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

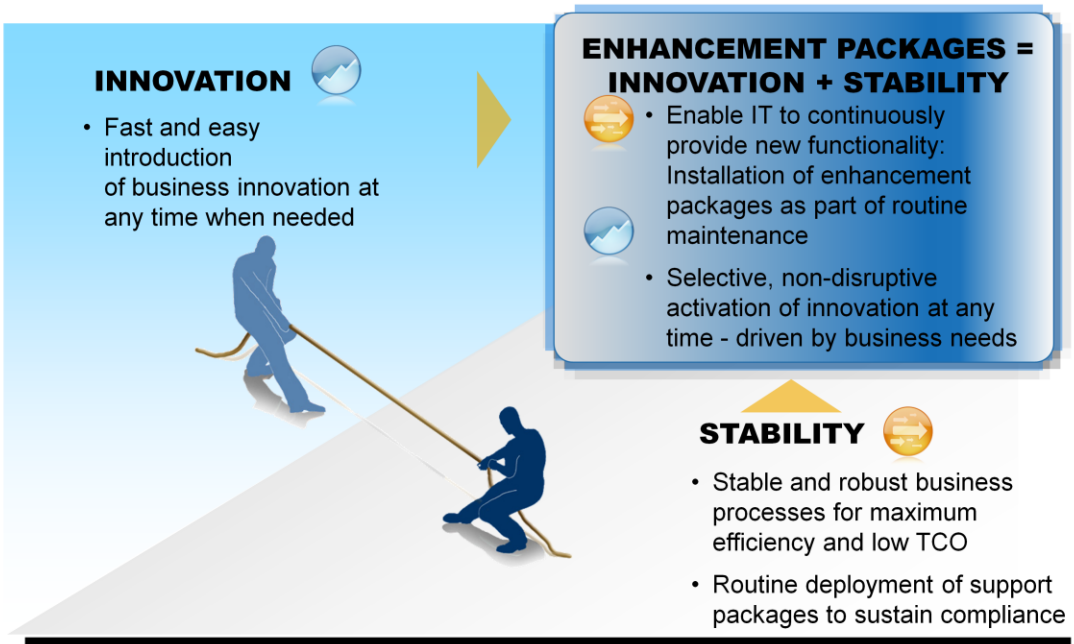
- General Overview
- Installation
- Upgrade

Miscellaneous

© 2011 SAP AG. All rights reserved.

Enhancement Packages = Innovation + Stability

Enhancement Packages Reduce Conflict Between Stability and Innovation

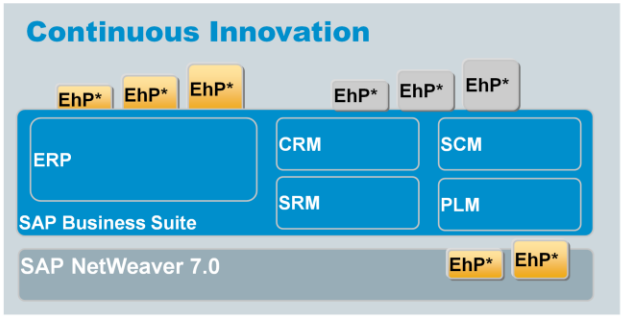


© 2011 SAP AG. All rights reserved.

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



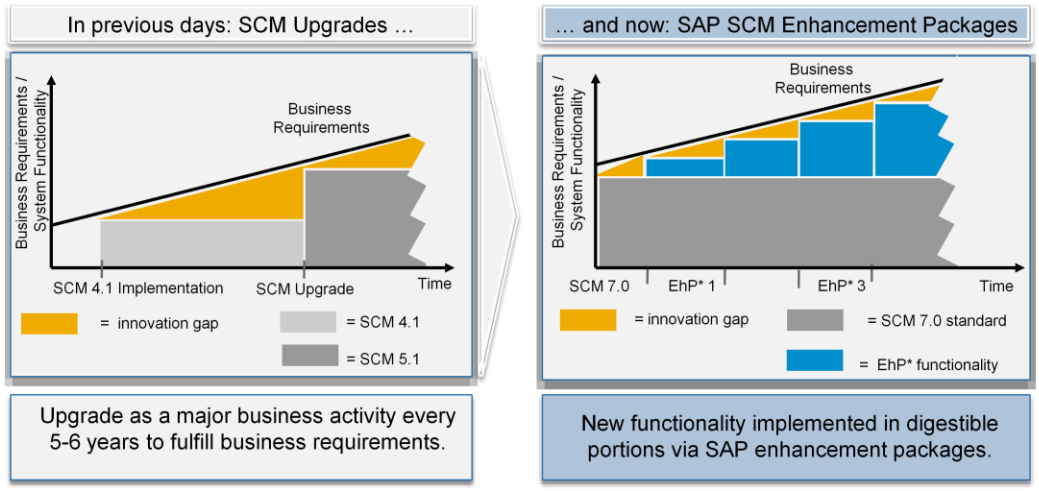
SAP Business will be shipped as the base release that will remain stable for the following years. New functionality will be shipped as optional enhancement packages that can be used by customers selectively if required for their business. The enhancement packages introduce new functions on top of the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

© 2011 SAP AG. All rights reserved.

SAP SCM 7.0 – Part of the Business Suite 7.0

The Stable Core Release for the Next Years II



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

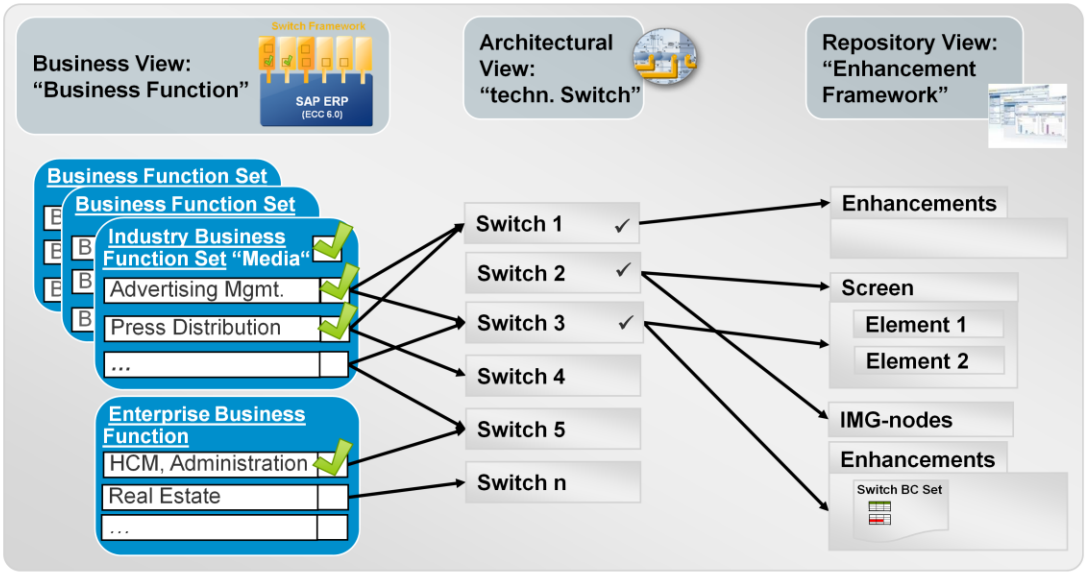
New functionality implemented in digestible portions via SAP enhancement packages.

