

SAP SCM 7.0 Enhancement Package 2

Architecture, Installation and Upgrade

October 2011 Ramp Up Version



Agenda

SCM Enhancement Packages

- **Concept**

SCM Server Architecture

- General Overview
- New Developments in Enhancement Package 2
- Deployment Options

SCM Platforms and Sizing

SCM Installation and Update

- General Overview
- Installation
- Upgrade

Miscellaneous

Enhancement Packages = Innovation + Stability

Enhancement Packages Reduce Conflict Between Stability and Innovation

INNOVATION



- Fast and easy introduction of business innovation at any time when needed



ENHANCEMENT PACKAGES = INNOVATION + STABILITY



- Enable IT to continuously provide new functionality: Installation of enhancement packages as part of routine maintenance
- Selective, non-disruptive activation of innovation at any time - driven by business needs

STABILITY

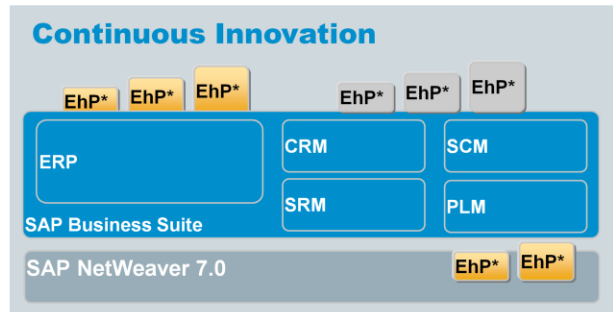


- Stable and robust business processes for maximum efficiency and low TCO
- Routine deployment of support packages to sustain compliance

SAP SCM 7.0 – Part of the SAP Business Suite 7.0

The Stable Core Release for the Next Years I

Facing the challenge : Customers want Stability AND Innovation



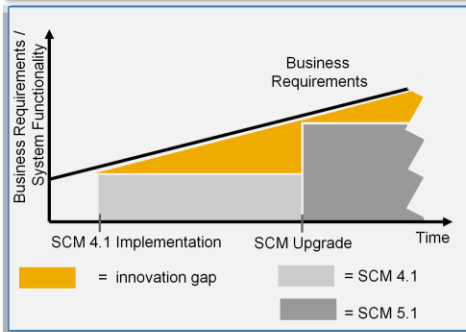
SAP Business will be shipped as the base release that will remain stable for the following years. New functionality will be shipped as optional enhancement packages that can be used by customers selectively if required for their business. The enhancement packages introduce new functions on top of the SAP Business Suite 7.0 release with minimum impact on existing functionality.

*In this presentation we will use the abbreviation 'EhP' for the term 'enhancement package'.

SAP SCM 7.0 – Part of the Business Suite 7.0

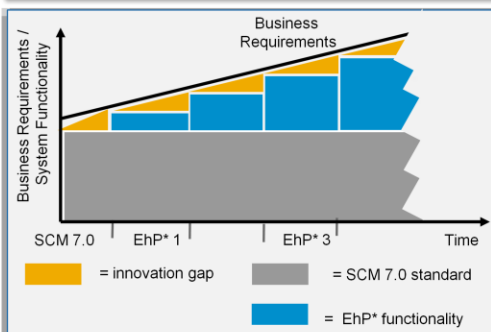
The Stable Core Release for the Next Years II

In previous days: SCM Upgrades ...



Upgrade as a major business activity every 5-6 years to fulfill business requirements.

... and now: SAP SCM Enhancement Packages

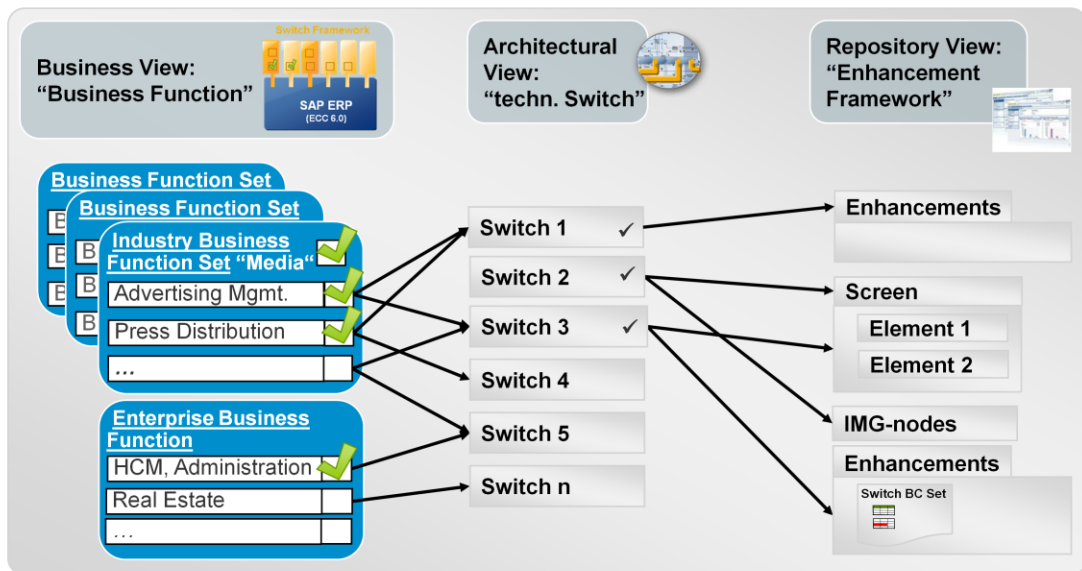


New functionality implemented in digestible portions via SAP enhancement packages.

Business Driven Enhancements by **CHOICE**:

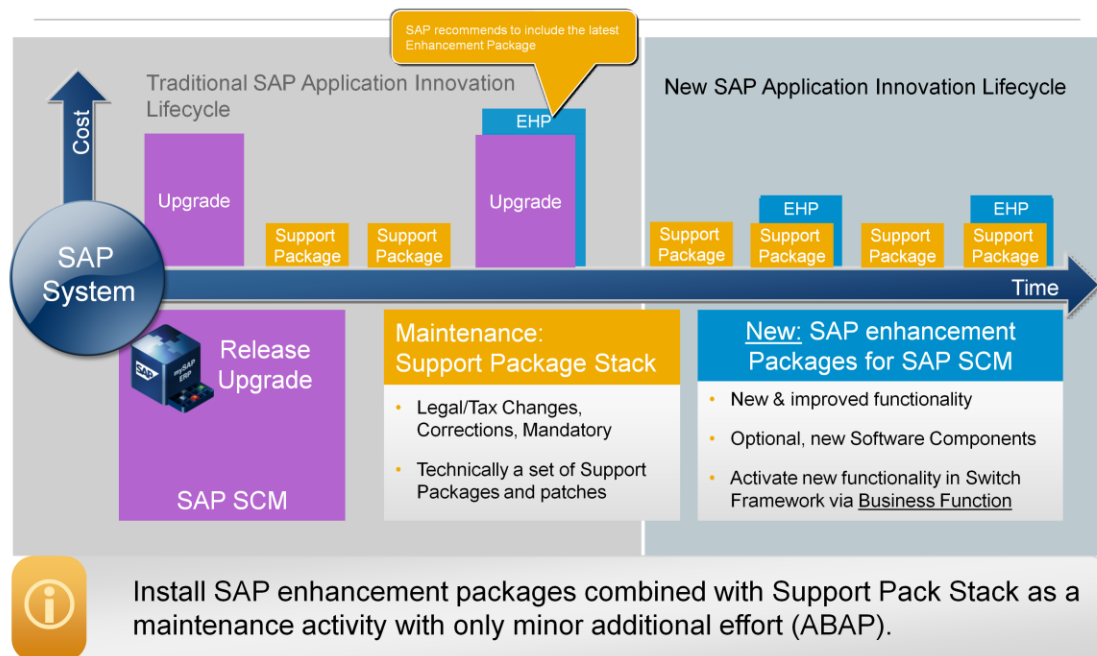
- Flexibility to implement new and enhanced processes and scenarios
- Switch framework provides flexibility to choose what functionality to use

Switch Framework Enables Optional Activation Of Business Functions: How Does It Work?



A switch controls the visibility of other repository objects.

How is This Possible?



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RKT

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But - How is this possible?

Since the installation process is decoupled from activation, you can now continuously provide the newest functionality to the system along with your regular maintenance activities. In order to use synergy effects and to minimize effort (especially regarding potentially needed modification adjustments – see above), SAP enhancement packages should be applied within one queue, together with the required Support Packages.

Using this strategy, SAP enhancement packages can be installed without causing disruption as a normal maintenance activity together with Support Packages.

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SCM Enhancement Packages

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SCM Server Architecture

- General Overview
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- Deployment Options

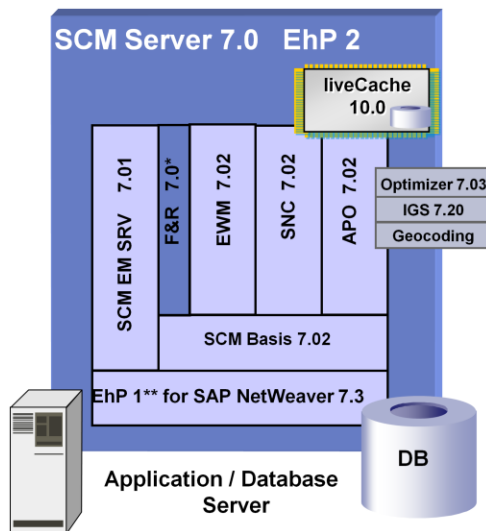
SCM Platforms and Sizing

SCM Installation and Update

- General Overview
- Installation
- Upgrade

Miscellaneous

SCM Server Architecture



EhP 2 for SAP SCM 7.0 is built on SAP EhP 1 for NetWeaver 7.3 and support integrated collaboration, planning, coordination and execution business processes.

