver list -&gt; main</td>
</tr>
<tr>
<td>724672</td>
<td>SRM40-SUS: Business partner migration during upgrade</td>
</tr>
<tr>
<td>831339</td>
<td>Assignment of separate customizing client not supported</td>
</tr>
<tr>
<td>854170</td>
<td>Activating the component &quot;VM Container&quot;</td>
</tr>
<tr>
<td>1267549</td>
<td>SRM7.0: Creation of new transaction types for RfX and Quote</td>
</tr>
</tbody>
</table>

### 1.3 Glossary

This section explains the most common terms and concepts used in the installation, update and upgrade guides.

<table>
<thead>
<tr>
<th>Term / Concept</th>
<th>Definition / Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update</td>
<td>Installation of an enhancement package on an existing SAP system. Update may also refer to other software updates, such as support package deployments. In a profile (see glossary entry below), update is referred to as Enhancement Package Installation.</td>
</tr>
<tr>
<td>Upgrade</td>
<td>Upgrade to an SAP system including an enhancement package.</td>
</tr>
<tr>
<td>Installation</td>
<td>New installation of an SAP system including an enhancement package</td>
</tr>
</tbody>
</table>
### Glossary

<table>
<thead>
<tr>
<th>Term / Concept</th>
<th>Definition / Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profiling</td>
<td>The guide contains some sections or paragraphs that are profiled, that is, they are used in various contexts (upgrade, update, installation, ABAP and Java). For example, a section may be used for both upgrade and update topics. A profile is indicated by brackets above and below the profiled section and the profiling context it is valid for.</td>
</tr>
<tr>
<td>OS</td>
<td>Abbreviation for <em>operating system</em>.</td>
</tr>
<tr>
<td>DB</td>
<td>Abbreviation for <em>database</em>.</td>
</tr>
</tbody>
</table>
2 Planning

This section of the guide contains important information that you need to read before starting your update or upgrade process.

2.1 Supported Source Releases

This section provides an overview of the supported upgrade and update paths for SAP Supplier Relationship Management (SAP SRM).

Before the update or upgrade, your SAP system must have one of the source releases that have been released for this update or upgrade and apply to all databases.

**CAUTION**

If you have to apply Support Packages to your source release shortly before the update or upgrade, check whether the equivalent Support Package for the target release is already available. Otherwise, this may delay your update or upgrade schedule.

<table>
<thead>
<tr>
<th>Source Releases</th>
<th>Target Release</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP SRM 5.0</td>
<td>SAP SRM 7.13 (based on SAP NetWeaver 7.40 ABAP and SAP NetWeaver 7.40 Java)</td>
<td>A one-step upgrade is possible for all source releases</td>
</tr>
<tr>
<td>SAP SRM 7.0</td>
<td>SAP SRM 7.13 (based on SAP NetWeaver 7.40 ABAP and SAP NetWeaver 7.40 Java)</td>
<td>Update (enhancement package installation)</td>
</tr>
</tbody>
</table>

2.2 Upgrading Live Auction Cockpit

**RECOMMENDATION**

Note that SAP strongly recommends using the Live Auction ABAP version as of SAP SRM 7.01. For more information, see the businessfunction documentation [http://help.sap.com/srm713](http://help.sap.com/srm713) → Application Help → SAP Library → SAP Supplier Relationship Management → Business Functions and Customizing Switches → SRM, Strategic Sourcing Innovations.
2.3 Upgrading the Back End

Procedure

Update of the R/3 Plug-In

When you upgrade your SAP Supplier Relationship Management (SAP SRM) application, you must also upgrade the SAP R/3 Plug-In of your SAP R/3, SAP R/3 Enterprise or SAP ERP Central Component (ECC) back-end system up to and including SAP ERP 5.0.

You require SAP R/3 Plug-In 2004.1. Always use the highest support package level to keep your back-end system as up-to-date as possible.

NOTE

As of SAP ERP Central Component (SAP ECC) 6.0, all integration interfaces previously delivered with the SAP R/3 Plug-In and all new or extended integration interfaces are no longer delivered with their own add-on (SAP R/3 Plug-In). Instead, these interfaces are contained directly in SAP ERP ECC.

PI 2004.1 is the final separately delivered SAP R/3 Plug-In release.

For information about the upgrade procedure, see:

- SAP Note 181255
- SAP Plug-In on SAP Service Marketplace at http://service.sap.com/r3-plug-in

Dependency of SAP SRM with Other SAP Applications

For some SAP SRM business functions, it is mandatory to have a specific SAP ERP release or enhancement package in your system landscape. You need to check the technical requirements of the business functions you wish to activate and upgrade your back-end system as needed.


Some SAP SRM business scenarios or deployment options are also dependent on specific SAP ERP releases or other SAP applications. You need to check these technical requirements and perform any necessary upgrades.


2.4 Restoring UI Variants

- SAP GUI variants
When SAP extends program interfaces to enable new functions, it may occur that you can no
longer use or even display program variants after the upgrade. Therefore a Variant Restore tool is
available that saves variant data and then adjusts them to the new report interfaces (relevant for
some SAP GUI-based Customizing and Monitoring user interfaces).
This tool requires some activities before the upgrade (on the source release) as well as after the
upgrade (on the target release). You have to run the reports RASUVAR1 and RASUVAR2.