Business Driven Enhancements by CHOICE:

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

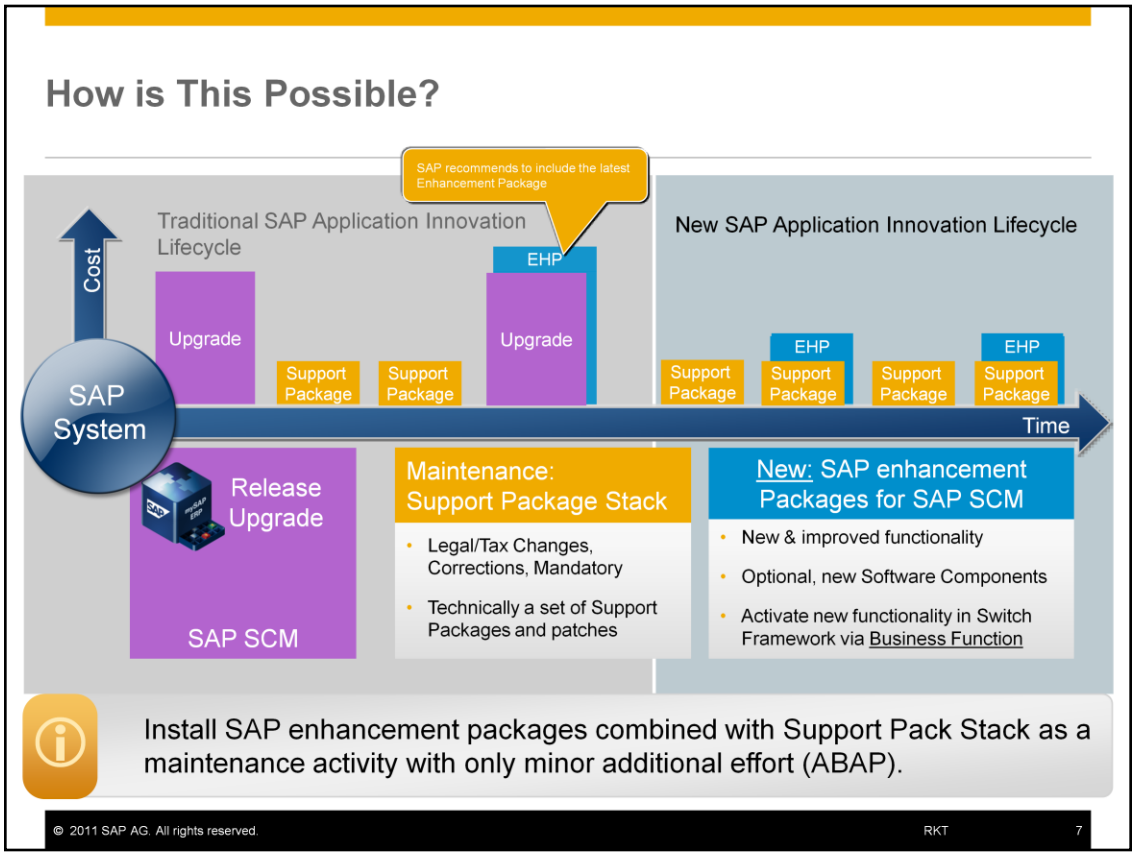
© 2011 SAP AG. All rights reserved.

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



A switch controls the visibility of other repository objects.

© 2011 SAP AG. All rights reserved.



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.

Agenda

SCM Enhancement Packages
- Concept

SCM Server Architecture
- **General Overview**
- **New Developments in Enhancement Package 2**
- **Deployment Options**

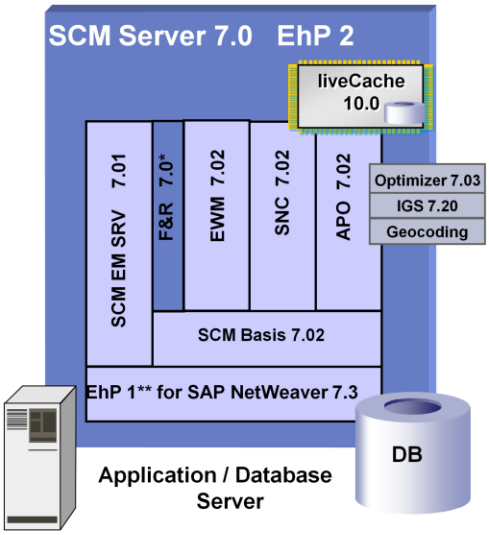
SCM Platforms and Sizing

SCM Installation and Update
- General Overview
- Installation
- Upgrade

Miscellaneous

© 2011 SAP AG. All rights reserved.

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

© 2011 SAP AG. All rights reserved.

- 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

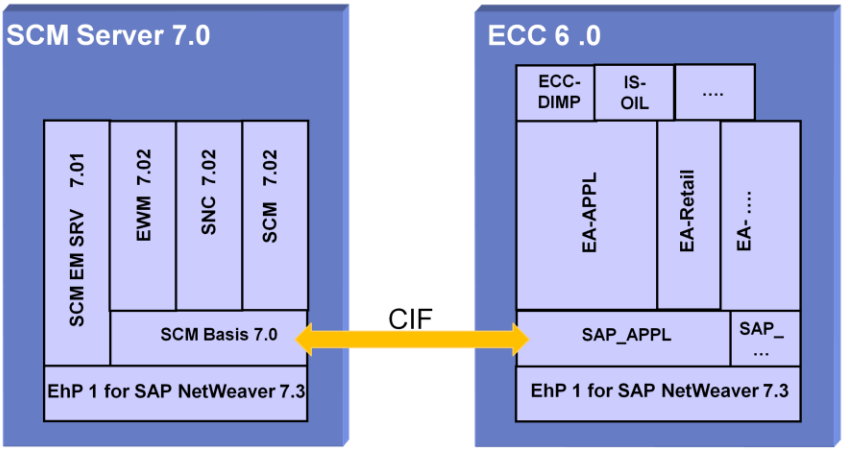
SAPGUI 7.20
....

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
SCEMSRV	7.01	SCEMSRV
SCMEWM	7.02	Extended Warehouse Management
QIE	200	Quality Inspection Engine

* Incomplete extraction of the SCM component list

© 2011 SAP AG. All rights reserved.

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

© 2011 SAP AG. All rights reserved.

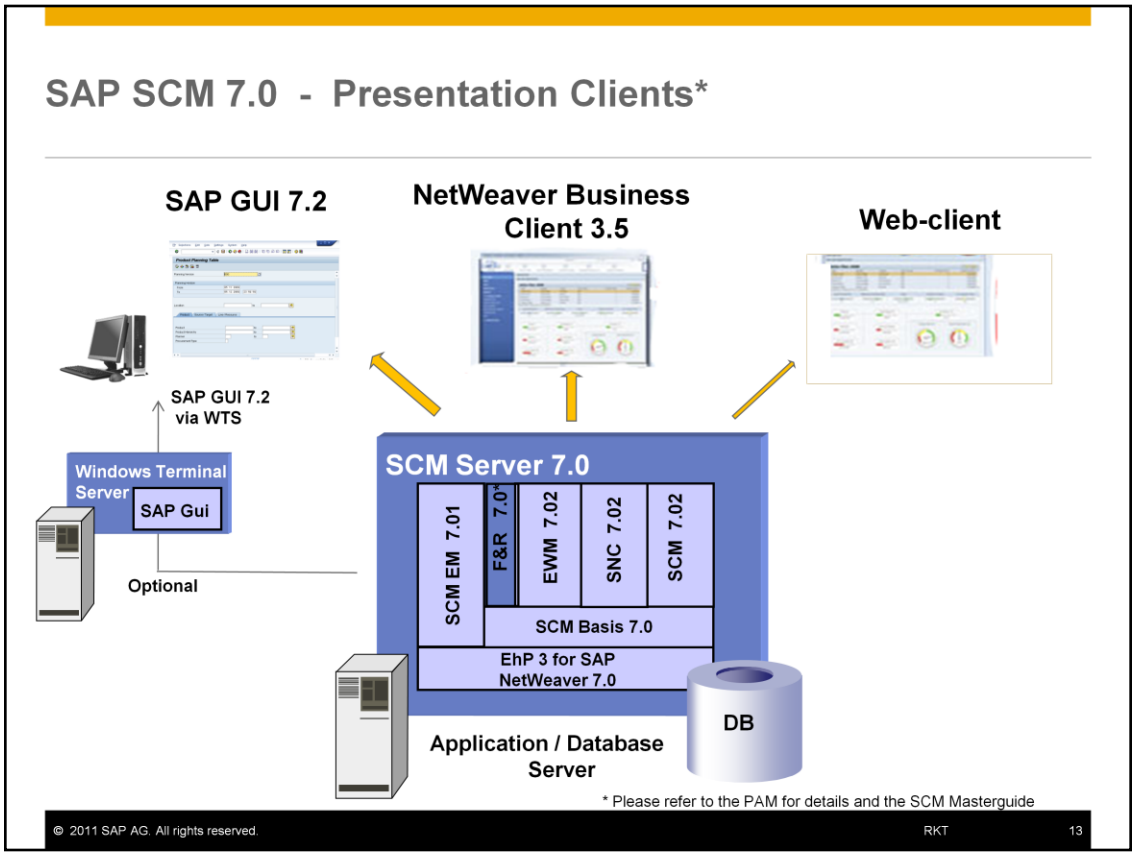
SCM 7.0 Integration With SAP Backend Systems II (Required Plug In on R/3, ECC 5.0)

