Upgrade Dependency Analyzer

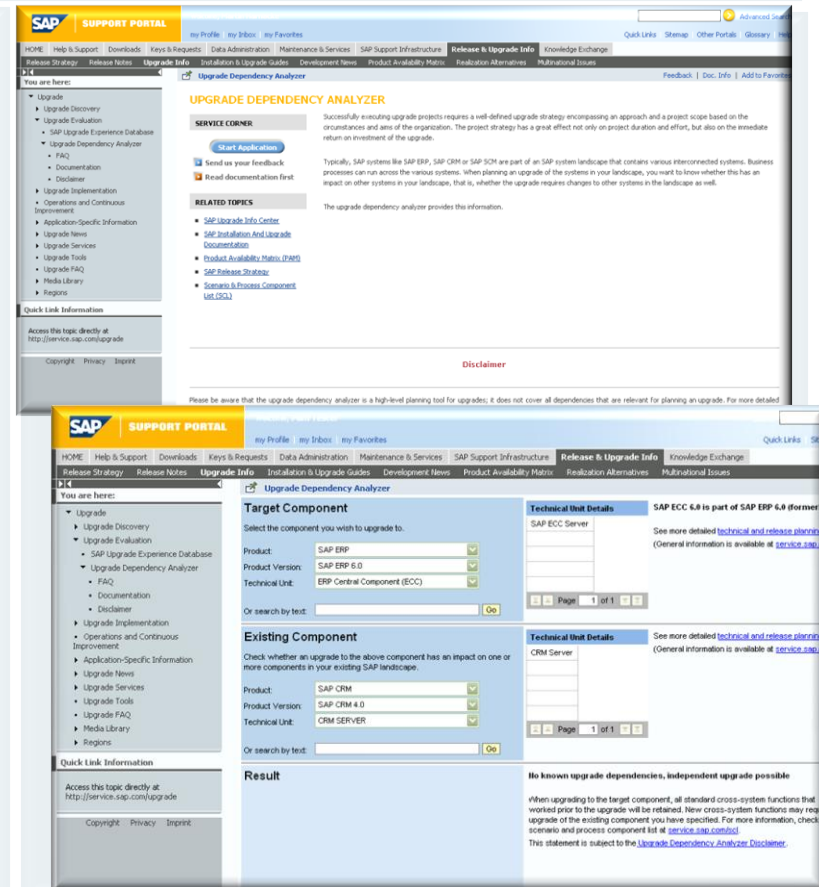# Upgrade Dependency Analyzer
Overview

Goal
To provide SAP Customers with the capability assess any upgrade dependencies between systems in their landscape by use of an online tool

Capabilities
- Check the existence of upgrade dependencies between two separately installed SAP systems in your system landscape
- [Access by the SAP Service Marketplace:](#)
- Integrated with the SAP Solution Manager (with ST400 SP17)

Benefits
- Reduce risks, costs and effort
- Quick access and easy to use
- Central access point across SAP solutions
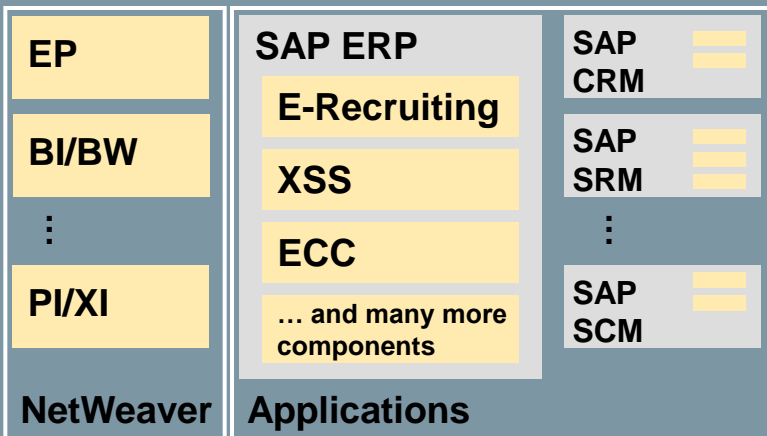
Upgrade Dependency Analyzer –
The Idea

SAP

Front-end / UI Level

- 'UI – Device & SW', e.g. PC, OS
- Printer / scanner / network
- Desktop integration, e.g. mail, office

Application Level

Industry Solutions

| EP | SAP ERP | SAP CRM |
	E-Recruiting	SAP SRM
BI/BW	XSS	
⋮	ECC	⋮
PI/XI	… and many more components	SAP SCM
NetWeaver	**Applications**	

Technology Level

- OS / DB / DC-tools release / patch-level
- Hardware dependencies (CPU, disk, etc.)
- Sizing, storage, etc.