- Web Dynpro metadata framework:
  You can adapt and expand metadata or define additional fields for Web Dynpro user interfaces in
  Customizing for SAP SRM: SRM Server → Cross-Application Basic Settings → Extensions and Field Control
  (Personalization)

### 2.5 Internet Pricing and Configurator

The Internet Pricing and Configurator (IPC) is part of the software layer SAP Application Platform (SAP
AP) 7.0. It is processed on the ABAP application servers using the Virtual Machine Container (VMC)
as runtime environment. For more information, see SAP Note 844817.
For information about the upgrade from IPC 4.0 to SAP AP 7.0, see SAP Note 844816.
You can check if you need the IPC for your business scenarios in the Master Guide for SAP Supplier Relationship
Applications → SAP SRM → SAP SRM Server 7.13](http://service.sap.com/instguides → Installation & Upgrade → SAP Business Suite
Applications → SAP SRM → SAP SRM Server 7.13).
To be able to use the IPC, you must activate the VMC after the upgrade. For more information, see
Activating VMC for the Internet Pricing and Configurator [page 30].
This section of the guide contains important information about preparatory tasks that you need to do before starting your update or upgrade process.

### 3.1 Preparations for the Middleware

#### Procedure

**Checking the Processing of All Messages in the ERP Back End**

To see how the BDoc messages have been processed, display the BDoc message summary. You must perform this step before the upgrade downtime begins.

**NOTE**

It is possible that a large number of messages is displayed.

1. To display a summary of the BDoc messages, which have not been processed successfully in the whole system (in all the clients), choose `Tools → Middleware: Basis → Monitoring → Message Flow Display Unprocessed BDoc Message Summary` (transaction SMW03), and then choose `Execute`.

   The list of incomplete messages within specific clients is displayed.

   Log on to each of these clients and execute the following steps.


3. Select the required messages and choose `Execute`.

   You will see a list of messages aggregated by BDoc type. The messages that are not completely processed are marked in red or yellow. To view them, double-click a BDoc type.

4. Stop all transactions in the SRM Server and external systems. Then check whether each/all inbound and outbound queues named EBP*/R3A* are processed in the SRM Server (using inbound queue monitor SM02 and outbound queue monitor SM01) and no other changes are expected from external systems, and then choose `Refresh`.

   If some messages are still not processed, double-click the corresponding BDoc type and analyze the reason for their incomplete status. It is possible, that the BDoc messages are in error status (E01, E02, E03, E04) or intermediate status (I01, I02, I03, I04). Such messages are caused, for example, by coding errors, missing customizing, cancelled updates, or manually deleted queues. You have the following possibilities:

   - Contact your administrator and SRM consultant to decide if you want to reprocess the BDoc messages by choosing `Reprocess BDoc Message` or set them as deleted by choosing `Mark Message As`
Deleted. Note that if you reprocess or delete messages, this may imply an incorrect processing sequence which can cause inconsistencies in your landscape.

- Clean up all pending BDocs by running report SM08_REORG. This report has a selection screen, and cleanup can be done based on date of arrival of the BDocs, erroneous BDocs, and so on.
- Find out the business object involved in the BDoc message and then define and start a request from the corresponding source system to the target system by choosing Tools → Middleware: Basis → Data Exchange → Synchronization → Define Requests / Start Requests (transactions R3AR2 and R3AR4).
- You can mark BDoc messages that result from old initial loads or requests as deleted, if newer initial load or synchronization processes have been started.

Before the upgrade downtime starts, all messages must display a green light, meaning that they have been processed successfully.

5. Archive all processed messages by running report SM08_FLOW_REORG in all clients of the SRM server.

To reorganize all processed BDoc messages in the SRM server, proceed as follows:
1. Enter the date of the next day in the parameter field Last Changed On.
2. Deselect the Test Mode checkbox.
3. Choose Execute.

Deregistering R3A*/EBP* Inbound Queues in the ERP Back End

To deregister the inbound queues before the upgrade downtime, proceed as follows:
1. Call the qRFC monitor (transaction SMQR).
2. Select the R3A*/EBP* inbound queues.
   Depending on the Customizing of table CRMCONSUM, the inbound queue may be called something else. This is based on the entry under Consumer in table CRMCONSUM, or the prefix Q. For more information, see SAP Note 720819.
3. Choose Deregistration.