		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

© 2011 SAP AG. All rights reserved.



- 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. Fur 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).
- woraround 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

- **SAP GUI**: rich client, local installation necessary (workaround via WTS possible) http://www.sdn.sap.com/irj/sdn/sap-gui

- **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.
http://www.sdn.sap.com/irj/sdn/nw-businessclient

- **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

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)

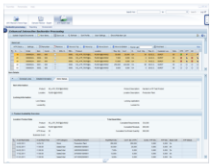
© 2011 SAP AG. All rights reserved.

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)

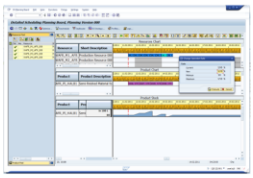


Simulation

- 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

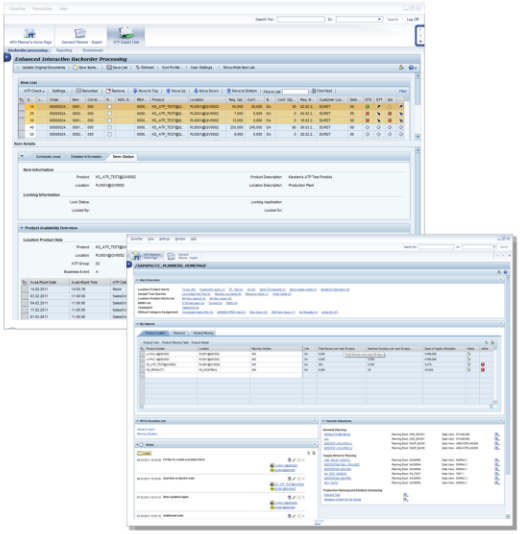


© 2011 SAP AG. All rights reserved.

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

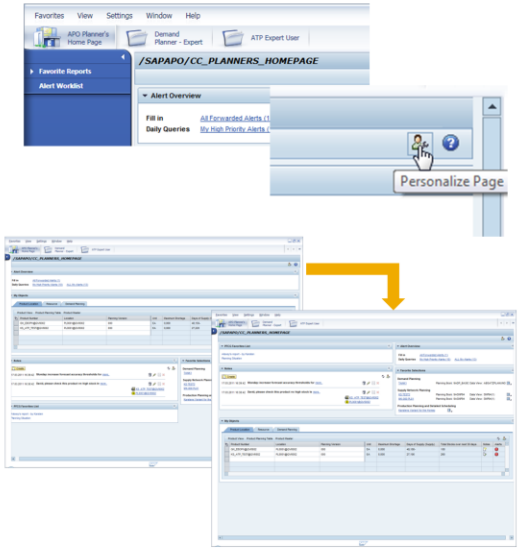
- Improved usability and user efficiency
- Based on latest SAP UI technology
- Homogeneous end user experience between APO applications
- Enhanced built-in personalization features

© 2011 SAP AG. All rights reserved.

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



© 2011 SAP AG. All rights reserved.

At a Glance

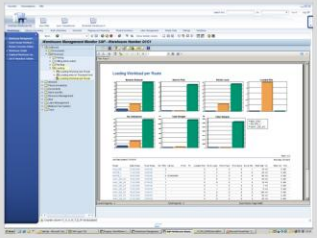
SAP Enhancement Package 2 for EWM 7.0

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

© 2011 SAP AG. All rights reserved.

Manufacturing Network Planning and Execution

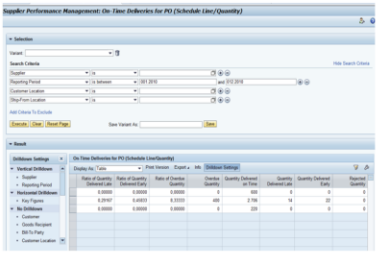
SAP SNC 7.02 Supplier Performance Management

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

PLANNED INNOVATIONS

© 2011 SAP AG. All rights reserved.

Talking Points:

1) Enhanced extraction of Purchase Order, Confirmation and ASN data
2) Introduced ability to apply weights to extracted data to normalize the data across suppliers and make the data comparable. This allows ranking of suppliers based on their individual performance.

Manufacturing Network Planning and Execution

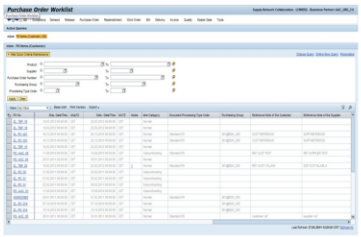
SAP SNC 7.02 Usability & Functional Enhancements

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

© 2011 SAP AG. All rights reserved.

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

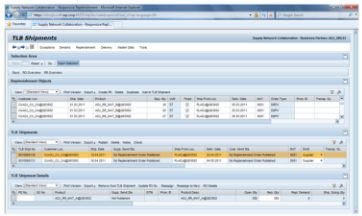
SAP SNC 7.02 Customer Collaboration Enhancements

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

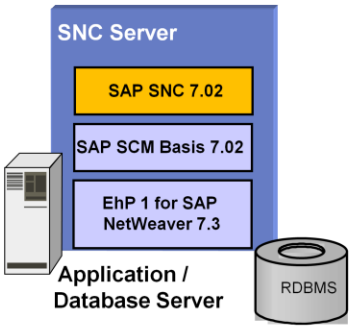
1) Graphical capabilities in forecasting UIs
2) Manual order creation support for multi-stop, multi-pick up & cross dock orders on TLB UI
3) Demand horizon taken into account while creating new replenishments with constrained supply

PLANNED INNOVATIONS

© 2011 SAP AG. All rights reserved.