- Customers use complex processes in distributed system landscapes
- Different systems can be dependent on each other
- Need to analyze application landscapes
- Identify dependencies when upgrading a component of a system landscape
- Support planning the scope of upgrade projects
- Technical entry level information that complements the existing and more specific approach of Scenario-&-Process-Component-Lists (SCL/PCL)
- In alignment with existing solution lifecycle management tools

Upgrade Dependencies:
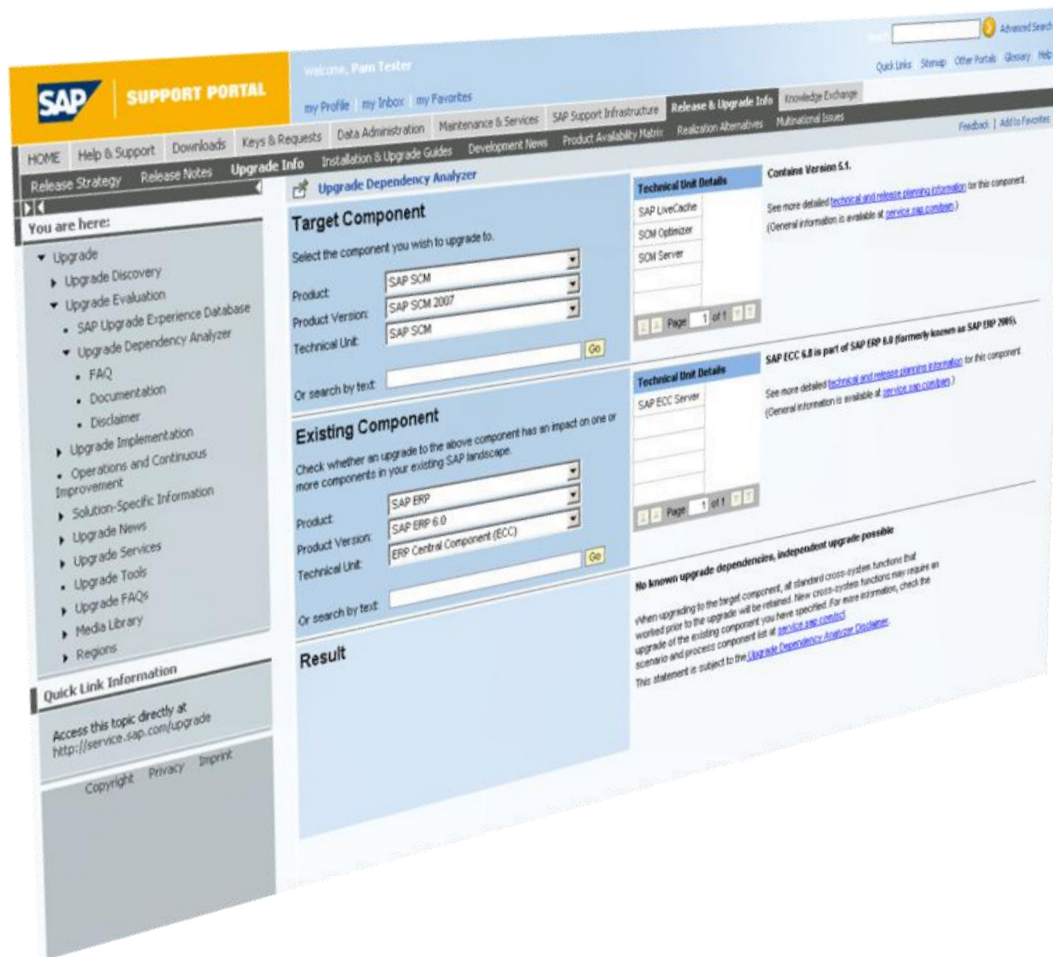# Critical for System Landscapes
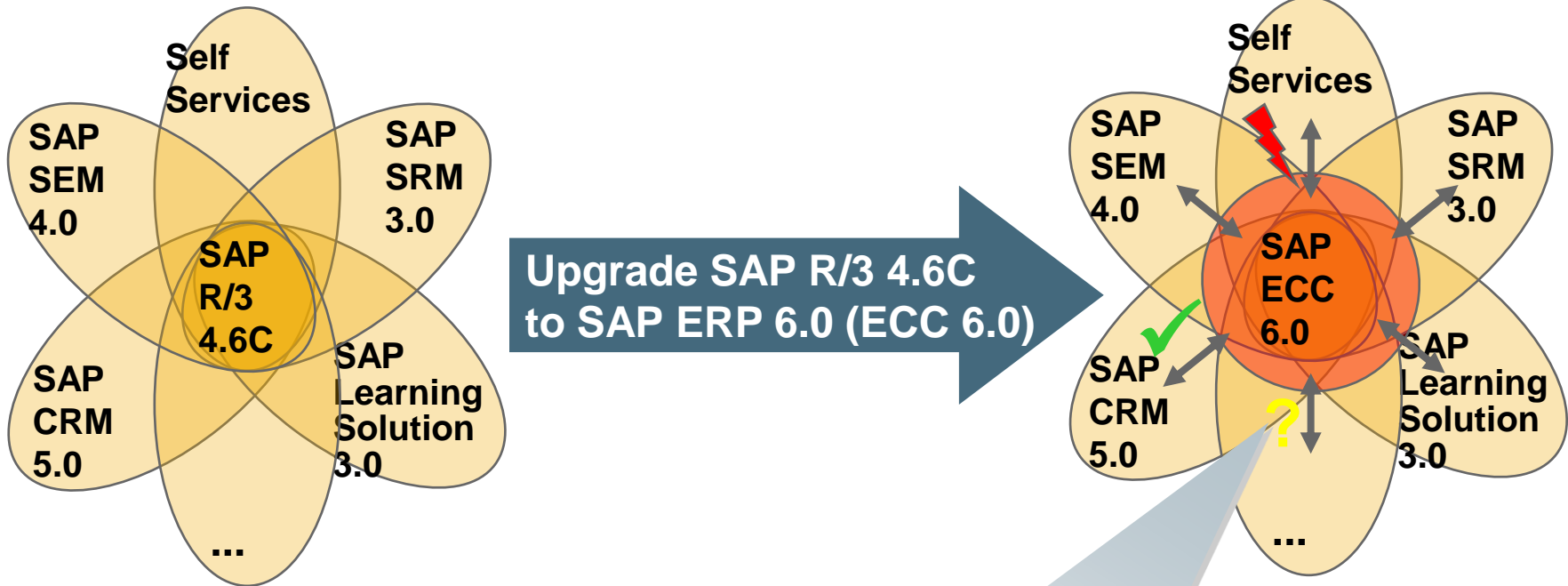
Upgrade SAP R/3 4.6C
to SAP ERP 6.0 (ECC 6.0)