### 3.2 Free Space Requirements

Make sure that at least the following free space is available in the system that you want to update (upgrade):

<table>
<thead>
<tr>
<th>Directory</th>
<th>Free Space Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUM Directory</td>
<td>Approximately 15 GB</td>
</tr>
<tr>
<td>Download Directory</td>
<td>Approximately 20 GB</td>
</tr>
<tr>
<td>(temporary space requirement)</td>
<td></td>
</tr>
<tr>
<td>DIR_TRANS</td>
<td>Approximately 10 GB</td>
</tr>
<tr>
<td>Shadow System</td>
<td>Approximately the space required for your source release instance, that is, the size of the following directory:</td>
</tr>
<tr>
<td></td>
<td>UNIX: /usr/sap/sapsid</td>
</tr>
</tbody>
</table>
### 3.2 Free Space Requirements

<table>
<thead>
<tr>
<th>Platform</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows</td>
<td><code>&lt;drive&gt;:\usr\sap\&lt;sapsid&gt;</code></td>
</tr>
<tr>
<td>IBM i</td>
<td><code>&lt;usr/sap/&lt;SID&gt;</code></td>
</tr>
</tbody>
</table>

**Free space in the database**

- Approximately 50 GB
This page is left blank for documents that are printed on both sides.
This section of the guide contains information about process-related application-specific tasks—if there are any (in some cases, there are no application-specific tasks).

### 4.1 Note About the Process

**NOTE**

The update and upgrade processes are described in detail in the Software Update Manager (SUM) guide:

*Update Guide - Update of SAP Systems Using the Software Update Manager* <latest version>

You have to use the Software Update Manager (SUM) guide in parallel with this application-specific guide, because the two types of guide complement each other— the SUM guide contains the overall process, tool, operating system- and database-specific information while this guide contains the application-specific information.

SAP Supplier Relationship Management 7.0 Enhancement Package 3 actually requires no application-specific steps in the *Process section*—there are only generic steps documented in the SUM guides.


### 4.2 Update and Migration Process for SAP HANA

This section provides an overview of the update and upgrade process steps required to enable SAP enhancement package 3 for SAP SRM 7.0 to run on SAP HANA. It also provides references to the documentation required for the process steps.

The following table contains definitions of the most important terms used in this section:

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update</td>
<td>Installation of an enhancement package on an existing SAP system.</td>
</tr>
<tr>
<td>Upgrade</td>
<td>Upgrade to an SAP system including an enhancement package.</td>
</tr>
</tbody>
</table>

The update process consists of the steps listed below, some of which may be optional, depending on your start release.
Before performing the steps described below, consider making a homogeneous system copy to preserve your current status, so that you have a reference or fallback system in place. You can do the system copy before any of the steps below, depending on your requirements and schedule. For more information about system copy of systems based on SAP NetWeaver 7.3 (or higher), see the documentation at [http://service.sap.com/sltoolset](http://service.sap.com/sltoolset) → Software Provisioning Manager 1.0.

For more information about system copy of systems based on SAP NetWeaver releases lower than 7.3, see the SAP NetWeaver installation guides at [http://service.sap.com/instguides](http://service.sap.com/instguides) → Installation & Upgrade Guides → SAP NetWeaver.

1. Installation of Application Function Libraries (AFLs)

2. Dual-stack split
   As of SAP enhancement package 2 for SAP SRM 7.0 you cannot deploy a dual-stack system (with both ABAP and Java components running the same system). If your system is currently implemented as a dual-stack system, you have to perform a split.
   For information on how to do a dual-stack split, see: 1686144, 1655335 and Tool Guides at [http://service.sap.com/sltoolset](http://service.sap.com/sltoolset) → Software Provisioning Toolset 1.0 → Dual-Stack Split.

3. Database migration
   Before performing these substeps, check the release information note (RIN for SAP SRM 7.00 EHP3 SP1) 1818517.
   This step consists of the following substeps:
   1. Install SAP HANA
      The SAP HANA appliance software can only be installed by certified hardware partners on validated hardware running a specific operating system.
   2. To migrate your source database to the SAP HANA database, you perform a heterogeneous system copy. How to perform the system copy is described in the guide referenced in the note below.
NOTE

Database Migration for SAP HANA Database
An existing SAP system is migrated to the SAP HANA database automatically using the Database Migration Option (DMO) of the Software Update Manager (SUM), which updates and migrates the database in one step. For more information, see SAP Notes 1875197 and 1813548, and SAP Service Marketplace at http://service.sap.com//sltoolset. You need to use at least SPS09 of the Software Update Manager 1.0.
5 Follow-Up Activities

This section of the guide describes application-specific steps that have to be done after the update or upgrade process is complete.

5.1 Follow-Up Activities for the Middleware

Procedure

Reregistering Inbound Queues
To reregister the inbound queues in the ERP back end, choose Tools → Middleware: Basis → Administration → Register/Deregister Queues (transaction SMQR) and proceed as follows:

1. Select the EBP*/R3A* inbound queues. Depending on the Customizing of table CRMCONSUM in the SAP Supplier Relationship Management system, the inbound queue may have a different name. This is based on the entry under Consumer in table CRMCONSUM, or the prefix Q. For more information, see SAP Note 720819.
2. Choose Registration.

Updating SAP Delivered General Filters for Existing Sites
For information about how to update general filters for existing sites that were newly delivered by SAP, see SAP Note 569658.

Regenerating Middleware Services
After the upgrade, you have to generate new runtime objects (services) for your own BDoc types, for modified BDoc types, and for industry-specific objects in each of your systems. The generation queue has been filled during the upgrade. To initiate the processing of this queue, choose Tools → Middleware: Basis → Development → Generation → Start Generation Queue Processing (transaction GN_START). Schedule a periodic background job for this step.