SAP SCM 7.0 Architecture – SNC Deployment

SAP SNC as Add-on to NW



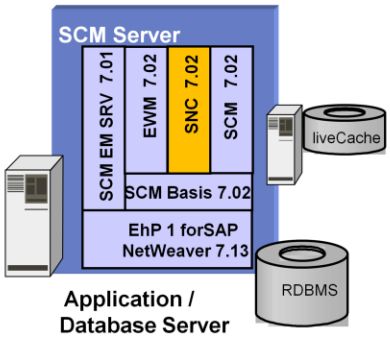
Pros

- Less support package implication
- Smaller system and hardware requirements

Cons

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

SAP SNC as part of SCM



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

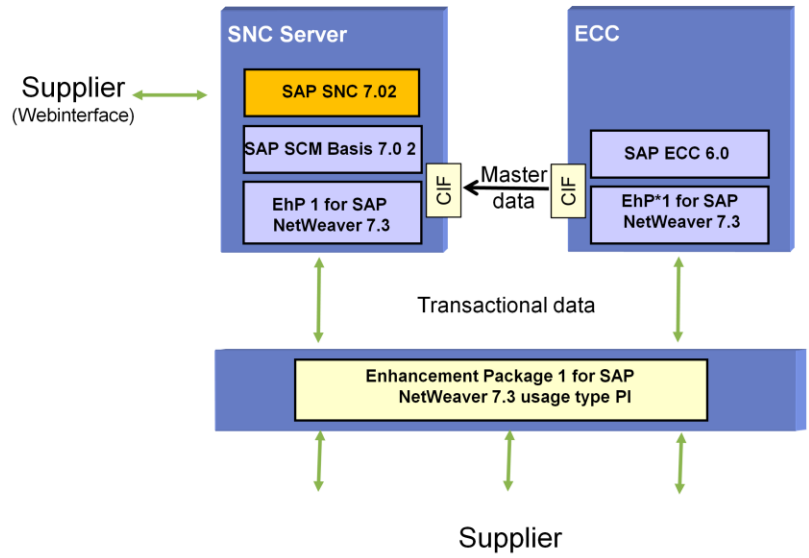
* For details please refer to the SNC 7.0 Master Guide

© 2011 SAP AG. All rights reserved.

- 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

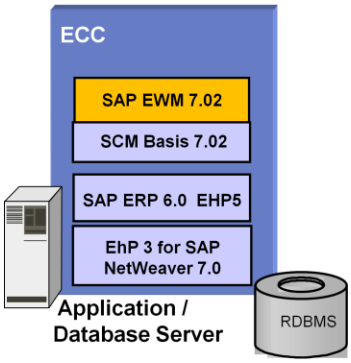
Example: SAP SNC as stand alone SNC for a Supplier Collaboration*



© 2011 SAP AG. All rights reserved.

- 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

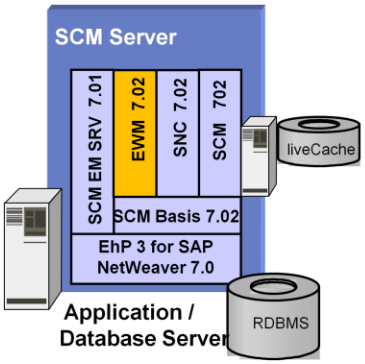
SAP SCM 7.0 Architecture – EWM Deployment



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

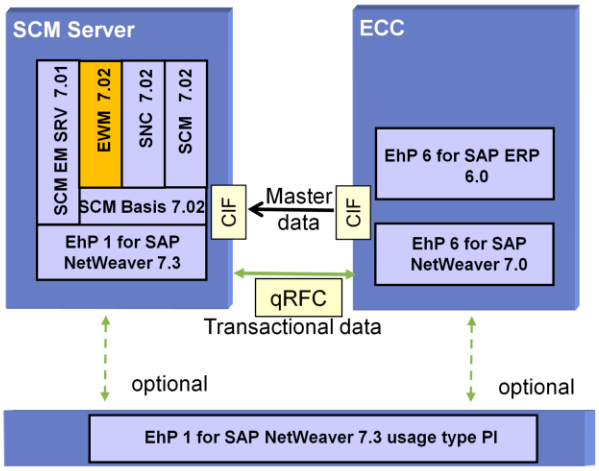
© 2011 SAP AG. All rights reserved. RKT 26

- 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 allwoing 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

© 2011 SAP AG. All rights reserved.

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

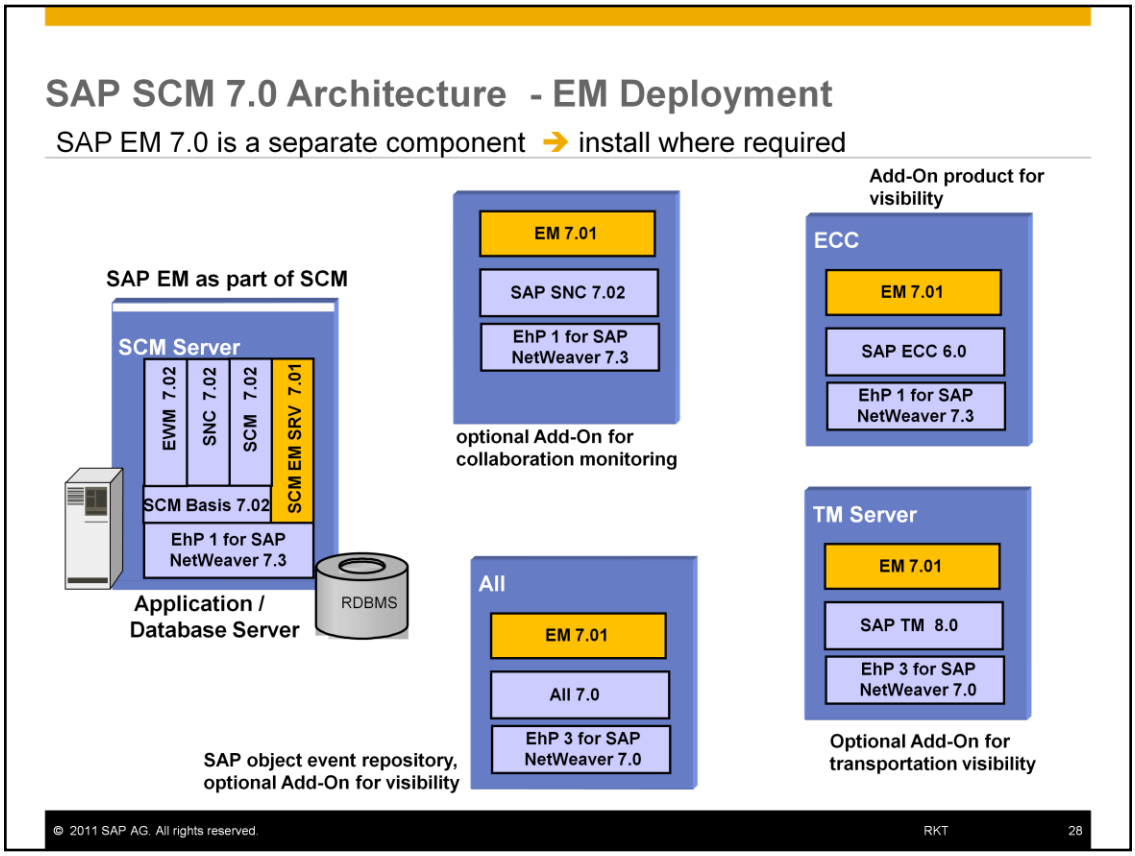
- EWM master data integration

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



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 AII (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.