- Identify release dependencies
- Which technical units to upgrade at the same time

↔ Potential release dependencies between technical units

Upgrade Dependency Analyzer –
The Solution

- **Upgrade Dependency Analyzer displays known dependencies**

- **Version 1 available now**

- **Accessible via SAP Service Marketplace: http://service.sap.com/uda**

- **Accessible via SAP Solution Manager (with ST400 SP17)**

Prerequisites and Assumptions

- Upgrade Dependency Analyzer always compares two systems, one system that is being upgraded vs. one other system in the system landscape

- The result of a dependency analysis is a predefined dependency statement and optionally an SAP note

- Dependency statements refer to separately installed systems/ technical units

- Only functionality/processes are considered that are currently used, e.g. an analysis result of "no upgrade dependencies" means, that functionality/processes that worked before the upgrade, will still work properly after the upgrade

- No information about new functionality/processes, because they often require the upgrade of both components

- Only information about standard SAP functionality/processes, not about custom developments or self-defined customer processes

- Restricted to the 'top 80%' of technical units, no individual software components considered

- All software components that are part of one system will be upgraded at the same time. Upgrade Dependency Analyzer delivers no information about possible combinations of software component versions within one system.

- Enhancement Packages currently not included but planned to be considered in a subsequent version

What is a "Technical Unit" ?

- A **technical unit** consists of one or multiple entities that belong together from a functional point of view and have to be upgraded at the same time, even if they use different technologies (e.g. ABAP and Java). They are part of one single upgrade.
  - Example: Technical unit SAP ERP - Learning Solution (LSO 6.0) contains 4 parts:
    - SAP Learning Solution Frontend ABAP = Training Management Frontend
    - SAP Learning Solution Frontend CP = Content Player (Java)
    - SAP Learning Solution Client (Lern) = Offline Player
    - SAP Learning Solution Client (Auth) = Authoring Environment
    - → **Customers may be using one or multiple parts.**
      All parts in use need to be upgraded at the same time.
- Upgrade Dependency Analyzer displays details of the technical unit selected, so that all affected parts can be identified.