- *Forecast & Replenishment, Retail focused solution -> out of scope in this presentation
- ** SCM 7.02 is based on EhP1 for NW 7.3

- SCM 7.0 is the version of the software component and SCM 7.0 is the name of the solution
- EWM and SCM use SCMBPLUS. SCMBPLUS consists of objects which are already available in the ERP system (e.g. IDOC structures). You don't need SCMBPLUS if you use EWM as a part of ERP.
- SCM Server is based on NW ABAP
- liveCache is an inMemory MaxDB, in SAP Enhancement Package 2 for SCM 7.0 you have to use (application) SAP liveCache 10.0 (based on liveCache 7.9, technical)
- Optimizer, IGS, Geocoding are service based executables/components

SAP SCM 7.0 Technical Components*

SAP SCM Server 7.0 (based on SAP NetWeaver 7.31 usage type AS-ABAP)
SAP SCM Server 7.0 (usage type AS-Java) optionally for F&R (Store User Interface)

SCM liveCache (LCAPPS) 10.0 based on SAP liveCache release 7.9 for APO

SCM Optimizer 7.03 for APO

SCM Geocoding for APO

SAP Internet Graphics Service 7.20
cFolders Addon for SNC (CPRXRPM Package)

XI CONTENT SCM 7.02
XI CONTENT SCM BASIS 7.02
XI CONTENT QIE 200
XI CONTENT EWM 7.02
XI CONTENT SNC 7.02
XI CONTENT SCMEMSRV 7.01

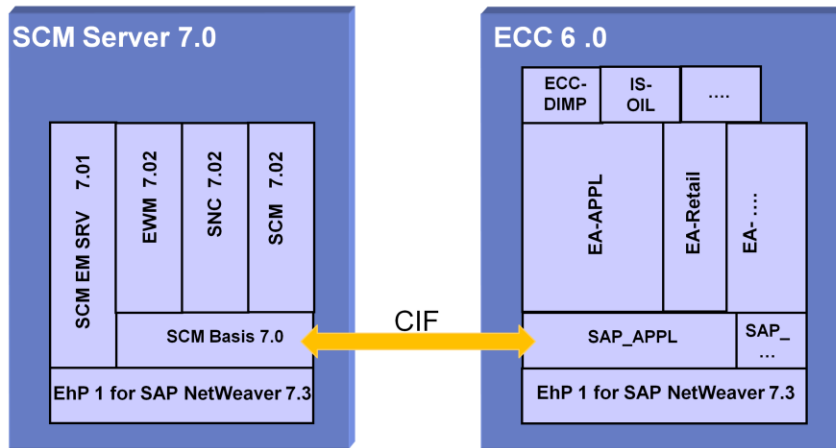
SAPGUI 7.20

....

Software Component Name	Software Component Release	Short Description of Software Component
SAP_ABA	7.02	Cross-Application Component
SAP_BASIS	7.31	SAP Basis Component
PI_BASIS	7.31	Basis Plug-In
SAP_BS_FND	7.31	SAP Business Suite Foundation
SAP_BW	7.31	SAP Business Warehouse
BI_CONT	7.46	BI_CONT
CPRXRPM	500_702	SAP xRPM/cProjects/cFolders 4.50 (ABAP)
SAP_AP	7.00	SAP Application Platform
EA-IPPE	400	SAP IPPE (EA-IPPE)
SCM	7.02	Supply Chain Management
SCM_BASIS	7.02	SCM Basis
SCMBPLUS	7.02	SCM Basis PLUS
SCMSNC	7.02	SNC
SCMSRV	7.01	SCMSRV
SCMEWM	7.02	Extended Warehouse Management
QIE	200	Quality Inspection Engine

* Incomplete extraction of the SCM component list

SCM 7.0 Integration With SAP Backend Systems I (Rough, Schematically)



SAP ERP 6.0 contains all the interfaces that so far have been contained in the SAP R/3 Plug-In. CIF is now part of the SAP_APPL software layer

SCM 7.0 Integration With SAP Backend Systems II (Required Plug In on R/3, ECC 5.0)

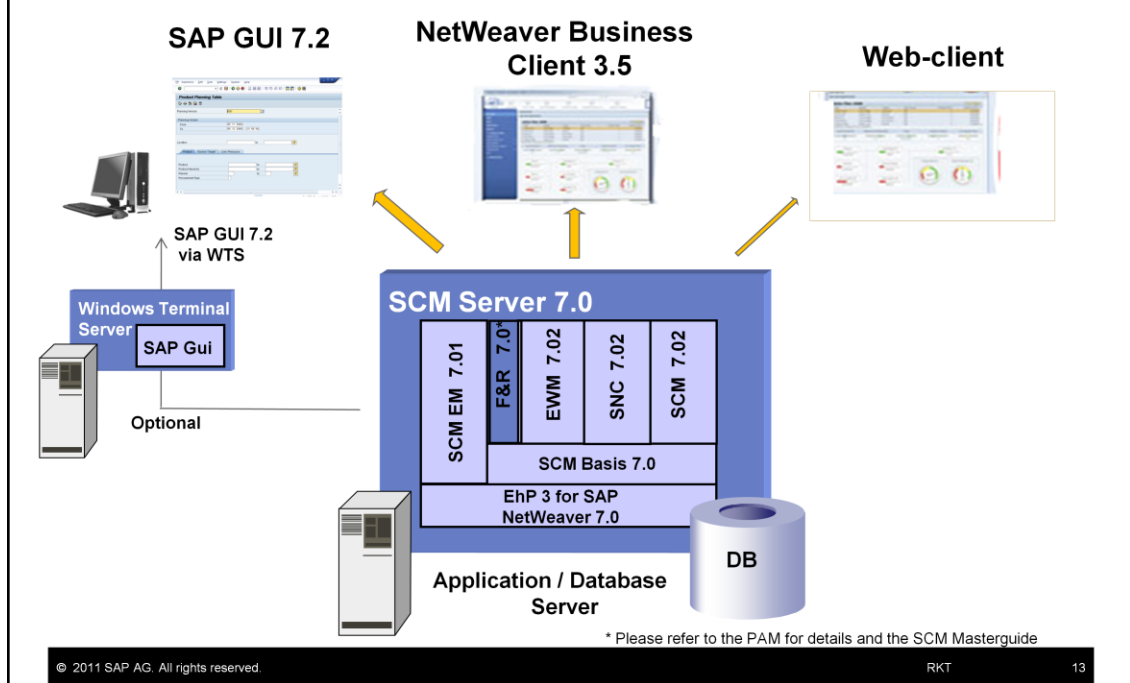
		SAP R/3 4.6C	SAP R/3 Enterprise 47x110 and 47x200	SAP ECC 5.0 (ERP 2004)
Out of Mainstream Maintenance	SAP APO 3.1	PI 2004.1 SP1	PI 2004.1 SP1	PI 2004.1 SP1
	SAP SCM 4.0	PI 2004.1 SP1	PI 2004.1 SP1	PI 2004.1 SP1
	SAP SCM 4.1	PI 2004.1 SP1	PI 2004.1 SP1	PI 2004.1 SP1
	SAP SCM 5.0	PI 2004.1 SP10	PI 2004.1 SP10	PI 2004.1 SP10
	SAP SCM 5.1	PI 2004.1 SP10	PI 2004.1 SP10	PI 2004.1 SP10
	SAP SCM 7.0	PI 2004.1 SP10	PI 2004.1 SP10	PI 2004.1 SP10

Since March 2005:

Strategy Change of SAP R/3 Plug-In / New Delivery Strategy for Integration Interfaces :

<http://service.sap.com/r3-plug-in>

SAP SCM 7.0 - Presentation Clients*



- SAP GUI: rich client, local installation necessary (workaround via WTS possible)
- NetWeaverBusinessClient: is a rich desktop client using the latest smart client technologies. Suited to business application content through its multiple rendering engines, the SAP NetWeaver BC provides a solution for hosting classical Dynpro/SAPGUI UIs, BSP pages, Portal pages, other content and offer a unique look and feel for the user.
- Web Client: zero footprint on the local client, some complex screens (i.e. interactive planning tables) only in the SAPGUI available, please check the availability in the SE93 transaction.

SAP SCM 7.0 User Interfaces (for more information see also the quicklink /sapgui)

- Depending on the SAP SCM 7.0 business application component (SAP APO 7.0, SAP EM 7.0, SAP SNC 7.0 or SAP F&R 7.0) and business scenarios, different User Interfaces are used:
- For SAP APO 7.0 based processes, the standard SAPGUI is used.
- For SAP SNC 7.0 based processes, a Web User Interface was changes from BSP (Business Server Pages) to Web Dynpro ABAP technology.
- For SAP F&R (Forecast & Replenishment retail processes) the standard

- SAPGUI is used in addition, SAP Web Dynpro Java is used for the Store User Interface (SUI)
- Independently of the User Interface type you are using, SAP Enterprise Portal (SAP EP) is always supported as option with SAP SCM 7.0. See also mySAP SCM Integration for SAP Enterprise Portal related tips for integration with mySAP SCM components.
- Please, check if the mySAP SCM transaction you want to integrate within SAP EP is HTML SAPGUI compliant by using transaction SE93. For HTML SAPGUI compliant transactions, you can use the SAPGUI for HTML within SAP EP. For non-HTML SAPGUI compliant transactions, SAP EP is to be configured using Windows SAPGUI settings.
- An ITS is required for some SAP APO business processes if you are using the SAPGUI for HTML.
Examples for this are Collaborative Planning or TP/VS. For further business processes, ITS is not required. Please, note that ITS is now embedded within SAP NetWeaver 7.0, what means that a usage of the embedded ITS is possible just as the usage of a standalone ITS (please see notes 716998 and 720121 for further information).
- workaround for web clients (due to the restriction that some APO OCX aren't web-enabled), use a Remote Desktop Technology (i.e. MS RDP, Citrix, SUN SGD) install the SAP Gui on the server .