Checking Middleware Functions
After you have performed all Middleware-related post-upgrade activities, you must check whether the middleware works properly. To check the Middleware functions, call transaction MW_CHECK.
5.2 Setting Up Calculation Schema and Conditions

Procedure

Upgrade from SAP SRM 4.0 or Higher

If you use standard settings for pricing and conditions, you can use a Business Configuration Set (BC Set). If not, you must adjust condition groups manually.

The BC Set provides your system with standard settings for the calculation schema, condition types, and condition groups and for arranging the condition types in the calculation schema.

NOTE

We recommend that you use BC Set BBP_CONDITIONS to upgrade your Customizing. This is, however, only helpful if you use standard settings for pricing and conditions. If this is not the case, you must check and manually adjust the following settings.

Make sure the condition group Customizing contains the correct values. There have to be the following condition groups (which you can adjust to your needs):

- PRODUCTBBP
- 0100
- 01CO
- 01QU

For more information, see Customizing for SAP SRM: SRM Server → Cross-Application Basic Settings → Pricing → Process Condition Groups.

5.3 Regenerating User Profiles

The roles (including their transactions) that are assigned to the user profiles may have changed after the upgrade. You therefore have to regenerate the user profiles after the upgrade.

Procedure

1. In the SAP menu, choose Tools → User and Role Maintenance → Role Maintenance.
2. Choose Utilities → Mass Generation.
3. Select All Roles and select Generate Automatically.
4. Start the transaction.
5. The system displays an overview of all roles.

- All the relevant roles with the corresponding profiles are highlighted in green, which means that they have been generated successfully.
- Roles with corresponding profiles that are highlighted in red contain conflicts that you can resolve by processing the role and the profile directly.
5.4 Workflow Upgrade

This section describes the workflow frameworks that are offered in SAP SRM Server 7.0, and discusses the upgrade paths and upgrade strategies available. It is intended to support upgrade planning by giving an overview of the required activities in the workflow area. It is not intended to give detailed information about required configuration because this information can be found in SAP Solution Manager under Basic Settings for SAP SRM → Cross-Application Settings → Business Workflow.

SAP SRM 7.13 supports the following business workflow frameworks:

- **Application-controlled workflow**
  This refers to the SAP SRM approval workflows, based on SAP Business Workflow, that are used in SAP SRM 5.0 and lower. With this framework, the application is in control of the SAP Business Workflow templates. Application-controlled workflows allow you to build workflow processes dynamically. However, this can cause problems in maintaining the workflow and keeping well-structured implementations. This type of workflow also allows you to define the changeability of a document by analyzing the security level of an agent. These security levels can also be used for Business Add-In (BAdI) workflows.

  In SAP SRM 5.0 and lower, two main groups of workflows were available:
  - Template-based workflows
    - 0-step, 1-step, and 2-step workflows
      (The 0-step workflow is also known as automatic approval.)
  - Dynamic workflows
    - n-step workflows defined by BAdI implementations

- **Process-controlled workflow**
  This refers to the SAP SRM approval workflows, based on SAP Business Workflow, that were introduced in SAP SRM 6.0 to replace application-controlled workflows. With this framework, the configured process (not the application) is in control of the process flow.

  The benefit of the process-controlled workflow framework is that it makes processes more transparent and reduces the number of different workflow processes. It is also more flexible, with new functionality to define workflow processes.

  Other improvements with process-controlled workflows are that they are easier to maintain and support, they are less sensitive to errors, and they are easier to configure.

5.4.1 Upgrade Preparation

Before starting the upgrade process, you must consider which workflow framework to use:

- If you are a new SAP SRM 7.03 customer, you must use the process-controlled workflow framework. We do not support application-controlled workflows for new customers.
If you are using SAP SRM 6.0, you are already using process-controlled workflows. No steps are necessary to upgrade to SAP SRM Server 7.03. A switch from the process-controlled workflow framework to the application-controlled workflow framework is not supported.

If you are using SAP SRM 5.0 or lower, we strongly recommend that you upgrade to the process-controlled workflow framework.

Continued use of the application-controlled workflow framework is only intended in exceptional cases if you are upgrading from SAP SRM 5.0 or lower – only if your business needs absolutely require it. Note that in most cases the process-controlled workflow can be adapted to suit your business requirements. Use the following comparison matrix to help you analyze your needs regarding your upgrade strategy. If you intend to continue using the application-controlled workflow, we recommend that you also consult with your SAP representative.