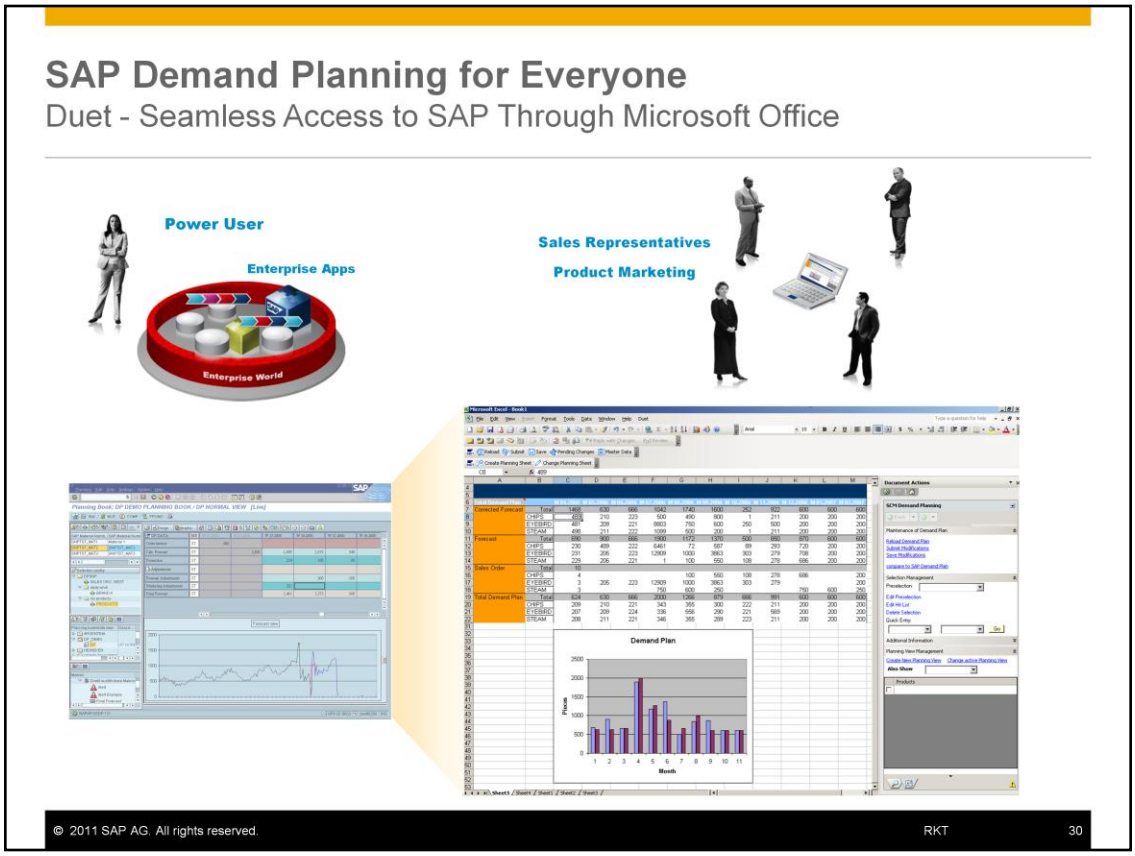
- SAP AII 7.0: This variant has to be used when setting up an SAP object event repository, in which SAP EM is the core component.

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.



- 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

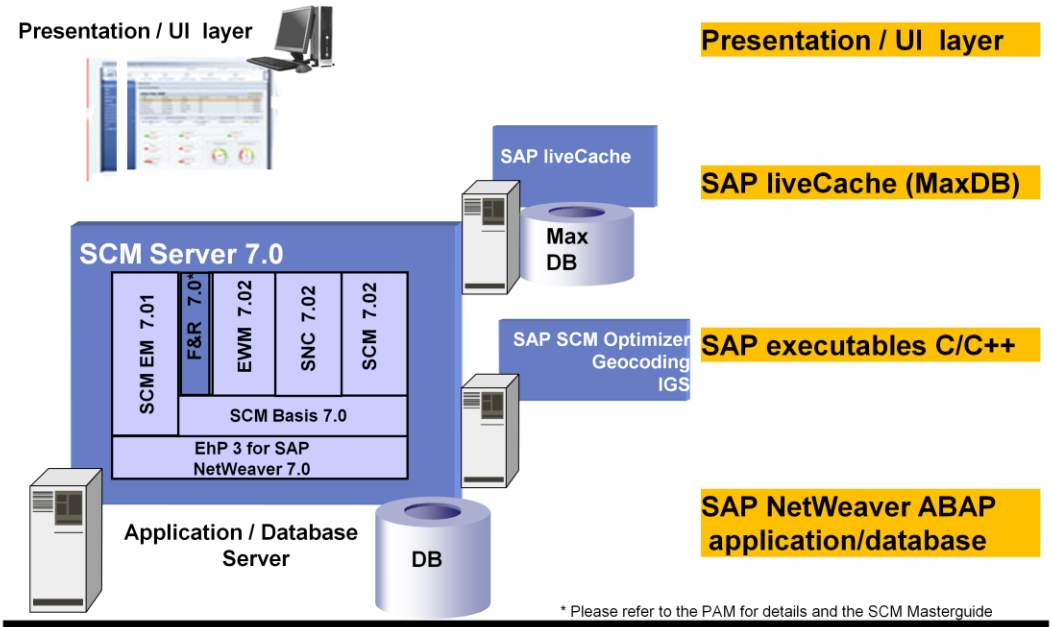
SCM Installation and Update
- General Overview
- Installation
- Upgrade

Miscellaneous

© 2011 SAP AG. All rights reserved.

SAP SCM 7.0 Platform Availability

Platform Availability is Component Dependent (Rough Overview)



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

© 2011 SAP AG. All rights reserved.

SAP SCM 7.0 Platform Availability

Detailed Information is Documentet 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, browers, countries, languages, ...

* Longer maintenance untill 2020, for details refer to the releasestrategy

© 2011 SAP AG. All rights reserved.

SCM 7.0: Hardware Sizing

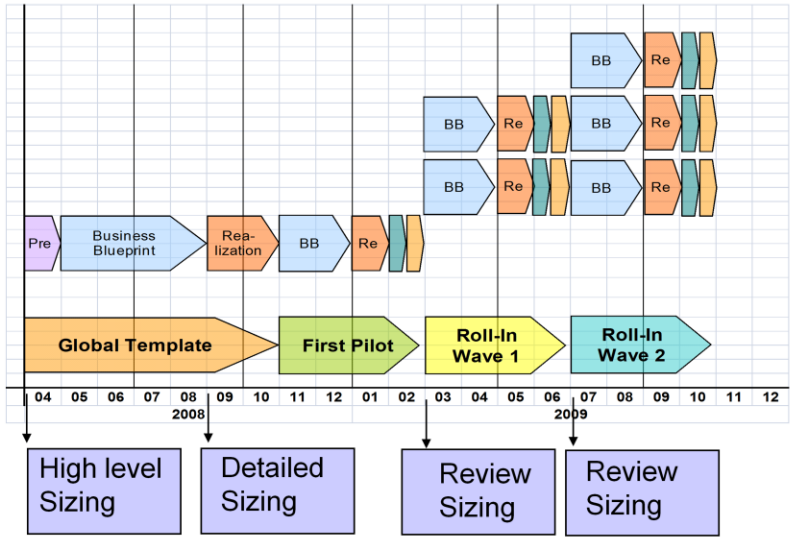
Sizing means determining the hardware requirements of an SAP System such as physical memory, CPU power, I/O capacity and network bandwidth. The size of the hardware and database is influenced by both business aspects and technological aspects. This means that the number of users using the various application 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

© 2011 SAP AG. All rights reserved.

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

© 2011 SAP AG. All rights reserved.

SCM 7.0: Sizing With Quick Sizer

Initial Hardware Sizing to Support Your Business

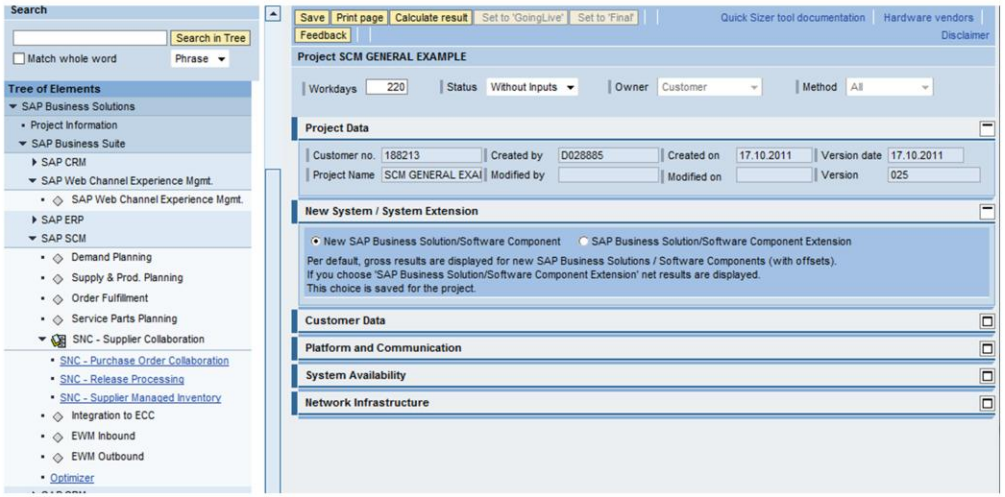
The Quick Sizer is a Web-based tool designed to make the sizing of SAP Business Suite easier and faster. It has been developed by SAP in close cooperation with all platform partners and is free of cost.
With the Quick Sizer you can translate business requirements into technical requirements. Simply fill 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

© 2011 SAP AG. All rights reserved.