SAP SCM 7.0 User Interface

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SAP SCM 7.0 User Interfaces

APO / EWM

- SAPGUI 7.20
- NetWeaver Business Client (NWBC)
- Webclient based on Netweaver ABAP (formerly ITS, now part of NetWeaver)

EM

- SAPGUI 7.20
- NetWeaver Business Client (NWBC)
- Webclient based on ABAP WebDynpro

SNC

- SAP GUI 7.20
- NetWeaver Business Client (NWBC)
- Webclient based on abap Webdynpro
- ECL Viewer 7.0.2 (Engineering Client Viewer) for visualizing documents within cFolders (cProject Suite)

F&R

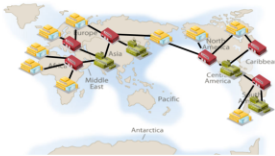
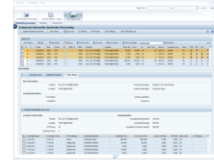
- SAP GUI 7.20
- NWBC
- Webclient for Store User Interface (NetWeaver Java)

At-a-Glance

SAP Enhancement Package 2 for SAP APO 7.0

Usability

- Improved usability for Interactive Backorder Processing and Alert Monitor
- New Planner's Home Page as entry point for supply chain planners
- Re-designed user interface adopting latest SAP UI technology (NetWeaver Business Client)

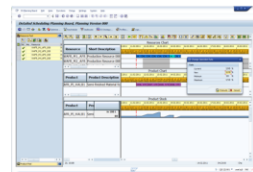


Simulation

- Enhanced flexibility in managing supply chain scenarios and production plans
- Improved version management

Functional Enhancements

- Improved handling of outliers, events & causal effects in Demand Planning
- Classification and forecast optimization
- Enable availability check during planning runs
- Enhanced capabilities for process industries in PP/DS
- Consistency checks for Service Parts Planning



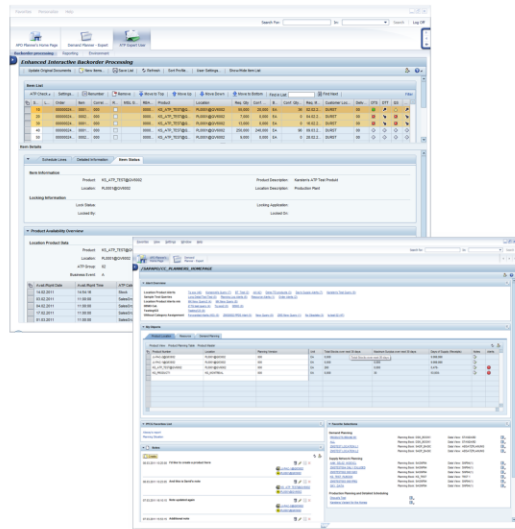
SCM 7.0 EhP2 Delivers the First Step of a new SAP APO User Experience

Solution Enhancements

- Start on a roadmap to re-design the most relevant interactive screens in SAP APO based on latest UI technology and user experience research
- In EhP2 focus is on re-designing interactive Backorder Processing, Alert Monitoring and introducing a Planner's Home Page

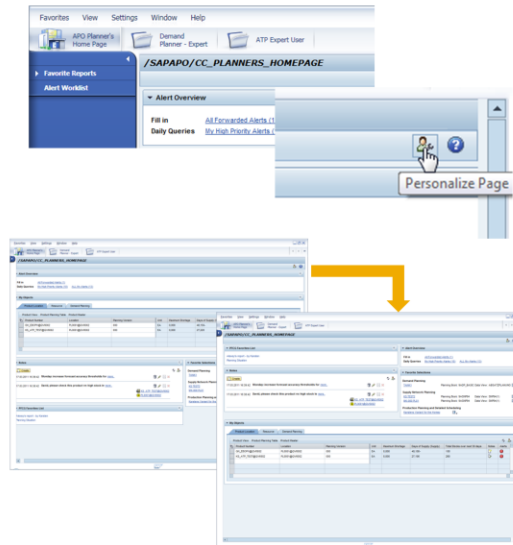
Key Benefits

- Improved usability and user efficiency
- Based on latest SAP UI technology
- Homogeneous end user experience between APO applications
- Enhanced built-in personalization features



APO UI Re-Design – Technology Information

- Use of new interactive planning screens requires NetWeaver Business Client 3.5 (NWBC 3.5), either as front-end client or as HTML client
- NWBC follows the role paradigm. Planner's Home Page requires defined user roles e.g. for navigation
- New user interfaces are based on SAP NetWeaver WebDynpro UI Technology
- Greatly improved personalization functionality in NetWeaver WebDynpro screens allows the user to customize content, structure as well as the overall layout of the screens



At a Glance

SAP Enhancement Package 2 for EWM 7.0

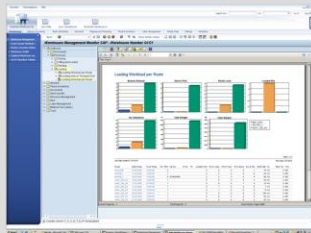


Key Message:

- Improve User Experience
- Accelerate Implementation
- Functional Enhancements & Continuous Improvement

Improve User Experience

- EWM in NetWeaver Business Client
- Crystal Reports in Warehouse Monitor



Accelerate Implementation

- **Rapid Deployment Solution**
 - Template warehouse
 - Pre-configured warehouse processes
- **Migration Tools**
 - LE-WM to EWM
 - Migration Guide



Functional Enhancements

- Cartonization
- Advanced Returns Management
- Multiple GTINs
- Material Flow System Enhancements (case conveyor systems)
- Data Switch (Monitor & EGF)
- Continuous Innovation



Manufacturing Network Planning and Execution

SAP SNC 7.02 Supplier Performance Management

Solution Enhancements

- Direct Supplier Performance Analysis in SAP SNC
- Supplier Delivery Performance Rating in SAP Netweaver BW

Key Benefits

- Support supplier performance analysis based on SAP SNC to allow our customers to leverage the comprehensive data available in SAP SNC
- Ex-post Supplier evaluation via SAP NetWeaver BW

Data basis

- Accuracy of ASN
- On-Time Delivery of ASN (= total requested quantity on-time)
- Accuracy of Supplier Confirmations
- On-Time Deliveries for Purchase Orders
- On-Time Deliveries of SA Releases

Queries

- Advanced Shipping Notifications
- Purchase Orders including PO confirmation data
- Scheduling agreement releases including SA release confirmation data

Supplier Performance Management: On-Time Deliveries for PO (Schedule Line/Quantity)

Search Criteria

Supplier: *10 *11 *12 *13 *14 *15 *16 *17 *18 *19 *20 *21 *22 *23 *24 *25 *26 *27 *28 *29 *30 *31 *32 *33 *34 *35 *36 *37 *38 *39 *40 *41 *42 *43 *44 *45 *46 *47 *48 *49 *50 *51 *52 *53 *54 *55 *56 *57 *58 *59 *60 *61 *62 *63 *64 *65 *66 *67 *68 *69 *70 *71 *72 *73 *74 *75 *76 *77 *78 *79 *80 *81 *82 *83 *84 *85 *86 *87 *88 *89 *90 *91 *92 *93 *94 *95 *96 *97 *98 *99 *100 *101 *102 *103 *104 *105 *106 *107 *108 *109 *110 *111 *112 *113 *114 *115 *116 *117 *118 *119 *120 *121 *122 *123 *124 *125 *126 *127 *128 *129 *130 *131 *132 *133 *134 *135 *136 *137 *138 *139 *140 *141 *142 *143 *144 *145 *146 *147 *148 *149 *150 *151 *152 *153 *154 *155 *156 *157 *158 *159 *160 *161 *162 *163 *164 *165 *166 *167 *168 *169 *170 *171 *172 *173 *174 *175 *176 *177 *178 *179 *180 *181 *182 *183 *184 *185 *186 *187 *188 *189 *190 *191 *192 *193 *194 *195 *196 *197 *198 *199 *200 *201 *202 *203 *204 *205 *206 *207 *208 *209 *210 *211 *212 *213 *214 *215 *216 *217 *218 *219 *220 *221 *222 *223 *224 *225 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Manufacturing Network Planning and Execution

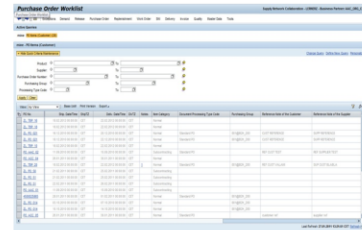
SAP SNC 7.02 Usability & Functional Enhancements

Solution Enhancements

- Added fields on various screens to provide additional references for the end user
- FTR Enhancements
- Interface enhancements

Key Benefits

- Usability enhancements address general user complaints to further help our customers to drive the adoption of SAP SNC in their supply base by making the interaction with the system easier and more intuitive
- Process round ups



Essentials

- 1) Additional fields in PO Details screens, PO Worklist, Overview and History
- 2) Purchasing group made available in Supplier view + Release Processing
- 3) Extend upload capabilities for ASN to include carrier ID and Bill of Lading
- 4) Enhance PO & RO & Payment Advice XML interface

PLANNED INNOVATIONS

Invoice -> add Bank Check No.

Release Processing → Purchase Order Group

XML Interface → Payment Advice + Replenishment Order + Purchase Order enhanced

SNI Details → Product description

Enhanced PO Collaboration Web screens:

Customer's Purchasing group

Order type

Customer reference

Supplier reference

Component requirement date

Purchase Order Work list enhanced

New selection parameter (*Purchasing Group* and *Order Type Code*)

New fields (*Purchasing Group* and *Order Type Code* customer reference and supplier reference)

New push button (*copy, add, delete components*)

Purchase order Details History enhanced (customer reference, supplier reference, order type code and component requirement date)

Purchase Order Item Group Web screen enhanced (Purchasing group selection parameter added)

PO XML Interface enhanced (customer reference, supplier reference, component requirement date)

New customizing to activate push buttons

Manufacturing Network Planning and Execution

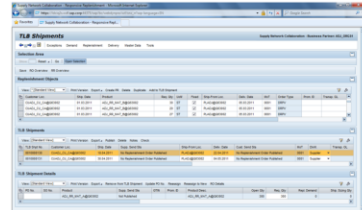
SAP SNC 7.02 Customer Collaboration Enhancements

Solution Enhancements

- Graphical Forecasting enablement
- TLB enhancements
- gATP refinements

Key Benefits

- Graphical capabilities in Forecast UI enables the planner to view & interpret the data and hence analyze the trends better
- Ability for the planner to be able to create multi-stop, multi-pick-up and cross-dock orders on TLB UI.
- Aligning the shift in demand of product in a constrained supply situation.