Focus of Upgrade Dependency Analyzer vs. Scenario & Process Component List

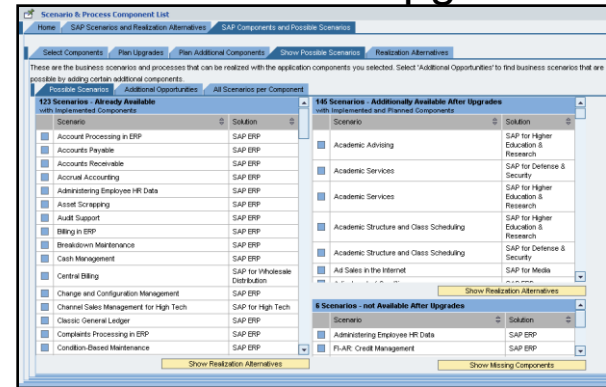## Upgrade Dependency Analyzer

- High level technical planning
- Shows known dependencies on technical level according to categories:
  - Dependency exists
  - Conditional dependency exists
  - Currently no dependencies
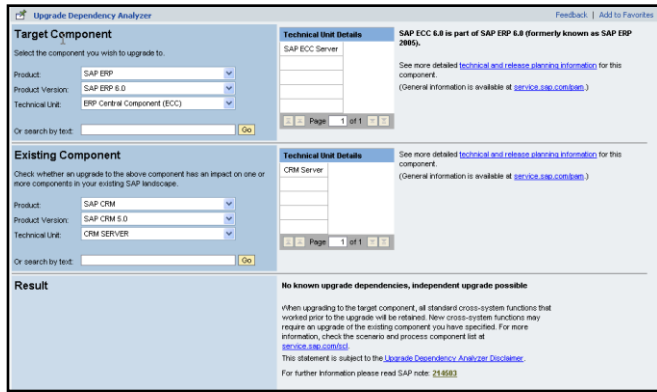
- **Answers the question:**
  Will a given combination of two systems still work (still be supported by SAP) after the upgrade of one of these systems?

Scenario & Process Component List

- Detailed analysis on process level
- Shows predefined scenarios / processes before and after an upgrade according to categories:
  - Already available
  - Additionally available after upgrade
  - Not available after upgrade

- **Answers the question:**
  Which scenarios/processes will continue to work (or will not work any more) after the upgrade of a component in a defined system landscape?

Possible Results of a Dependency Analysis

- **No interaction:**
  The two components you have specified have no standard cross-system functions in common. No direct interaction exists. You can upgrade the components independently.
    - *Example: Upgrade to SAP ERP 6.0 - Learning Solution (LSO 6.0) vs. SAP CRM 4.0 - CRM Server*

- **No known upgrade dependencies, independent upgrade possible:**
  When upgrading to the target component, all standard cross-system functions that worked prior to the upgrade will be retained. New cross-system functions may require an upgrade of the existing component you have specified. For more information, check the scenario and process component list at http://service.sap.com/scl.
    - *Example: Upgrade to SAP ERP 6.0 - ECC Server (ECC 6.0) vs. SAP NetWeaver 04 - Business Intelligence (BW 3.5)*

- **Independent upgrade possible, but with known restrictions:**
  When upgrading to the target component, most standard cross-system functions that worked prior to the upgrade will be retained. If there are any restrictions, you will find these in the attached note.
  These restrictions may comprise one or more of the following. After the upgrade:
    - Some cross-system functions may not work or require adjustments
    - Additional support packages may be needed
    - Additional manual steps may be required
    - *Example: Upgrade to SAP ERP 6.0 - ECC Server (ECC 6.0) vs. SAP SRM 3.0 - SRM Server → Note 931020*

- **Independent upgrade not possible:**
  After the upgrade to the target component, some or all standard cross-system functions will no longer work. It is required to also upgrade the existing component you have specified, or you may have to manually re-implement those cross-system functions in a different way. This combination of target and existing components is not supported by SAP.
    - *Example: Upgrade to SAP ERP 6.0 - ECC Server (ECC 6.0) vs. SAP ERP 2004 – Self Services (XSS 5.0)*

- **Currently no statement available:**
  The upgrade dependency information for the components you have specified is currently not available or one of the product versions you have selected is already in customer specific maintenance.

Example

- **Sample Customer currently uses 3 systems in a landscape:**
  - **SAP R/3 4.6C**
  - **SAP CRM 5.0 - CRM Server**
  - **SAP SRM 4.0 - SRM Server**
- **Customer plans to upgrade SAP R/3 4.6C to SAP ERP 6.0 - ECC Server (ECC 6.0) → Needs to check the following upgrade dependencies:**
  - **SAP ERP 6.0 - ECC Server (ECC 6.0) vs. SAP CRM 5.0 - CRM Server**
  - **SAP ERP 6.0 - ECC Server (ECC 6.0) vs. SAP SRM 4.0 - SRM Server**

List of Key Components Not Included in the Upgrade Dependency Analyzer

Component	Upgrade Information
SAP Internet Transaction Server (SAP ITS) → Has been integrated in Application Server ABAP with SAP NetWeaver 7.0	SAP note 197746 (SAP ITS maintenance strategy)
SAP Solution Manager	SAP Solution Manager should always be operated on the latest release to enable access to the newest tools but has no direct impact on the business processes in connected systems.
SAP Business Connector (SAP BC)	SAP note 571530 (SAP BC availability) SAP note 309834 (SAP BC release and support strategy)
SAP Content Server	SAP note 719971 (SAP Content Server release strategy)

For more information and an up-to-date list see:
http://service.sap.com/uda → Documentation