SCM 7.0: Sizing With Quick Sizer / Sizing Guidelines

Available SCM Application

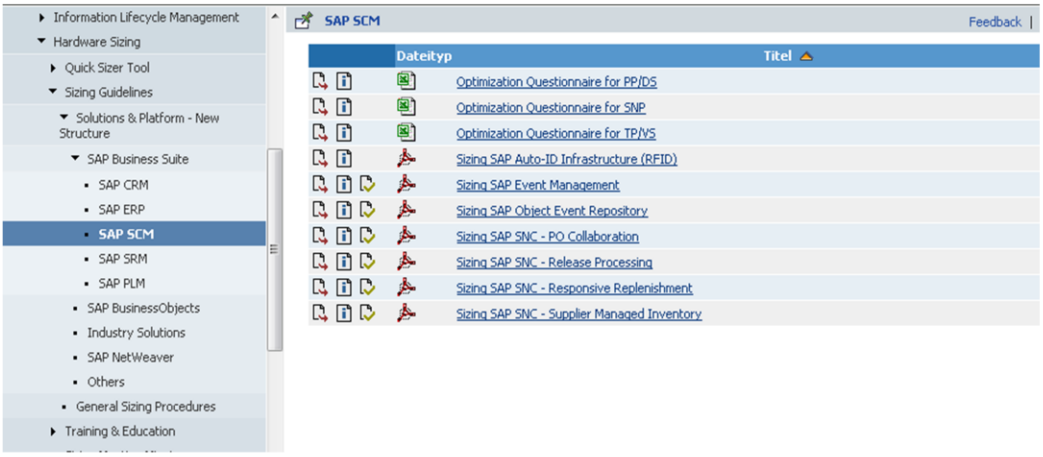


Inside the Quick Sizer you will find some of the SCM application sizing guideline links.

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

© 2011 SAP AG. All rights reserved.

SCM 7.0: Available SCM Application Sizing Guidelines



© 2011 SAP AG. All rights reserved.

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

© 2011 SAP AG. All rights reserved.

Software Logistics Toolset 1.0

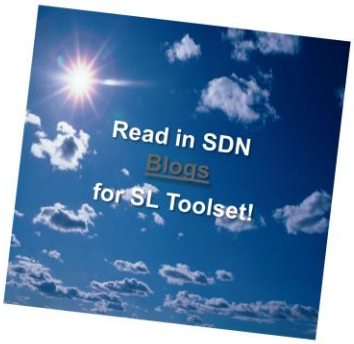
New

An independent delivery channel for **regular software logistics tool improvements** has been established with the **SL Toolset 1.0** targeting reducted 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



© 2011 SAP AG. All rights reserved.

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**

© 2011 SAP AG. All rights reserved.

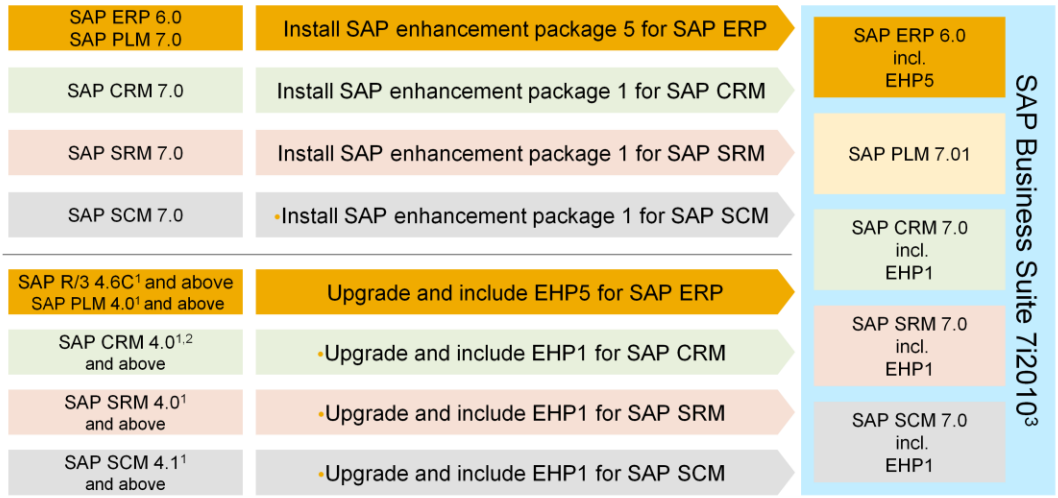
New system installation
1. **SAPInst** – installation of a new system including tech. usage “Central Applications”
2. **Maintenance Optimizer** – create stack.xml file and download required files
3. **SAPehpi** – installation of latest SP-Stack and optionally additional technical usages
alternative: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



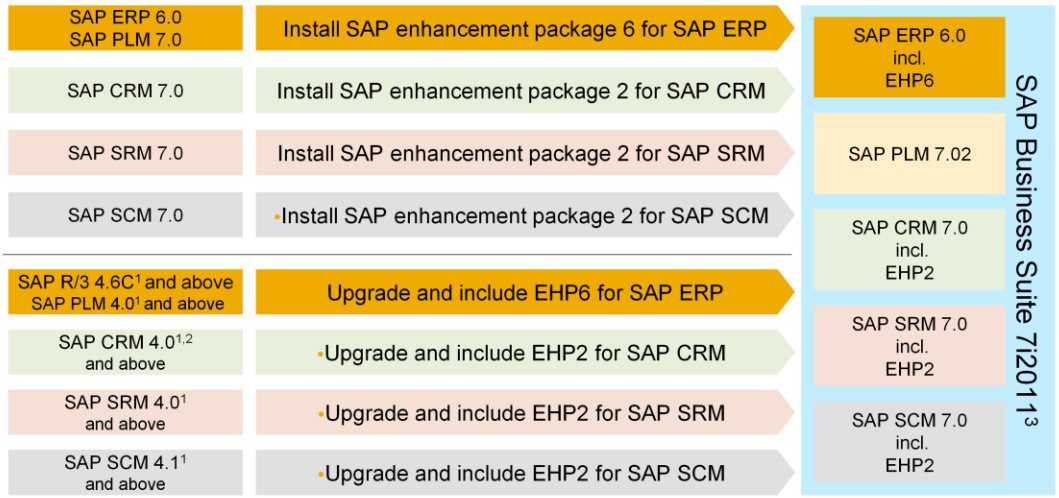
[1] Direct upgrade from these source releases to the go-to releases of SAP Business Suite 7 Innovations 2011 is supported by SAP except for the Java part.
[2] If you upgrade from SAP CRM 4.0 or 5.0 to SAP CRM 7.0, customer-specific UIs (including the underlying UI-related coding) have to be migrated 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.

© 2011 SAP AG. All rights reserved.

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.