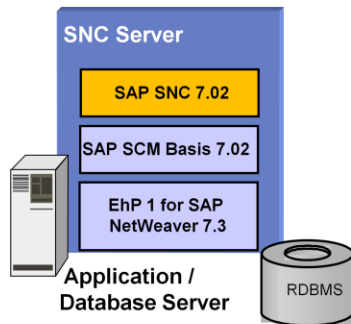
Essentials

- 1) Graphical capabilities in forecasting UIs
- 2) Manual order creation support for multi-stop, multi-pick up & cross dock orders on TLB UI
- 3) Demand horizon taken into account while creating new replenishments with constrained supply

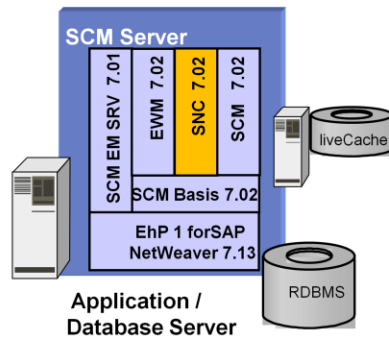
PLANNED INNOVATIONS

SAP SCM 7.0 Architecture – SNC Deployment

SAP SNC as Add-on to NW



SAP SNC as part of SCM



Pros

- Less support package implication
- Smaller system and hardware requirements

Cons

- No supported upgrade path to a full SCM server
- No full functionality

Pros

- It is possible to use other SCM components on same instance
- Mandatory for some functionalities (i.e. extended planning features)
- Supported Upgrade from a existing SAP ICH/SNC 5.1/5.0 / 4.1

* For details please refer to the SNC 7.0 Master Guide

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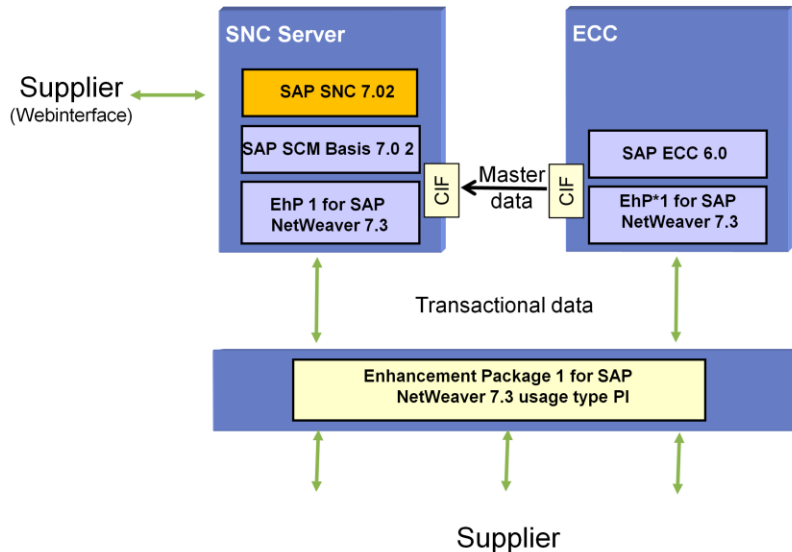
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- SAP SNC as part of SCM (Upgrade from SAP SCM 5.1/5.0/4.1 to SCM 7.0 for ICH costumers)
- SAP SNC standalone perhaps for new customers (depending on the business processes)
- SAP note 1033723 describes the installation of the SNC Add-On to SAP NetWeaver 7.0 (transaction SAINT)
- SAP SNC can be integrated with SAP EP 7.0 Including User Management
- SAP SNC allows integration with SAP cFolders (as part of the SCM/SNC instance) to make available the Product and Product Structure information with suppliers/customers

SNC 7.0 Integration

Example: SAP SNC as stand alone SNC for a Supplier Collaboration*



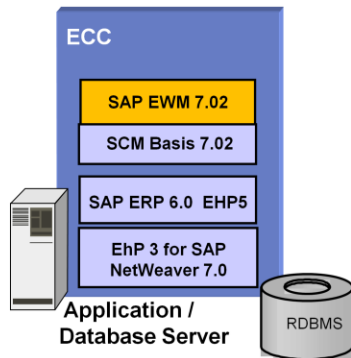
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- SAP SNC as part of SCM (Upgrade from SAP SCM 5.1/5.0/4.1 to SCM 7.0 for ICH costumers)
- SAP SNC standalone perhaps for new customers (depending on the business processes)
- SAP note 1033723 describes the installation of the SNC Add-On to SAP NetWeaver 7.0 (transaction SAINT)
- NetWeaver 7.1 usage type PI is the recommended PI for Business Suite 7.0 if **CE 7.11 is in place** – otherwise EHP*1 for NetWeaver 7.0 usage type PI

SAP SCM 7.0 Architecture – EWM Deployment



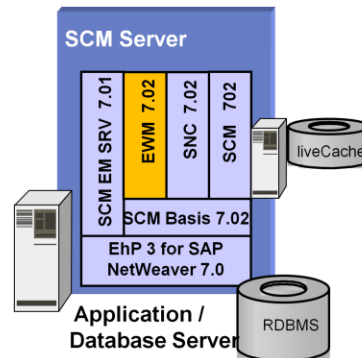
SAP EWM as Add-on to ERP 6.0

Advantages

- Less support package implication
- smaller system and hardware requirements

Risks

- No supported upgrade path to a full SCM server
- No full functionality*



SAP EWM as part of SCM

Advantages

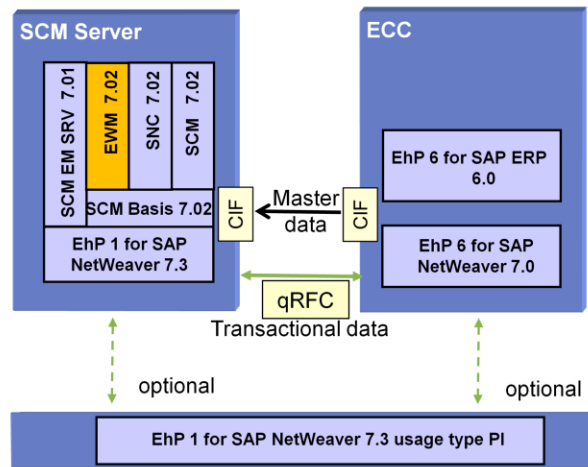
- It is possible to use the other SCM components on the instance
- Mandatory for some functionalities (i.e. central EWM)
- Supported Upgrade from a existing SAP SCM 5.1/ 5.0 / 4.1

- Deployment of EWM together with SCM 7.0 or as a Addon to ERP 6.0. Installation of EWM is recommended to be on a separate server to ensure most efficient performance.
- EWM communicates back to the Central ERP through RFC technology. For releases lower ERP 6.0 ALE/IDOC technology will be used too.

SAP note 1033722 describes the installation of the EWM Add-On to ERP 6.0 (transaction SAINT)

* There are some functional limitations concerning the capabilities to connect several different ERP logical systems to this EWM which is deployed in the ERP instance . On the other hand this option allowed lower TCO advantages in term of NetWeaver administration and allowing the same user access to ERP and EWM transactions without leaving the system (and without having a portal in place)

EWM 7.0 as Part of SCM 7.0*, Integration



* For details please refer to the EWM 7.0 Master Guide

With backend releases <= SAP ERP 2004, the SAP R/3 Plug-In 2004.1 >= SP10 is used for

- EWM master data integration

SAP ERP 6.0 (ERP 2005) and subsequent releases will contain all the interfaces that so far have been contained in the SAP R/3 Plug-In.

With all supported backend releases, NetWeaver 7.0 Usage Type PI >= 7.0 is used for

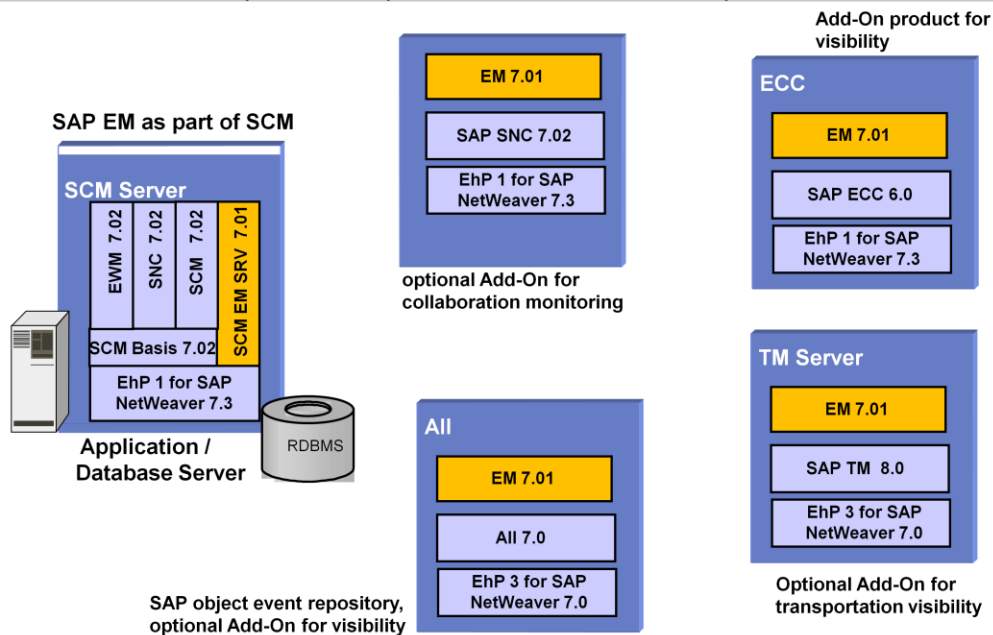
- EWM integration (optionally)

