SAP Solution Manager for Customizing Synchronization

Product Management
SAP Solution Manager
SAP AG
Learning Objectives

As a result of this presentation, you will be able to:

- Describe major challenges for Customizing Synchronization
- Explain how SAP Solution Manager supports Customizing Synchronization
- Describe how local customizing locks facilitate configuration management
- List benefits that you can gain by using SAP Solution Manager for Customizing Synchronization
SAP Solution Manager – Scenarios

Task

- Synchronization of customizing across your landscape

Target Group

- All customers with more than one SAP R/3, SAP R/3 Enterprise or SAP ECC system
- mySAP Business Suite customers

Benefits

- Consistency of customizing in multiple-system landscapes
- Reduction of manual synchronization efforts
- Flexibility of configuration distribution
- Sophisticated centralized configuration tracking and monitoring
Definition Customizing Synchronization

Customizing Scout

Customizing Distribution

Local Customizing Locks

Summary & Additional Information
Challenges of Consistent Customizing Settings

- Lock customizing in target landscape?
- All transports released in DEV system?
- Detected Customizing discrepancies eliminated in my system landscape?
- Customizing in my transports that should not be released?
- Customizing that differs across my system landscape?
- Corrections in QAS that not maintained in the DEV system?
- Any current settings unavoidably resulting into inconsistency?

Customer
Keeping Business Configuration in Sync

SAP R/3

Time zones
Transport zones
Currencies
Customer groups
...

SAP CRM

Time zones
Transport zones
Currencies
Customer groups
...

SAP APO

Time zones
Transport zones
Currencies
Customer groups
...
Importance of Synchronous Customizing

A mySAP Business Suite system landscape consists of various components which have their own customizing tables.

Technical point of view

Question
How to secure cross-component customizing consistency?

Solution
Customizing Synchronization

Semantical point of view
Components need, however, some common set of customizing.
Two components of Customizing Synchronization

Comparing Customizing
- Comparison between systems and clients
- No automated customizing adjustments
- Use to control customizing before and after distribution

CUSTOMIZING SCOUT

Distributing Customizing
- From one to multiple target systems and components
- Automated customizing distribution possible
- Use to distribute defined set of customizing between components

CUSTOMIZING DISTRIBUTION
Definition Customizing Synchronization

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Summary & Additional Information
Comparing Customizing Settings in Two Systems

Development System

Quality Assurance System

Configuration settings

Configuration settings
Comparing Customizing Across Components

SAP ECC/SAP R/3

Configuration settings

SAP MDM

Configuration settings

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Customizing Comparison – Process in Detail

SAP Solution Manager with Customizing Scout

SAP ECC/
SAP R/3

customizing objects to be compared

SAP MDM

customizing objects to be compared

Comparison results

Synchronization Group

source settings
target settings

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Scope Definition for Comparison and Distribution

Define your customizing object piece list

- Group customizing for comparison or distribution using customizing objects or IMG activities
- Use SAP predefined synchronization objects for cross-component comparison and distribution
- Define customizing objects locks for target systems (SAP Solution Manager 3.2)

... simply using

Synchronization Group Editor
Customizing Scout: Comparison Results

Legend for overview results

<table>
<thead>
<tr>
<th>Stat.</th>
<th>Object</th>
<th>Synchronization Object</th>
<th>Description</th>
<th>Comp</th>
<th>Entries</th>
<th>Target</th>
<th>Only in Target</th>
<th>Entries Changed</th>
<th>Only in Source</th>
</tr>
</thead>
</table>
Customizing Scout: Field-level View

Example: CRM Billing Blocking Reasons

Differences high-lighted:
Entry only available in source system

Legend:
- View/Table Entry Difference
- Field Content Difference
- Entry only in the Target System
- Entry only in the Source System
- Entry only in Source System
- Similar Entry
**Customizing Scout - Benefits**

**Increased transparency**
- All comparison results available in one central list
- Branching into details list possible

**Reduction of manual comparison work**
- Individual customizing table comparisons are superfluous

**Easy deployment**
- Very easy setup of comparison runs
- Only read-RFCs are required
Customizing Scout - Benefits

**Coverage of multiple usage scenarios, for example**

- Inter-landscape consistency check (DEV-QAS-PRD)
- Cross-component consistency check (such as: SAP MDM <-> SAP R/3)
- Comparison after upgrades or change management activities

... And beyond that Customizing Scout

- Is integral part of the SAP Solution Manager product portfolio and free of charge
- Is the natural extension of a proven comparison tool: Customizing Cross-System Viewer
- Delivers support of installed-base landscapes
The Customizing Scout can compare systems with the following releases ...

<table>
<thead>
<tr>
<th>System A</th>
<th>System B</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP R/3 (3.1I and higher)</td>
<td>SAP R/3 (3.1I and higher)*</td>
</tr>
<tr>
<td></td>
<td>SAP MDM 2.0, 3.0</td>
</tr>
<tr>
<td></td>
<td>SAP HR 4.7</td>
</tr>
</tbody>
</table>

Basically all ABAP-based systems can be involved in the comparison process. Comparisons using the Customizing Scout can also be based on your own (customer-specific) synchronization objects.