**Comparison Matrix**

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Process-Controlled Workflow</th>
<th>Application-Controlled Workflow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team purchasing should be possible</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>n-step approval should be possible by configuration (without BAdI implementation effort on customer side)</td>
<td>Supported</td>
<td>Implementation of BAdI BBP_WFL_APPROV_BADI required; possible for purchase order, shopping cart, RFx response, RFx, contract</td>
</tr>
<tr>
<td>Approval per item</td>
<td>Available by configuration for shopping cart, purchase order, contract</td>
<td>Available for shopping cart</td>
</tr>
<tr>
<td>Approval with distributed responsibility (approver has to approve/reject only those items that he or she is responsible for)</td>
<td>Available by configuration for shopping cart</td>
<td>Implementation of BAdI BBP_WFL_APPROV_BADI required and only possible for shopping cart</td>
</tr>
<tr>
<td>Changing document by approver during approval anytime</td>
<td>Only possible during approval levels with completion</td>
<td>Supported (depending on security level)</td>
</tr>
<tr>
<td>Rule-based reviewer</td>
<td>Supported</td>
<td>Reviewers must be added manually</td>
</tr>
<tr>
<td>Add ad hoc approver</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>Delete ad hoc approver</td>
<td>Possible as long as work item is in process</td>
<td>Not possible</td>
</tr>
<tr>
<td>Replace ad hoc approver</td>
<td>Ad hoc approver must be deleted; a new one can be inserted</td>
<td>Supported</td>
</tr>
<tr>
<td>Forwarding work items</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>Creation of substitution rules</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>Add reviewer manually</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>Delete reviewer</td>
<td>Possible as long as work item is in process</td>
<td>Supported</td>
</tr>
<tr>
<td>Replace reviewer</td>
<td>Reviewer must be deleted; a new one can be inserted</td>
<td>Supported</td>
</tr>
<tr>
<td>Scenario</td>
<td>Process-Controlled Workflow</td>
<td>Application-Controlled Workflow</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Archiving</td>
<td>Workflow data will be archived when archiving documents</td>
<td>Workflow data must be archived separately</td>
</tr>
<tr>
<td>Flexible agent determination</td>
<td>Default BAdI implementations available; creation of implementations for BAdI definition /SAPSRM/ BD_WF_RESP_RESOLVER</td>
<td>Implementation of BAdI BBP_WFL_APPROV_BADI required, or modification of SAP coding</td>
</tr>
<tr>
<td>Workflow process restart in case of document change</td>
<td>Default behavior can be changed by implementing BAdI interface /SAPSRM/ IF_EX_WF_PROC_RESTART</td>
<td>Depends on security level of user who changed the document (personalization object BBP_WFL_SECURITY) or on implemented BAdI BBP_WFL_APPROV_BADI</td>
</tr>
<tr>
<td>Back &amp; forth feature</td>
<td>Available during completion levels for all documents and in case of partial rejection</td>
<td>Available for purchase order, shopping cart, RFx in case of n-step approval (implementation of BAdI BBP_WFL_APPROV_BADI required)</td>
</tr>
<tr>
<td>Save document during approval (without work item execution)</td>
<td>Supported</td>
<td>Available for purchase order, shopping cart, RFx in case of n-step approval (implementation of BAdI BBP_WFL_APPROV_BADI required)</td>
</tr>
<tr>
<td>Complete approval history available in Approval Process Overview despite workflow process restart</td>
<td>Supported</td>
<td>Customer-specific BAdI implementation required BBP_WFL_APPROV_BADI (not supported for template-based workflow)</td>
</tr>
<tr>
<td>Reviewer actions available in Approval Process Overview</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>Work item flagged in UWL if configured deadline exceeded</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>Offline approval for forwarded work items</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>Display of cost center splitting of shopping cart items in offline approval</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
5.4.2 Upgrade Process

5.4.2.1 Application-Controlled Workflow to Process-Controlled Workflow

**Configuration (Required)**

Analyze your existing workflow configuration of application-controlled workflows. If you use only the standard templates, you can use a migration tool to migrate start conditions. See Customizing for SAP Supplier Relationship Management under **SRM Server → Cross Application Basic Settings → Business Workflow → Upgrading → Migrate Workflows to BRF**.

A manual configuration for process-controlled workflow is also possible. See SAP Solution Manager under **Configuration → SAP SRM 7.0 EHP 3 → Basic Settings for SAP SRM → Cross-Application Settings → Business Workflow → Process-Controlled Workflow**.

**Framework Switch (Required)**

**NOTE**

In test systems, it is possible to switch to process-controlled workflows by business object type. This upgrade strategy can help you become familiar with process-controlled workflows before switching to this framework in your production system.

The switch to the process-controlled workflow framework is available in SAP Solution Manager under **Configuration → SAP SRM 7.0 EHP 3 → Basic Settings for SAP SRM → Cross-Application Settings → Business Workflow → Select Workflow Framework**.

The process-controlled workflow framework is configured by system default (on delivery from SAP). However, if the application-controlled workflow framework was subsequently configured, and you later want to use process-controlled workflows, you must switch back to the process-controlled workflow framework.

**RECOMMENDATION**

We strongly recommend that you use only one workflow framework in your production system. Switch to the process-controlled workflow framework for all business object types in the production system.

**Document Migration (Optional)**

Before using the document migration tool described below, carry out the configuration of your process-controlled workflows.

A migration tool for documents is provided in Customizing for SAP Supplier Relationship Management under **SRM Server → Cross Application Basic Settings → Business Workflow → Upgrading → Migrate Workflows to BRF**. Executing this report stops all running approval processes and restarts them using the process-controlled workflow framework.
RECOMMENDATION

Depending on the number of running approval processes, the migration process can take some time. We recommend that you run the migration process with exclusive system access.