With backend release SAP ERP 6.0, a *qRFC based interface* (with lower releases, an *IDoc based interface*) is available for

- EWM transactional data integration

SAP SCM 7.0 Architecture - EM Deployment

SAP EM 7.0 is a separate component → install where required



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With the new release SAP EM is available for different solutions:

- **SAP SCM (Supply Chain Management) 7.0:** This variant is appropriate when enhanced planning functionality from SAP APO or other SCM capabilities are used or will be used sooner or later on the same server. Besides that, this option has to be used if a customer considers an upgrade from SAP SCM 5.1 (5.0, 4.1) to SAP SCM 7.0. This variant shall also be chosen when you expect a very high data volume and thus a standalone system is justified.
- **SAP ERP (Enterprise Resource Planning) 6.0, SAP SNC (Supplier Network Collaboration) 7.0, SAP TM (Transportation Management) 6.0, SAP All (Auto-ID Infrastructure) 7.0:** Is interesting for new customers who primarily want to use EM in combination with the respective application, and where no significant data volume is expected that would justify a standalone system. They can profit from the lean approach, which has less dependencies on other release cycles and a lower TCO.
- **SAP All 7.0:** This variant has to be used when setting up an SAP object event repository, in which SAP EM is the core component.
Can operate as standalone

Optional integration with
SAP NetWeaver BI.

Please keep in mind to consider this deployment options carefully, there is no way to switch from one option to the other later on. A new installation/implementation would be necessary!

Integration with other SAP component is usually done with the SAP Event Management application interface, which comes with any SAP application system (PlugIn Basis). The most important business objects are already technically-enabled.

SAP Demand Planning for Everyone

Duet - Seamless Access to SAP Through Microsoft Office



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- Demand planning is typically carried out by a small group of highly specialized individuals who manage the planning and forecasting process either for an entire organization or for large parts (e.g. divisions, product groups, regions) of it. As a result of this centralization, the planners are usually far removed from the demand itself.
- SAP Demand Planning (part of SAP SCM) is the perfect solution for these users, providing advanced capabilities for data analysis, multilevel planning, life-cycle management, forecasting and promotion planning. It supports collaboration and supply chain partnerships such as VMI and CPFR.
- Duet Demand Planning is used on top of a complete SAP demand planning scenario, and takes the planning process to the next level: users (e.g. sales managers) who are not specialized in the planning process but who have the best possible understanding of their customers' demand can enter this information via a simple interface, contributing greatly to the accuracy of the overall demand plan. Furthermore, they have an unprecedented view of the planning data as it relates to their area of responsibility.
- Duet Demand Planning also offers considerable advantages for the demand planner, who benefits from flexible complementary Excel-based functions such as the broad range of spreadsheet capabilities.

Agenda

SCM Enhancement Packages

- Concept

SCM Server Architecture

- General Overview
- New Developments in Enhancement Package 2
- Deployment Options

SCM Platforms and Sizing

SCM Installation and Update

- General Overview
- Installation
- Upgrade

Miscellaneous

SAP SCM 7.0 Platform Availability

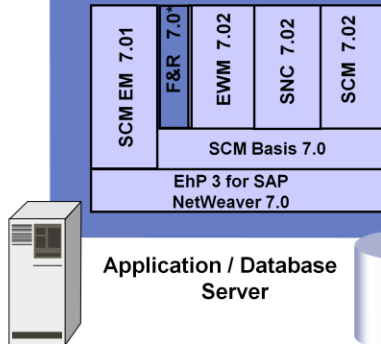
Platform Availability is Component Dependent (Rough Overview)

Presentation / UI layer



Presentation / UI layer

SCM Server 7.0



SAP liveCache



SAP liveCache (MaxDB)

SAP SCM Optimizer
Geocoding
IGS

SAP executables C/C++

SAP NetWeaver ABAP
application/database

* Please refer to the PAM for details and the SCM Masterguide

SAP SCM 7.0 Platform Availability

Detailed Information is Documented in the Product Availability Matrix

Find General and Release Information on SAP Software Product Versions.

The Product Availability Matrix (PAM) bundles technical and release planning information on SAP software product versions for quick reference. You find detailed information on their availability dates, maintenance end dates and upgrade paths, as well as technical release information (DB-platforms, JSE-platforms, operating systems etc.).

<http://service.sap.com/pam>

Have a look into the [PAM Basics presentation](#) to get started. General information about SAP's release strategy is available under [/releasestrategy](#). *

SAP SCM 7.0 is available for most of the used DB/OS combinations, client platforms, browsers, countries, languages, ...

* Longer maintenance until 2020, for details refer to the [releasestrategy](#)

SCM 7.0: Hardware Sizing

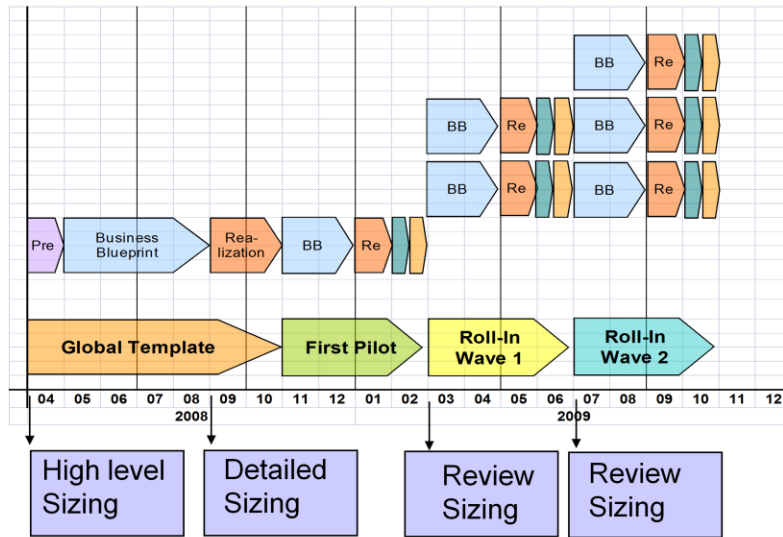
Sizing means determining the hardware requirements of an SAP System such as physical memory, CPU power, I/O capacity and network bandwidth. The size of the hardware and database is influenced by both business aspects and technological aspects. This means that the number of users using the various application components and the data load they put on the network must be taken into account.

With the help of SAP Standard Application Benchmark results at www.sap.com/benchmark, statements can be made as to CPU consumption and memory consumption of particular software components.

Your starting point: <http://service.sap.com/sizing>

SCM 7.0: Recommended Hardware Sizing Process

Involve the Hardware Partner



Sizing is an iterative process that continuously brings together customers, hardware vendors and SAP

SCM 7.0: Sizing With Quick Sizer

Initial Hardware Sizing to Support Your Business

The Quick Sizer is a Web-based tool designed to make the sizing of SAP Business Suite easier and faster. It has been developed by SAP in close cooperation with all platform partners and is free of cost.

With the Quick Sizer you can translate business requirements into technical requirements. Simply fill in the online questionnaire, an up-to-date survey that is based on business-oriented figures. The results you obtain can help you select an economically balanced system that matches your company's business goals. The Quick Sizer calculates CPU, disk, memory and I/O resource categories based on throughput numbers, and the number of users working with the different SAP Business Suite components in a hardware and database independent format. The purpose of the tool is to give customers and prospects an idea about the size of the system necessary to run the proposed workload. This is especially useful for initial budget planning.

<http://service.sap.com/quicksizer>

SCM 7.0: Sizing With Quick Sizer / Sizing Guidelines































Available SCM Application

The screenshot displays the SAP Quick Sizer tool interface. On the left is a 'Tree of Elements' sidebar with a search bar and a list of SAP Business Solutions, including SAP SCM with sub-items like Demand Planning, Supply & Prod. Planning, Order Fulfillment, Service Parts Planning, and SNC - Supplier Collaboration. The main area on the right is titled 'Project SCM GENERAL EXAMPLE' and contains several input fields: 'Workdays' (220), 'Status' (Without Inputs), 'Owner' (Customer), and 'Method' (All). Below this is a 'Project Data' section with fields for 'Customer no.' (188213), 'Created by' (D028885), 'Created on' (17.10.2011), 'Version date' (17.10.2011), 'Project Name' (SCM GENERAL EXA), 'Modified by', 'Modified on', and 'Version' (025). A 'New System / System Extension' section offers two radio buttons: 'New SAP Business Solution/Software Component' (selected) and 'SAP Business Solution/Software Component Extension'. Below this is a note about gross results and offsets. At the bottom are four expandable sections: 'Customer Data', 'Platform and Communication', 'System Availability', and 'Network Infrastructure', each with a checkbox.

Inside the Quick Sizer you will find some of the SCM application sizing guideline links.