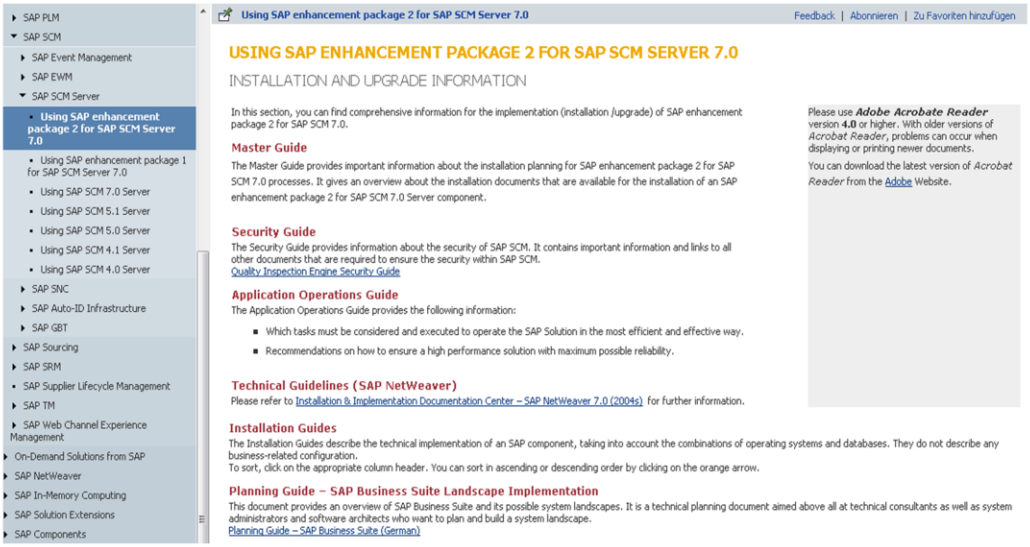
[1] Direct upgrade from these source releases to the go-to releases of SAP Business Suite 7 Innovations 2011 is supported by SAP except for the Java part.

[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/releasestrategy.

© 2011 SAP AG. All rights reserved.

Implementation of SCM 7.0 Enhancement Package 2



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

© 2011 SAP AG. All rights reserved.

Implementation of SCM 7.0 Enhancement Package 2 Start With the Required Business Process

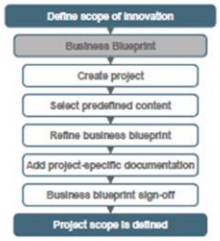
- The *SAP SCM Master Guide* provides a central starting point for the technical implementation of SAP SCM.
- To facilitate both the implementation and upgrade process, all information is grouped by business processes and business process groups.
- You can choose from several SAP SCM generic business 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 comprehensive technical documentation (i.e. installation and upgrade guides)

© 2011 SAP AG. All rights reserved.

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?

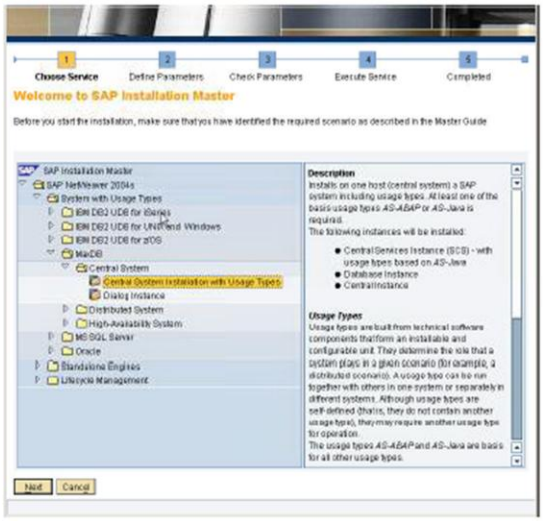
Software implementation

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

Business Blueprint and Technical Preparation Activities

© 2011 SAP AG. All rights reserved.

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

© 2011 SAP AG. All rights reserved.

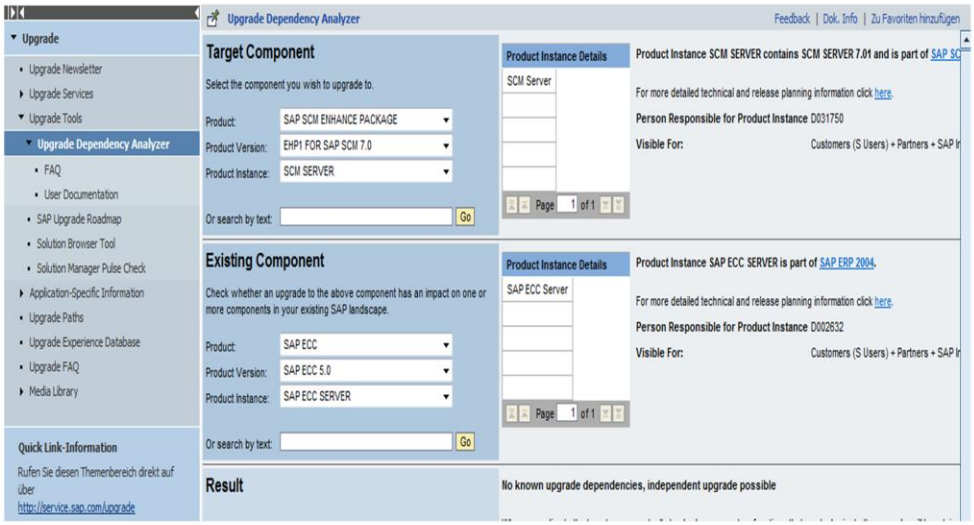
Update/Upgrade of SCM 7.0 Enhancement Package 2
Check the Existence of Update/Upgrade Dependencies

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

© 2011 SAP AG. All rights reserved.

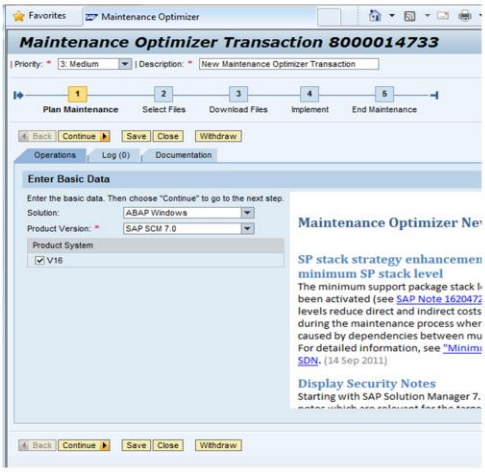
Update/Upgrade of SCM 7.0 Enhancement Package 2
Check the Existence of Update/Upgrade Dependencies, Example



© 2011 SAP AG. All rights reserved.

Update/Upgrade of SCM 7.0 Enhancement Package 2

Start the Update/Upgrade With SAP Solution Manager



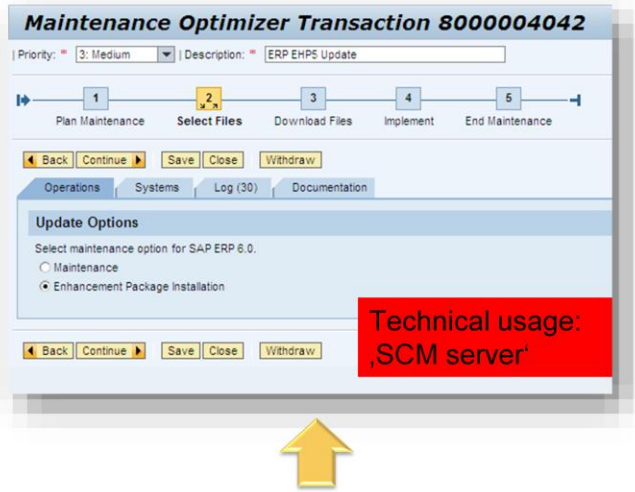
After the SAP Solution Manager is updated according to the standard procedure you have to create a new Maintenance Optimizer Transaction for the SAP SCM updates.
Follow the instructions cia wizzard and define the stack and technical usage (SCM server have only one technical usage).