If you do not do the migration, documents processed with application-controlled workflows and documents processed with process-controlled workflows will exist in the system in parallel. Note that the system behaves differently depending on the workflow framework being used. You must configure the universal worklist (UWL) for application-controlled workflows because remaining documents must be listed in the UWL of the respective approver.

5.4.2.2 Application-Controlled Workflow to Application-Controlled Workflow

You should use application-controlled workflows only if considerable effort is required to migrate to process-controlled workflows.

Configuration (Required)

Application-controlled workflows must be configured as in previous SAP SRM releases. See SAP Solution Manager under Configuration → SAP SRM 7.0 EHP 3 → Basic Settings for SAP SRM → Cross-Application Settings → Business Workflow → Application-Controlled Workflow.

The universal worklist (UWL) configuration delivered with a corresponding business package takes all standard tasks for application-controlled workflows and process-controlled workflows into consideration. However, if you have created your own workflow templates, additional configuration is required for the tasks that require user interaction. SAP Note 1224389 describes how to configure these tasks.

Framework Switch (Required)

The switch to the application-controlled workflow framework is available in SAP Solution Manager under Configuration → SAP SRM 7.0 EHP 3 → Basic Settings for SAP SRM → Cross-Application Settings → Business Workflow → Select Workflow Framework.

5.5 Registering the SRM Client as Local System

After the upgrade you must register the SAP Supplier Relationship Managament (SAP SRM) client as the local system. This customizing setting is required for all SAP SRM scenarios including the classic scenarios.

Procedure

1. In Customizing for SAP Supplier Relationship Management, choose SRM Server → Technical Basic Settings → Define System Landscape.
2. Choose system type \textit{LOCAL}.

\section*{5.6 Copying Tax Engine Configuration Data}

Prior to SAP Supplier Relationship Management 5.0 (SAP SRM), you could assign a separate client to the Tax Engine (TTE) which then provided the customizing data for the TTE at runtime. For technical reasons this feature is no longer supported. Every client from which TTE is used now needs its own customizing settings. A tool is provided that can be used to copy the TTE customizing settings from a separate source client to all the other clients as needed.

\textbf{Prerequisites}

You have used a separate client to provide customizing data for the Tax Engine.

\textbf{Procedure}

For information about the procedure, see SAP Note 831339.

\section*{5.7 Migrating Organizational Model Data}

As of SAP Supplier Relationship Management 5.0 (SAP SRM), the functionally enhanced ERP-ORG organizational model is used both in SAP Enterprise Resource Planning (SAP ERP) and in SAP SRM. This is another step toward harmonizing master data in an integrated ERP scenario. The organizational model change affects, amongst others, the external business partners. They are no longer depicted in the organizational model of the company that runs SAP SRM. That means, they are no longer represented by an organizational unit in the organizational model.

If you are upgrading from a system below SAP SRM 5.0, you must execute report \texttt{BBP\_XPRA\_ORGEH\_TO\_VENDOR\_GROUP} to ensure that your existing data is migrated. This report deletes all organizational units and positions of the vendor/bidder and - on the basis of their attributes - groups these together into new organizational objects called vendor groups (VGs).

For more information about the organizational model changes, see the Release Note for SAP SRM 5.0 \textit{SRM Organizational Model (Changed)} available in your upgraded system at \url{Help \rightarrow Release Notes} or on SAP Service Marketplace at \url{http://service.sap.com/releasenotes} \rightarrow \textit{Release Notes — What’s New} \rightarrow \textit{SAP Solutions} \rightarrow \textit{SAP Supplier Relationship Management}.

\textbf{Procedure}

Run report \texttt{BBP\_XPRA\_ORGEH\_TO\_VENDOR\_GROUP} in every client for every central organizational unit for vendors (root organizational unit).

\textbf{CAUTION}

Report \texttt{BBP\_XPRA\_ORGEH\_TO\_VENDOR\_GROUP} copies only the standard attributes shipped by SAP for external business partners:
If you use other attributes for external business partners, you have to register them before you execute the report in view T77OMATTOT (table maintenance: transaction SM30) for the B2B Procurement scenario and the object type. Otherwise, these attributes will be ignored by the conversion report, and will be lost.

5.8 Converting Old Text IDs

As of SAP Supplier Relationship Management 5.0 (SAP SRM), you can use configurable text schemes for document texts. To support this function, new text types have been introduced for some documents. To make sure that texts from the previous release remain visible, you must convert the old text types to the new text types with report BBP_TEXTID_UPGRADE_TO_SRM50.

EXAMPLE

Text type NOTE must be converted to NOTM for BUS2121.

The conversion report obtains the rules for the conversion from Customizing table BBPC_TEXT_RELMAP, which is delivered by SAP. If you have introduced some customized TextIDs into your SAP system, you must enhance table BBPC_TEXT_RELMAP using transaction SM30 with maintenance view BBPV_TEXT_RELMAP.