The Quick sizer is based on SCM 5.0 (NW 7.0) measurements, the results are still valid for SCM 7.0x

SCM 7.0: Available SCM Application Sizing Guidelines

<ul style="list-style-type: none">Information Lifecycle Management<ul style="list-style-type: none">Hardware Sizing<ul style="list-style-type: none">Quick Sizer ToolSizing Guidelines<ul style="list-style-type: none">Solutions & Platform - New Structure<ul style="list-style-type: none">SAP Business Suite<ul style="list-style-type: none">SAP CRMSAP ERPSAP SCMSAP SRMSAP PLMSAP BusinessObjectsIndustry SolutionsSAP NetWeaverOthersGeneral Sizing ProceduresTraining & Education	SAP SCM		Feedback
	Dateityp	Titel ▲	
	  	Optimization Questionnaire for PP/DS	
	  	Optimization Questionnaire for SNP	
	  	Optimization Questionnaire for TP/VS	
	  	Sizing SAP Auto-ID Infrastructure (RFID)	
	  	Sizing SAP Event Management	
	  	Sizing SAP Object Event Repository	
	  	Sizing SAP SNC - PO Collaboration	
	  	Sizing SAP SNC - Release Processing	
	  	Sizing SAP SNC - Responsive Replenishment	
	  	Sizing SAP SNC - Supplier Managed Inventory	

Agenda

SCM Enhancement Packages

- Concept

SCM Server Architecture

- General Overview
- New Developments in Enhancement Package 2
- Deployment Options

SCM Platforms and Sizing

SCM Installation and Update

- **General Overview**
- **Installation**
- **Upgrade**

Miscellaneous

Software Logistics Toolset 1.0

New

An independent delivery channel for **regular software logistics tool improvements** has been established with the **SL Toolset 1.0** targeting reduced total cost of ownership for current customer landscape.

Most prominent example of already available improvements is the **Software Update Manager 1.0** which evolved from SAP Enhancement Package installation tool and upgrade tools – now **required for SAP Business Suite i2011 customers**.

For more information about available SL Toolset 1.0 improvements see:

- [Central Release Note for Software Logistics Toolset 1.0 – 1563579](#)
- **SAP Service Marketplace** quicklink [~sltoolset](#)
- SL Toolset **knowledge transfer material** when available



SAP Enhancement Package (Incl. SP-Stack) Installation Tools

Scenario	Tool Sequence
New system installation	1. SAPInst 2. Maintenance Optimizer 3. SAPehpi / SUM* alternatively: SPAM (SP-Stacks) or SAINT (for additional technical usages)
Upgrade (e.g. from SAP SCM 4.1, SCM 5.0, SCM 2007)	1. Maintenance Optimizer 2. SAPup (ABAP) / SAPJup (Java) / SUM*
Update (EHP Installation) (e.g. of existing SCM 7.0)	1. Maintenance Optimizer 2. SAPehpi / SUM*

* **Software Update Manager: replaces SAPehpi/SAPup/SAPJup in certain areas, for example updating/upgrading to SAP Business Suite 7 Innovations 2011**

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New system installation

1. **SAPInst** – installation of a new system including tech. usage “Central Applications”
2. **Maintenance Optimizer** – create stack.xml file and download required files
3. **SAPehpi** – installation of latest SP-Stack and optionally additional technical usages
 alternative: **SPAM** (for SP-Stacks only) or **SAINT** (for additional technical usages)

Upgrade

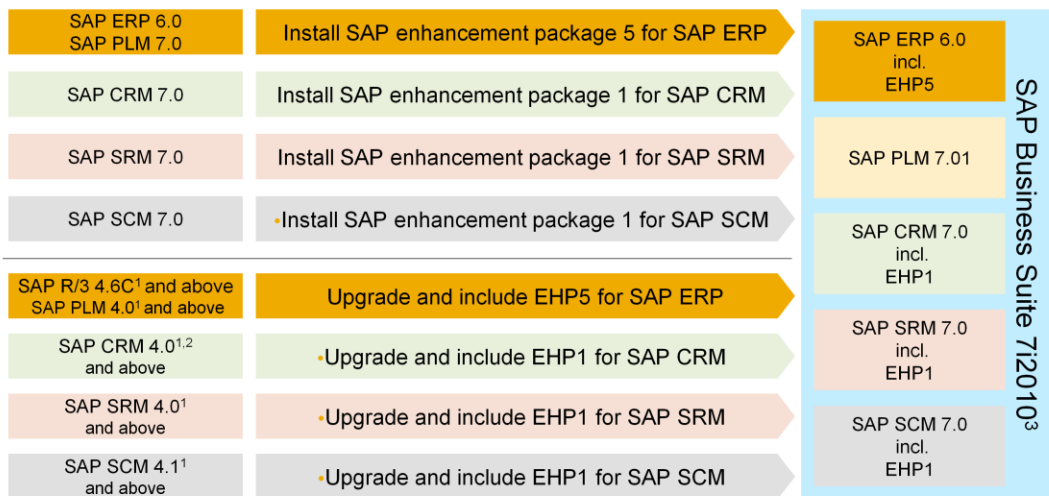
1. **Maintenance Optimizer** – create stack.xml file and download required files
2. **SAPup** (ABAP) / **SAPJup** (Java) – technical usage “Central Applications” is part of upgrade export, additional technical usages and SPs can be included into upgrade

Update

1. **Maintenance Optimizer** – create stack.xml file and download required files
2. **SAPehpi** – installation of enhancement package including latest SP-Stack and selected technical usages

SAP Business Suite 7 Innovations 2010

How to Get There ...



¹ Direct upgrade from these source releases to the go-to releases of SAP Business Suite 7 Innovations 2011 is supported by SAP except for the Java part.

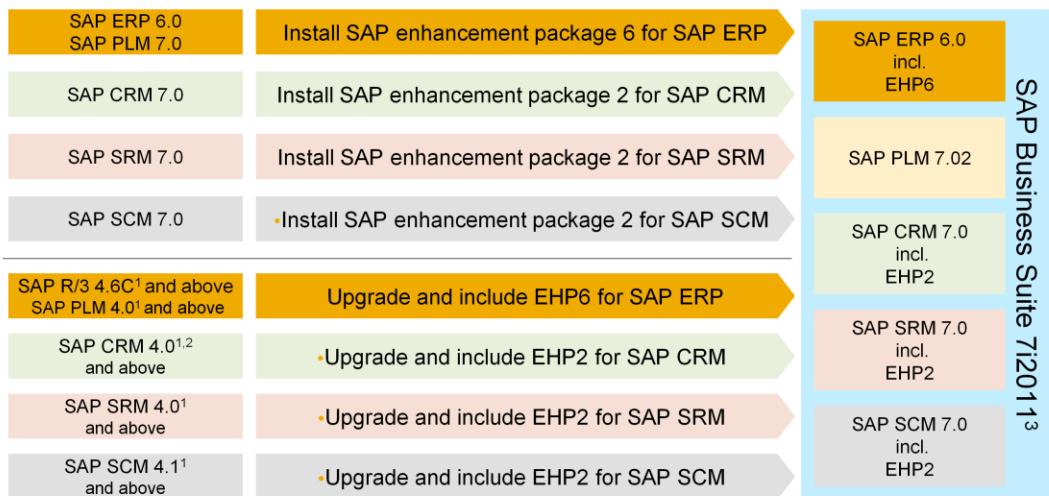
² If you upgrade from SAP CRM 4.0 or 5.0 to SAP CRM 7.0, customer-specific UIs (including the underlying UI-related coding) have to be migrated separately.

³ Most industry and supplementary applications are shipped with the SAP Business Suite applications and are included in the respective upgrade. For the versions of industry and supplementary applications that are part of SAP Business Suite 7 Innovations 2011, but not shipped as part of SAP ERP, SAP PLM, SAP SCM, SAP SRM, or SAP CRM refer to "SAP Release Strategy for Large Enterprises" on <http://service.sap.com/releasestrategy>.

SAP Business Suite 7 Innovations 2011

How to Get There ...

In Ramp-Up*
(details see documentation)



* Update/upgrade of Dual Stack systems and upgrade of NetWeaver 7.3 systems currently not supported. For details please see product documentation.

¹ Direct upgrade from these source releases to the go-to releases of SAP Business Suite 7 Innovations 2011 is supported by SAP except for the Java part.

² If you upgrade from SAP CRM 4.0 or 5.0 to SAP CRM 7.0, customer-specific UIs (including the underlying UI-related coding) have to be migrated separately.

³ Most industry and supplementary applications are shipped with the SAP Business Suite applications and are included in the respective upgrade. For the versions of industry and supplementary applications that are part of SAP Business Suite 7 Innovations 2011, but not shipped as part of SAP ERP, SAP PLM, SAP SCM, SAP SRM, or SAP CRM refer to "SAP Release Strategy for Large Enterprises" on <http://service.sap.com/releasesstrategy>.

Implementation of SCM 7.0 Enhancement Package 2

▶ SAP PLM

▼ SAP SCM

▶ SAP Event Management

▶ SAP EWM

▼ SAP SCM Server

• **Using SAP enhancement package 2 for SAP SCM Server 7.0**

• Using SAP enhancement package 1 for SAP SCM Server 7.0

• Using SAP SCM 7.0 Server

• Using SAP SCM 5.1 Server

• Using SAP SCM 5.0 Server

• Using SAP SCM 4.1 Server

• Using SAP SCM 4.0 Server

▶ SAP SNC

▶ SAP Auto-ID Infrastructure

▶ SAP GBT

▶ SAP Sourcing

▶ SAP SRM

▶ SAP Supplier Lifecycle Management

▶ SAP TM

▶ SAP Web Channel Experience Management

▶ On-Demand Solutions from SAP

▶ SAP NetWeaver

▶ SAP In-Memory Computing

▶ SAP Solution Extensions

▶ SAP Components

Using SAP enhancement package 2 for SAP SCM Server 7.0

Feedback | Abonnieren | Zu Favoriten hinzufügen

USING SAP ENHANCEMENT PACKAGE 2 FOR SAP SCM SERVER 7.0

INSTALLATION AND UPGRADE INFORMATION

In this section, you can find comprehensive information for the implementation (installation /upgrade) of SAP enhancement package 2 for SAP SCM 7.0.

Master Guide

The Master Guide provides important information about the installation planning for SAP enhancement package 2 for SAP SCM 7.0 processes. It gives an overview about the installation documents that are available for the installation of an SAP enhancement package 2 for SAP SCM 7.0 Server component.