© 2011 SAP AG. All rights reserved.

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

© 2011 SAP AG. All rights reserved.

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

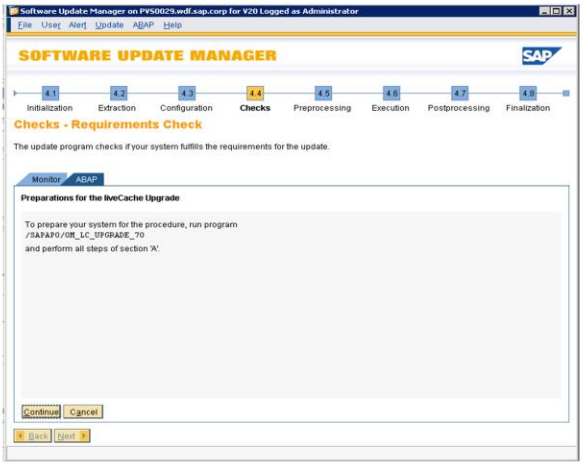
Execute the Update/Upgrade With SAP SUM (Software Update Manager)

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

© 2011 SAP AG. All rights reserved.

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.

© 2011 SAP AG. All rights reserved.

Agenda

SCM Enhancement Packages
- Concept

SCM Server Architecture
- General Overview
- New Developments in Enhancement Package 2
- Deployment Options

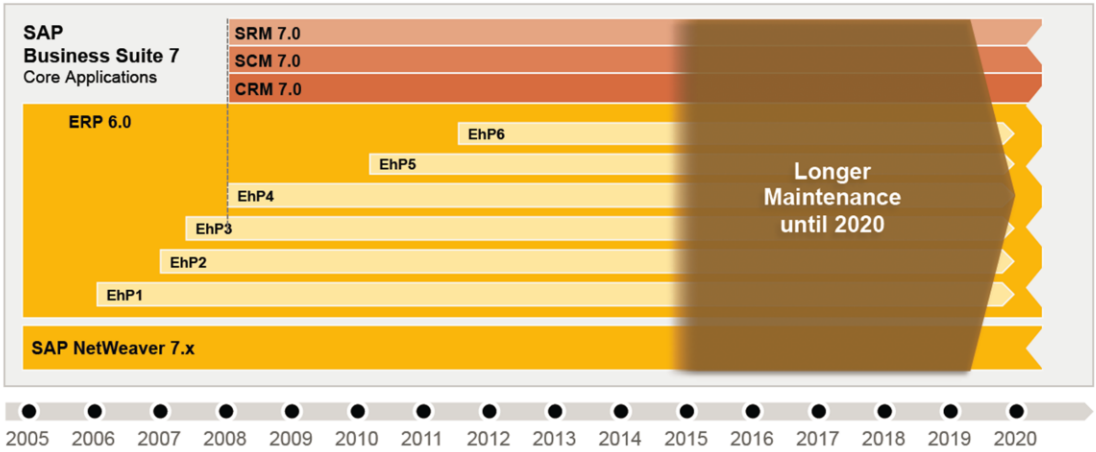
SCM Platforms and Sizing

SCM Installation and Update
- General Overview
- Installation
- Upgrade

Miscellaneous

© 2011 SAP AG. All rights reserved.

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.

© 2011 SAP AG. All rights reserved.

Enhancement Package Information Center

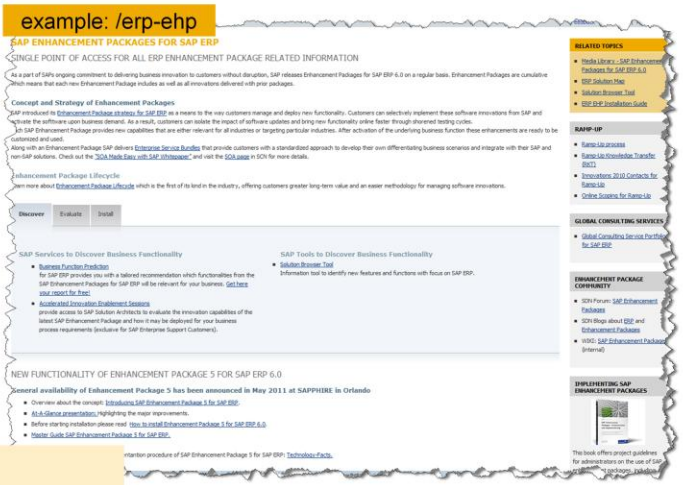
General Information

Requirements

Central access to EHP related information:

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

example: /erp-ehp



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**

© 2011 SAP AG. All rights reserved.

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:

- **The BW client must be defined at the beginning of the implementation and can not be changed afterwards.**
- **Client copies should be avoided.**
- **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.**
- **Planning Object Structure names must be unique across clients.**
- **Planning Areas and Planning Object Structures can only be accessed in the client where they were created.**
- **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".**

© 2011 SAP AG. All rights reserved.

SCM 7.0 Enhancement Package 2
liveCache Release 7.9

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

© 2011 SAP AG. All rights reserved.

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

© 2011 SAP AG. All rights reserved.

© 2011 SAP AG. All rights reserved

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

Microsoft, Windows, Excel, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.

IBM, DB2, DB2 Universal Database, System i, System i5, System p, System p5, System x, System z, System z10, System z9, z10, z9, iSeries, pSeries, xSeries, zSeries, eServer, z/VM, z/OS, i5/OS, S/390, OS/390, OS/400, AS/400, S/390 Parallel Enterprise Server, PowerVM, Power Architecture, POWER6+, POWER6, POWER5+, POWER5, POWER, OpenPower, PowerPC, BatchPipes, BladeCenter, System Storage, GPFS, HACMP, RETAIN, DB2 Connect, RACF, Redbooks, OS/2, Parallel Sysplex, MVS/ESA, AIX, Intelligent Miner, WebSphere, Netfinity, Tivoli and Informix are trademarks or registered trademarks of IBM Corporation.

Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.

Adobe, the Adobe logo, Acrobat, PostScript, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Oracle is a registered trademark of Oracle Corporation.

UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.

HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

Java is a registered trademark of Sun Microsystems, Inc.

JavaScript is a registered trademark of Sun Microsystems, Inc., used under license for technology invented and implemented by Netscape.

SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP BusinessObjects Explorer, StreamWork, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Business Objects Software Ltd. Business Objects is an SAP company.

Sybase and Adaptive Server, iAnywhere, Sybase 365, SQL Anywhere, and other Sybase products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Sybase, Inc. Sybase is an SAP company.

All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

The information in this document is proprietary to SAP. No part of this document may be reproduced, copied, or transmitted in any form or for any purpose without the express prior written permission of SAP AG.

This document is a preliminary version and not subject to your license agreement or any other agreement with SAP. This document contains only intended strategies, developments, and functionalities of the SAP® product and is not intended to be binding upon SAP to any particular course of business, product strategy, and/or development. Please note that this document is subject to change and may be changed by SAP at any time without notice.

SAP assumes no responsibility for errors or omissions in this document. SAP does not warrant the accuracy or completeness of the information, text, graphics, links, or other items contained within this material. This document is provided without a warranty of any kind, either express or implied, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, or non-infringement.

SAP shall have no liability for damages of any kind including without limitation direct, special, indirect, or consequential damages that may result from the use of these materials. This limitation shall not apply in cases of intent or gross negligence.

The statutory liability for personal injury and defective products is not affected. SAP has no control over the information that you may access through the use of hot links contained in these materials and does not endorse your use of third-party Web pages nor provide any warranty whatsoever relating to third-party Web pages.