CAUTION

You must start the conversion report manually before you use your SAP system productively. You can restart the report if the process terminated due to errors in Customizing or when writing data to the database. Do not restart the report once the SAP system has gone live and documents have been created with the new TextIDs!

Procedure

1. If you have introduced customized TextIDs into your SAP system, use transaction SM30 with maintenance view BBPV_TEXT_RELMAP to enhance table BBPC_TEXT_RELMAP.
2. Run report BBP_TEXTID_UPGRADE_TO_SRM50 to convert old TextIDs into the new format.
5.9 Activating VMC for the Internet Pricing and Configurator

The Internet Pricing and Configurator (IPC) is part of the software layer SAP Application Platform (SAP AP) 7.0. It is processed on the ABAP application servers using the Virtual Machine Container (VMC) as runtime environment.

To be able to use the IPC, you must activate the VMC after the upgrade. The activation process is described in SAP Note 854170.

5.10 Checking Changed User Attributes After the Upgrade

The Function attribute replaces the Type attribute and processes the function of an organizational unit.

For more information about attributes used in SAP Supplier Relationship Management (SAP SRM), see:

  SAP Supplier Relationship Management → SAP Enhancement Package 3 for SAP SRM 7.0 → Application Help → SAP Library → SAP Supplier Relationship Management → Functions → Administrative Functions → User Attributes
- SAP Solution Manager → SAP SRM → Configuration Structures → SAP SRM 7.0 EHP3 → Basic Settings for SAP SRM → Organizational Management → User Management → Maintain User Attributes

5.11 Using Enhanced Hierarchies

As of SAP Supplier Relationship Management 7.0 (SAP SRM 7.0), you can use enhanced hierarchies, in addition to the existing hierarchies in Sourcing, to support highly structured service requirements in your procurement processes.

Enhanced hierarchies are supported in Sourcing and Supplier Self-Services. For shopping carts, hierarchies are only supported when they have been created based on external requirements with hierarchies; in other words, you cannot create shopping carts in SAP SRM and then build the enhanced hierarchies. For RFx and RFx responses, it is mandatory to use enhanced hierarchies. For more information, see SAP Note 1267549. Enhanced hierarchies are not supported in SRM purchase orders and contracts. The enhanced hierarchies from RFx responses are mapped to simple items when they are transferred to a purchase order or contract in SAP SRM.

The following table shows the hierarchy architecture used for procurement documents in SAP SRM 7.0 and lower releases.

<table>
<thead>
<tr>
<th>Document</th>
<th>Process Type / Description</th>
<th>SAP SRM 6.0 and Lower Releases</th>
<th>SAP SRM 7.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shopping cart</td>
<td>SHP (local)</td>
<td>Old hierarchies</td>
<td>Old hierarchies</td>
</tr>
<tr>
<td>Shopping cart</td>
<td>EXTR (purchase requisition)</td>
<td>Not delivered</td>
<td>Enhanced hierarchies</td>
</tr>
<tr>
<td>RFx</td>
<td>All</td>
<td>Old hierarchies</td>
<td>Enhanced hierarchies</td>
</tr>
</tbody>
</table>
For more information, see SAP Library at [http://help.sap.com/srm](http://help.sap.com/srm)

The following procurement documents can be upgraded:

- **RFx response**
  - Follow-on documents are created from old RFx responses as before. RFx responses cannot be copied in any releases and do not need to be handled.

- **RFx**
  - The RFx user interface supports both old and enhanced hierarchies. For RFx documents created in lower releases, items are displayed as before. Additionally, the follow-on RFx responses are created using the same architecture as the RFxs. To copy old documents, newly created documents are based on the enhanced hierarchy concept and are mapped. The old hierarchy concept does not apply to new documents.

- **RFx response**
  - Follow-on documents are created from old RFx responses as before. RFx responses cannot be copied in any releases and do not need to be handled.

### Procedure

To use the new hierarchy function, you must assign hierarchy templates to the transaction types of the request for quotation (RFQ) business object. You do this in Customizing for SAP Supplier Relationship Management under **SAP SRM Server > Cross-Application Basic Settings > Service Procurement > Activate Service Procurement**. For the shopping cart transaction type EXTR, you can use the predelivered hierarchy template assignment. As of SAP SRM 7.0, you can configure service procurement by assigning a hierarchy template to RFxs, and by determining indentation for business objects. The following hierarchy templates are available:

- **HIER_SE**
  - Hierarchy template to be used when the RFx is created based on back-end purchase requisitions. This template supports the enhanced Service Procurement scenario delivered with Business Suite 7.

- **HIER_SRM**
  - Hierarchy template to be used when the RFx is created from a requirement in SAP SRM or when a local RFx is created. This template supports standard SRM processes.
5.12 Migrating Data from an Existing LAC

NOTE
The data migration is only needed if you are migrating from an SAP Supplier Relationship Management release lower than SAP SRM 6.0. Customer who are on SAP SRM 6.0 or a higher release do not need to run these reports.