* No synchronization objects available
Definition Customizing Synchronization
Customizing Scout
**Customizing Distribution**
Local Customizing Locks
Summary & Additional Information
Automatic Customizing Distribution in Detail

1. Save customizing into transport request
2. Notify Solution Manager about customizing changes
3. Map source into target customizing after importing changes
4. Send target settings to target system
5. Activate BC Set and write target settings into transport request
6. Generate distribution logs
Elimination of inconsistencies
- Detected by the CCSV or Customizing Scout

**Groundwork for efficient master data management**
- Establish customizing data basis

**Distribution of customizing for business process**
- Requiring the same set of customizing across different components

**Centralization of customizing development**
- Support system consolidation efforts

**Configuration of empty systems**
- Using initial distribution
How To Set Up Customizing Distribution

**Setup synchronization group**

- Define piece list of objects to be distributed into target systems

**Note:**

- Local customizing lock functionality also works independently from distributing Customizing (SAP Solution Manager 3.2).
How To Set Up Customizing Distribution

Quickly define your distribution scope (synchronization group)

Set up synchronization group
- Via IMG activities
- Via customizing objects
- Via SAP-predefined synchronization groups
Define customizing distribution scenario

- What? – Synchronization group
- From where to where? – Source and target systems
- At what times? – Distribution types/frequency

Overview distribution options

- At transport recording (for immediate testing)
- At transport release (after successful testing)
- Timed distribution (transfer of customizing only at pre-defined times, e.g. at night or at weekends)
- Initial distribution (complete copy of selected customizing objects)
How To Set Up Customizing Distribution

Easily set up Customizing Distribution scenario

Set up Customizing Distribution

- Include synchronization group
- Define distribution source and target
- Define distribution type (frequency)
How To Set Up Customizing Distribution

Evaluate distribution logs

- Overview of all active customizing distributions
- Detailed distribution logs:
  - Administrative data (When? Who? Distribution from - to?)
  - Distribution log entries
  - Cause of error
  - Recommendations for error handling
- Link to BC Set activation log
  (technology integrated into Customizing Distribution)

♫ Note:
- Make use of integrated comparison functionality: Customizing Scout!
Flexible logging selection to ...

Select your logging option
- Source transports
- Users / date / time
- Source / target systems
How To Set Up Customizing Distribution

... track and trace distribution status

Evaluate selected log
- Messages for distribution log entries
- Navigate into BC Set logs to view distributed customizing content
How To Set Up Customizing Distribution

Re-run distribution

- If customizing synchronization is required on a regular basis
- In case of distribution failures
- Possible for individual transports, too
How To Set Up Customizing Distribution

Re-distribute customizing for individual transports
The Customizing Distribution can synchronize systems with the following releases ...

<table>
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<th>System A</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SAP R/3 4.6C and higher (with appropriate support package) for distribution options: transport recording or transport release</td>
<td>SAP R/3 4.6C and higher (with appropriate support package, no synchronization objects available)*</td>
</tr>
<tr>
<td>SAP R/3 3.1 and higher for timed distribution</td>
<td>SAP MDM 2.0, 3.0</td>
</tr>
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<td>SAP HR 4.7</td>
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Basically all ABAP-based systems can be involved in the distribution process. Customizing Distribution can also be based on your own (customer-specific) synchronization objects.

* No synchronization objects available
**Customizing Distribution - Benefits**

**Consistency of customizing in multiple-system landscapes**
- Safer administration of cross-component customizing
- Less error-prone replication of customizing
- Simple consistency checks

**Reduction of manual distribution works**
- Automated distribution procedure
- Synchronization into various systems at once
- Central management of all customizing synchronization requests

**Distribution flexibility**
- Variable distribution frequency
... And beyond that
Customizing Distribution

- Is integral part of the SAP Solution Manager product portfolio and free of charge
- Enhances ALE Customizing Data distribution features/technologies
Definition Customizing Synchronization
Customizing Scout
Customizing Distribution
Local Customizing Locks
Summary & Additional Information
Local Customizing Locks

- Lock customizing in component systems against changes
- To be used independent of or in conjunction with Customizing Distribution
- Lock possible for specific customizing ranges (filtering)
- Available with SAP Solution Manager 3.2
Local Customizing Locks: Overview Graphic

1. Define synchronization group

2. Distribute customizing lock information to target

3. Display locked objects in SAP Solution Manager

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How To Set Up Local Customizing Locks

Easily set up locking mechanism

Set up local locks
- Define lock piece list (synchronization group)
- Define target for locks
How To Set Up Local Customizing Locks

Centrally view locked target customizing objects
Local Customizing Locks - Benefits

**Central configuration management**
- Management of customizing distribution and customizing locking, also independent of each other

**High degree of availability**
- Locks reside locally in component system
- Available independent of SAP Solution Manager
Definition Customizing Synchronization
Customizing Scout
Customizing Distribution
Local Customizing Locks
Summary & Additional Information
SAP Solution Manager – Customizing Synchronization

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Target Group

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Benefits

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- Reduction of manual synchronization efforts
- Flexibility of configuration distribution
- Sophisticated centralized configuration tracking and monitoring
BSH is market leader in Germany and number-one in Europe as manufacturer of home appliances.

BSH deploys a global redesign project of their business application landscape that is centrally supported by SAP Solution Manager.

Almost 400 project team members are using SAP Solution Manager in the Realization phase.

There is no better way to control customizing in heterogenous system landscapes than with the integrated use of SAP Solution Manager’s customizing distribution functionality. Today, we have 9 development systems that are controlled by the SAP Solution Manager.

Andre Moers, B/S/H/, SAP Technology / Information Technology
Customizing Synchronization – Further Information

HP Success Story about the use of Customizing Distribution

http://www.service.sap.com/solutionmanager

-> Media Library

-> Success Stories
Customizing Synchronization – Further Information

SAP Solution Manager Customizing Synchronization – Presentations and e-Learning

- http://service.sap.com/rkt-solman (SAP Solution Manager Learning Map)

Online Documentation

  -> Documentation -> SAP Solution Manager
  -> topic “Customizing Synchronization”

General Information Customizing Synchronization

- Background information on Customizing Scout and Customizing Distribution
  http://www.service.sap.com/customizing
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