Security Guide

The Security Guide provides information about the security of SAP SCM. It contains important information and links to all other documents that are required to ensure the security within SAP SCM.
[Quality Inspection Engine Security Guide](#)

Application Operations Guide

The Application Operations Guide provides the following information:

- Which tasks must be considered and executed to operate the SAP Solution in the most efficient and effective way.
- Recommendations on how to ensure a high performance solution with maximum possible reliability.

Technical Guidelines (SAP NetWeaver)

Please refer to [Installation & Implementation Documentation Center – SAP NetWeaver 7.0 \(2004q\)](#) for further information.

Installation Guides

The Installation Guides describe the technical implementation of an SAP component, taking into account the combinations of operating systems and databases. They do not describe any business-related configuration.
To sort, click on the appropriate column header. You can sort in ascending or descending order by clicking on the orange arrow.

Planning Guide – SAP Business Suite Landscape Implementation

This document provides an overview of SAP Business Suite and its possible system landscapes. It is a technical planning document aimed above all at technical consultants as well as system administrators and software architects who want to plan and build a system landscape.
[Planning Guide – SAP Business Suite \(German\)](#)

Please use **Adobe Acrobat Reader** version 4.0 or higher. With older versions of Acrobat Reader, problems can occur when displaying or printing newer documents.
You can download the latest version of Acrobat Reader from the [Adobe](#) Website.

You will find the relevant documentation guides
in <http://service.sap.com/instguides>

Implementation of SCM 7.0 Enhancement Package 2

Start With the Required Business Process

- The *SAP SCM Master Guide* provides a central starting point for the technical implementation of SAP SCM.
- To facilitate both the implementation and upgrade process, all information is grouped by business processes and business process groups.
- You can choose from several SAP SCM generic business processes and find all the information that is relevant for the technical implementation of a specific business process in that section.
- The *SAP SCM Master Guide* for SCM 7.0 can be downloaded from the SAP SCM 7.0 section at <http://service.sap.com/instguides>. Here you will find comprehensive technical documentation (i.e. installation and upgrade guides)

Installation of SCM 7.0 Enhancement Package 2

The Business Drives the Technical Implementation



Define Business Aspects

- Create **Business Blueprint** for Innovation
- Leverage **ASAP** methodology
- Select **SOA Services** from ES workplace



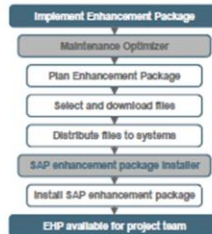
Make Technical Infrastructure Available

Map business functions and technical usage

- Which are '**technical usages**' are relevant
- What are the prerequisites to check before installing?

Software implementation

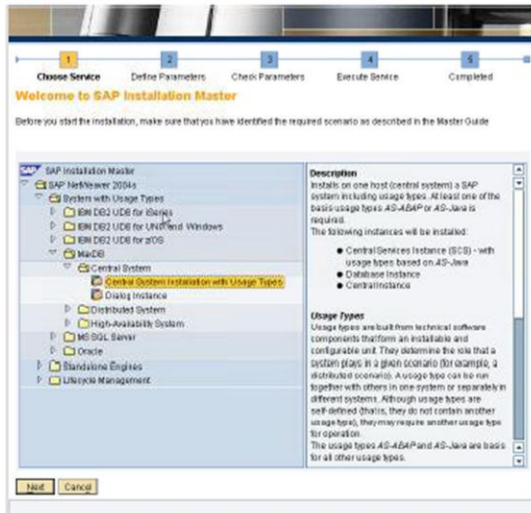
- Installation and activation of enhancement package with **EHP-installer** and **Switch Framework**



Business Blueprint and Technical Preparation Activities

Installation of SCM 7.0 Enhancement Package 2

Execute the Installation With SAPInst



- Implement a new landscape or add a scenario to your system landscape
- All kind of implementation services offered – including system copy
- Implementation process **simplified, accelerated, manual steps minimized**

Update/Upgrade of SCM 7.0 Enhancement Package 2

Check the Existence of Update/Upgrade Dependencies

Typically, SAP systems like SAP ERP, SAP CRM, SAP SCM or SAP SRM are part of an SAP system landscape that contains various interconnected systems. Business processes can run across the various systems. When planning an upgrade of the systems in your landscape, you want to know whether this has an impact on other systems in your landscape, that is, whether the upgrade requires changes to other systems in the landscape as well.

The **upgrade dependency analyzer** provides this information.

Direct link: <http://service.sap.com/uda>

Update/Upgrade of SCM 7.0 Enhancement Package 2

Check the Existence of Update/Upgrade Dependencies, Example

Upgrade

Upgrade Newsletter

Upgrade Services

Upgrade Tools

Upgrade Dependency Analyzer

FAQ

User Documentation

SAP Upgrade Roadmap

Solution Browser Tool

Solution Manager Pulse Check

Application-Specific Information

Upgrade Paths

Upgrade Experience Database

Upgrade FAQ

Media Library

Quick Link-Information

Rufen Sie diesen Themenbereich direkt auf über <http://service.sap.com/upgrade>

Upgrade Dependency Analyzer

Feedback | Dok. Info | Zu Favoriten hinzufügen

Target Component

Select the component you wish to upgrade to.

Product: SAP SCM ENHANCE PACKAGE

Product Version: EHP1 FOR SAP SCM 7.0

Product Instance: SCM SERVER

Or search by text: Go

Existing Component

Check whether an upgrade to the above component has an impact on one or more components in your existing SAP landscape.

Product: SAP ECC

Product Version: SAP ECC 5.0

Product Instance: SAP ECC SERVER

Or search by text: Go

Result

No known upgrade dependencies, independent upgrade possible

Product Instance Details

SCM Server

Product Instance SCM SERVER contains SCM SERVER 7.01 and is part of [SAP SCM](#)

For more detailed technical and release planning information click [here](#).

Person Responsible for Product Instance D031750

Visible For: Customers (S Users) + Partners + SAP In

Page 1 of 1

Product Instance Details

SAP ECC Server

Product Instance SAP ECC SERVER is part of [SAP ERP 2004](#).

For more detailed technical and release planning information click [here](#).

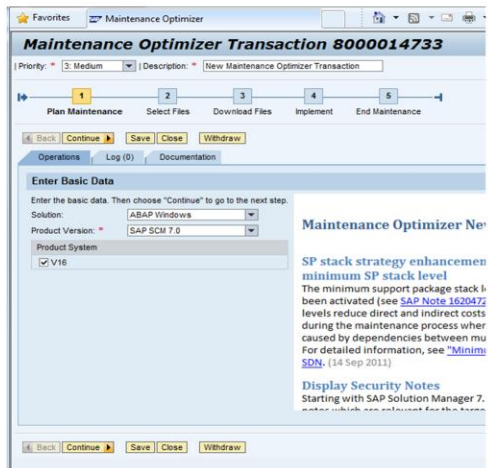
Person Responsible for Product Instance D002632

Visible For: Customers (S Users) + Partners + SAP In

Page 1 of 1

Update/Upgrade of SCM 7.0 Enhancement Package 2

Start the Update/Upgrade With SAP Solution Manager



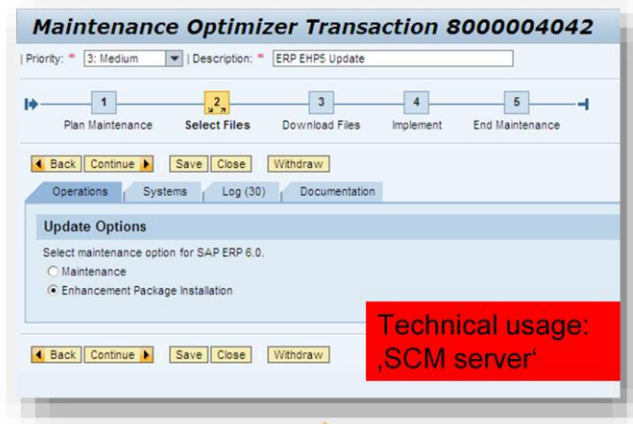
After the SAP Solution Manager is updated according to the standard procedure you have to create a new Maintenance Optimizer Transaction for the SAP SCM updates.

Follow the instructions via wizzard and define the stack and technical usage (SCM server have only one technical usage).

Maintenance Optimizer (MOPZ)

Plan, Manage and Carry out all Maintenance Activities

- **Central point of access** in SAP Solution Manager for all maintenance-related activities to manage the installation of Support Packages, Support Package stacks and enhancement packages (EHPs) for the SAP Business Suite and to support upgrades.
- Maintenance Optimizer gives an **overview of all maintenance activities** in your system landscape
- Maintenance Optimizer **leads you** through the planning, download and implementation of the above mentioned maintenance activities.



**Guided Procedure in a
Maintenance Optimizer Transaction**

If you use the SAP Solution Manager Maintenance Optimizer - as strongly recommended and already required for downloading Support Packages in general - you only need the name of the Technical Usage to install all needed software components. Based on that information, the SAP Solution Manager Maintenance Optimizer calculates the needed software components and Support Packages automatically. Create a new maintenance transaction for updating your system with SAP enhancement packages for SAP ERP 6.0. A guided procedure leads you through the preparation process for updating your systems. Select all systems that are affected by the application of the SAP enhancement package. In the next step of the guided procedure, you select the Technical Usages you want to apply to your systems. **In case of a SCM server upgrade you have to select 'SCM server'.** The Solution Manager Maintenance Optimizer automatically calculates all needed Support Packages and new software component versions needed for installing the previously selected Technical Usages. As a result, the Solution Manager Maintenance Optimizer creates the Stack-XML file that can be read by the installation tools to create a valid import queue. You can find further information about the Solution Manager Maintenance Optimizer at service.sap.com/solman-mopz, detailed documentation at help.sap.com > SAP Solution Manager > (select your preferred language) in the "Change Management" section.