After the upgrade, you need to migrate auction data and update the database to initialize new database fields in Live Auction Cockpit (LAC) for SAP Supplier Relationship Management (SAP SRM) 7.13. To do so, you must manually run two post-upgrade reports. If you have a lot of existing auction data in your system, we recommend scheduling a background job to run these reports in order to avoid time-outs.

NOTE
Before performing post-upgrade activities, ensure that the J2EE Configuration (JCo) RFC user has S_RFC authorization.

Procedure
1. In the SAP SRM system, go to transaction SE38.
2. Run report BBP_LA_DATA_MIGRATION.

Result
The data from your existing LAC are migrated.

5.13 Defining a Web Alias

After an upgrade from SRM on NW 70x to SRM on NW73x or higher the WEB alias configuration must be adapted manually again.
Refer to section 3.1, Defining Web Alias, of the Installation guide of Supplier Relationship Management 7.0 Including enhancement Package 3 ABAP and JAVA

5.14 Migrating Resource Customizations from an Existing LAC

Your upgraded SAP SRM Live Auction Cockpit (LAC) system includes application properties preserved during the upgrade process; however, it does not reflect any resource setting customizing that you may have performed in an existing SAP SRM LAC system.
RECOMMENDATION
Before copying any customizing from your existing SAP SRM LAC system to your upgraded LAC system, launch the upgraded LAC to determine if those changes are still required.

CAUTION
Due to the unknown number and types of customizing in your existing system, the following is intended as a reference guide rather than an exact procedure for migrating that customizing.

Procedure

RECOMMENDATION
To avoid overwriting your modifications whenever a patch is deployed, always create your own resource files rather than replacing or modifying those shipped with SAP SRM LAC.

1. When you have determined that you need to copy customizing from your existing SAP SRM LAC system to your upgraded LAC, identify what changes were made in your existing SAP SRM LAC system’s resource files.

   For more information, see Determining Existing Modifications in LAC [page 0].
   - **Image Files**
     A number of image files that were used in previous versions of SAP SRM LAC have been renamed or removed in SAP SRM LAC 6.0. Review your customized images and see if they are affected.
     There are also several new image files in SAP SRM LAC 6.0; you may wish to review those as well.
     For more information, see SAP Solution Manager; navigate to the configuration structure for SAP SRM 7.0 EHP 3 and choose Basic Settings for Strategic Sourcing → Sourcing with Auction → Settings Live Auction Java Server (or Live Auction ABAP Server) → Configuring the Applet to Use Customized Resources.
   - **Resource Bundles**
     A number of resource bundles that were used in previous versions of SAP SRM LAC have been renamed or removed in SAP SRM LAC 6.0. Review your customized resource bundles to see if they are affected.
     If you plan to carry over customized resource texts, make sure that the file names and the resource keys of the original resource bundle files are unchanged.
     Store all your customized resource files under:
     - UNIX: `<INSTDIR>:/usr/sap/<SAPSID>/SYS/global/srmla/resources`
     - IBM i5/OS: `<INSTDIR>:/usr/sap/<SID>/SYS/global/srmla/resources`
     - Windows: `<INSTDIR>:\usr\sap\<SAPSID>\SYS\global\srmla\resources`

2. Adjust the values of the following properties to either 1 or 2 so that your customized files can be used by SAP SRM LAC 6.0:
Follow-Up Activities

5.14 Migrating Resource Customizations from an Existing LAC

- applet.initiator.archive
- applet.respondent.archive
- applet.archive.selection

For more information, see SAP Solution Manager; navigate to the configuration structure for SAP SRM and choose Basic Settings for Strategic Sourcing → Sourcing with RFx and Auction → Settings for Auction, and see:

- Configuring the Live Auction Cockpit User Interface
- Managing Live Auction Cockpit Properties
## Typographic Conventions

<table>
<thead>
<tr>
<th>Example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;Example&gt;</code></td>
<td>Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, “Enter your <code>&lt;User Name&gt;</code>”.</td>
</tr>
<tr>
<td>Ex &gt; Example</td>
<td>Arrows separating the parts of a navigation path, for example, menu options</td>
</tr>
<tr>
<td>Example</td>
<td>Emphasized words or expressions</td>
</tr>
<tr>
<td>Example</td>
<td>Words or characters that you enter in the system exactly as they appear in the documentation</td>
</tr>
<tr>
<td><code>http://www.sap.com</code></td>
<td>Textual cross-references to an internet address</td>
</tr>
<tr>
<td><code>/example</code></td>
<td>Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web</td>
</tr>
<tr>
<td>123456</td>
<td>Hyperlink to an SAP Note, for example, SAP Note 123456</td>
</tr>
</tbody>
</table>
| Example | - Words or characters quoted from the screen. These include field labels, screen titles, pushbutton labels, menu names, and menu options.  
  - Cross-references to other documentation or published works |
| Example | - Output on the screen following a user action, for example, messages  
  - Source code or syntax quoted directly from a program  
  - File and directory names and their paths, names of variables and parameters, and names of installation, upgrade, and database tools |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, database table names, and key concepts of a programming language when they are surrounded by body text, for example, `SELECT` and `INCLUDE` |
| EXAMPLE | Keys on the keyboard |