Update/Upgrade of SCM 7.0 Enhancement Package 2

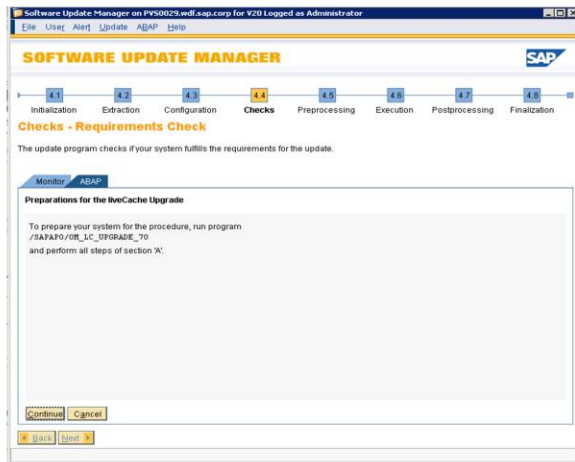
Execute the Update/Upgrade With SAP SUM (Software Update Manager)



After completing of the MOPZ transaction start the SAP SCM update with the SUM.

Update/Upgrade of SCM 7.0 Enhancement Package 2

The SAP SUM Have the Same Look and Feel as the SAPEhPi / SAPup



After completing of the MOPZ transaction start the SAP SCM update with the SUM.

Follow the wizzard based instructions and update the liveCache and Optimizer.

Agenda

SCM Enhancement Packages

- Concept

SCM Server Architecture

- General Overview
- New Developments in Enhancement Package 2
- Deployment Options

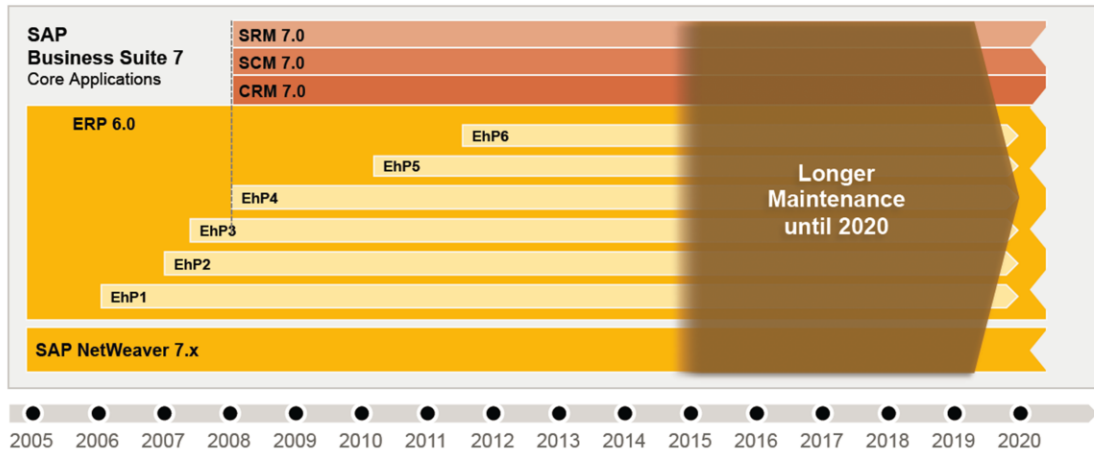
SCM Platforms and Sizing

SCM Installation and Update

- General Overview
- Installation
- Upgrade

Miscellaneous

Maintenance for SAP Business Suite*



* The SAP Business Suite 7 includes the core applications (SAP ERP 6.0, SAP PLM 7.0, SAP CRM 7.0, SAP SCM 7.0, SAP SRM 7.0), supplementary applications and industry applications.

Enhancement Package Information Center

General Information

Requirements

Central access to EHP related information:

- EHP strategy
- Concepts and methodology of EHPs
- Discover, evaluate and install new functionality

Access here:

- <http://service.sap.com/erp-ehp>
- <http://service.sap.com/crm-ehp>
- <http://service.sap.com/srm-ehp>
- <http://service.sap.com/scm-ehp>

example: /erp-ehp

SAP ENHANCEMENT PACKAGES FOR SAP ERP

SINGLE POINT OF ACCESS FOR ALL ERP ENHANCEMENT PACKAGE RELATED INFORMATION

As a part of SAP's ongoing commitment to delivering business innovation to customers without disruption, SAP releases Enhancement Packages for SAP ERP 6.0 on a regular basis. Enhancement Packages are cumulative, which means that each new Enhancement Package includes as well as all innovations delivered with prior packages.

Concept and Strategy of Enhancement Packages

SAP introduced the **Enhancement Package strategy for SAP ERP** as a means to the new customers manage and deploy new functionality. Customers can selectively implement these software innovations from SAP and integrate the software into their business demand. As a result, customers can realize the impact of software updates and bring new functionality online faster through shortened testing cycles.

An SAP Enhancement Package provides new capabilities that are either relevant for all industries or targeting particular industries. After activation of the underlying business function these enhancements are ready to be customized and used.

Along with an Enhancement Package SAP delivers **Enterprise Service Bundles** that provide customers with a standardized approach to develop their own differentiating business scenarios and integrate with their SAP and non-SAP solutions. Check out the **2010 Health Care SAP Enterprise Service Bundle** and visit the **ESB page** in ESH for more details.

Enhancement Package Lifecycle

See more about **Enhancement Package Lifecycle** which is the first of its kind in the industry, offering customers greater long-term value and an easier methodology for managing software innovations.

Discover Evaluate Install

SAP Services to Discover Business Functionality

- **Business Function Explorer**
For SAP ERP provides you with a tailored recommendation which functionalities from the SAP Enhancement Packages for SAP ERP will be relevant for your business. [Get help](#) [Your request for free](#)
- **Accelerated Innovation Development Solutions**
provide access to SAP Solution Architect to evaluate the innovation capabilities of the latest SAP Enhancement Package and how it may be deployed for your business process requirements (available for SAP Enterprise Support Customers).

SAP Tools to Discover Business Functionality

- **Solution Browser Tool**
Information tool to identify new features and functions with focus on SAP ERP.

NEW FUNCTIONALITY OF ENHANCEMENT PACKAGE 5 FOR SAP ERP 6.0

General availability of Enhancement Package 5 has been announced in May 2011 at SAPPHIRE in Orlando

- Overview about the concept: [Introducing SAP Enhancement Package 5 for SAP ERP](#)
- All relevant announcements regarding the major requirements
- Before on the implementation phase read: [How to install SAP Enhancement Package 5 for SAP ERP 6.0](#)
- Master Guide SAP Enhancement Package 5 for SAP ERP

Information procedure of SAP Enhancement Package 5 for SAP ERP: [Techniques Facts](#)

RELATED TOPICS

- [Introduction SAP Enhancement Packages for SAP ERP 6.0](#)
- [ERP Solution Map](#)
- [Related Business Tool](#)
- [ERP ESH Installation Guide](#)

RAMP-UP

- [SAP Learning Roadmap](#)
- [SAP Learning Roadmap Transfer \(SRCT\)](#)
- [Introduction SAP ESH Contracts for SAP ERP](#)
- [Online Academy for SAP ERP](#)

GLOBAL CONSULTING SERVICES

- [Global Consulting Service Portfolio for SAP ERP](#)

ENHANCEMENT PACKAGE COMPONENTS

- [ERP Front-End SAP Enhancement Packages](#)
- [ERP Back-End SAP Enhancement Packages](#)
- [ERP SAP Enhancement Packages \(Internal\)](#)

IMPLEMENTING SAP ENHANCEMENT PACKAGES

- [SAP Enhancement Package 5 for SAP ERP](#)

This book offers project guidelines for the implementation of SAP Enhancement Packages on the basis of SAP ERP 6.0.

SCM 7.0 Multiclient Compliance

SAP SCM 7.0 is Multiclient Compliance per Design

Due to BW client independent design, some multiclient restrictions apply for Demand Planning (DP/SNP) based functions:

SCM 7.0 has an embedded BW 7.0 which enables you to work with multiple clients within APO DP without further modifications. However, BW restrictions still apply. For details: SAP note 522569

An external BW cannot recognize that SCM 7.0 uses BW only for Demand Planning.

To integrate several SCM 7.0 clients with several external BW "clients" there are some workarounds for e.g. EM

SCM is based on SAP NetWeaver BI 7.0. This enables DP to work with multiple clients without the need for ABAP modifications (see note

522569). Please note the following:

- o The BW client must be defined at the beginning of the implementation and can not be changed afterwards.
- o Client copies should be avoided.
- o All BW-objects (like SAP BW InfoCubes, InfoObjects, InfoSources and Data Source Systems) are client-independent. The BW-Administrator Workbench can only be accessed in the BW-client. If InfoObjects or InfoCubes are created in a non-BW-client, they have to be activated in the BW-client. The same is true for Planning Object Structures and Aggregates; the generated InfoCube/Aggregate also has to be activated in the BW-client. Data Sources have to be created in the system from which the data should be extracted. InfoSources have to be created in the BW client.
- o Planning Object Structure names must be unique across clients.
- o Planning Areas and Planning Object Structures can only be accessed in the client where they were created.
- o Only one global logical BW data source system can be defined as only for the "SAP BW client". Data loads from an SAP R/3 system or from files can only be performed from "SAP BW client".

SCM 7.0 Enhancement Package 2

liveCache Release 7.9

In progress
Ivan.sesar@sap.com

<http://www.sdn.sap.com/irj/bpx/livecache>

Further Information

- SAP Installation and Upgrade Guides
 - <http://service.sap.com/instguides>
- SAP Upgrade Dependency Analyzer
 - <http://service.sap.com/uda>
 - SAP notes
 - <http://service.sap.com/notes>
- Product Availability Matrix
 - <http://service.sap.com/pam>
- Best Practice SCM
 - <http://service.sap.com/bp-scm>
- SAP Master and Solution Guides
 - <http://service.sap.com/instguides>
- SAP Library (Online Help) for SAP
 - <http://help.sap.com/>
- SAP Rampup Knowledge Transfer
 - <http://service.sap.com/rkt-scm>
- Upgrade Info
 - <http://service.sap.com/upgrade>

Questions? Remarks?
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