Custom Development Management Cockpit (CDMC) - in Detail

SAP AGS SLO Solution Management
2011
Agenda

1. Customer Situation and Challenges

2. Positioning of CDMC within SAP Solution Manager – Enterprise Edition

3. Solution Approach

4. Key take aways
   1. Benefits of SAP CDMC
   2. Facts & Figures

5. Further information
Customer Situation and challenges

**Business Needs**

- Flexibility to adjust your SAP system to new business requirements
- Reduce maintenance costs for custom developments
- Reduce costs caused by upgrades or Support Package implementations
- Improved transparency of test scope impact due to incoming transports

**Challenges**

- No transparency as to whether custom developments are productively used
- Growing number of custom developments and SAP modifications
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1. Customer Situation and Challenges
2. Positioning of CDMC within SAP Solution Manager – Enterprise Edition
3. Solution Approach
4. Key take aways
   1. Benefits of SAP CDMC
   2. Facts & Figures
5. Further information
CDMC is an integrative part within the Application management life cycle...

...and has its use cases at various points in the life cycle

- Identify customer developments using SAP standard objects
- Define the scope of customer developments to be used after the upgrade
- Identify the impact of an upgrade to customer developments and define integration testing requirements and test scope
- Provide information about cloned SAP objects
- Identify the usage and dependency analysis for the objects coming from a transport request.

Set up a continuous process to identify and delete obsolete customer developments with CDMC

Set up a continuous process to monitor the usage of your custom developments with CDMC
**Application Management Processes**

**Identification of critical business processes**

**Support of non-SAP solution aspects**

- Solution documentation of custom code, partner solutions and other vendors and interfaces
- Usage analysis of custom developments in an SAP system
- Identification of potentially obsolete objects
- Identification of impacts an upgrade or support package installation can possibly have on custom developments
- Calculation of the effort necessary for adjusting the custom developments affected by an upgrade or support package installation
Support of non-SAP solution aspects

- Solution documentation of custom code, partner solutions, and other vendors and interfaces
  - Use analysis of custom developments in an SAP system
  - Identification of potentially obsolete objects
  - Identification of possible impacts on custom developments from an upgrade or support package installation
  - Calculation of the effort necessary to adjust the custom developments affected by the upgrade or support package installation

SAP Solution Manager supports your entire solution: SAP solutions, custom code, partner solutions and other vendors
Parts of CDMC

Create the prerequisites for a clearing analysis, an upgrade/change impact analysis and change and transport system analysis projects

- **Clearing Analysis**
  Use analysis of customer developments in an SAP system combined with an identification of potentially useless objects

- **Upgrade/Change Impact Analysis**
  Identification of potential consequences an upgrade can have on customer developments

- **Change and Transport Analysis**
  Use analysis of objects in a transport request by identifying the test scope and test coverage analysis
- Activate statistic collection from ST03n on the relevant production Systems
- The statistics should cover at least three months and one fiscal year change.
- The statistic serve as the basis for the subsequent analysis activities

- Maintain average adjustment times for every customer object type
- Adjustment times appear on the result list for every customer object and will be the basis for a first effort estimation for adjusting custom objects in the course of an upgrade
Phases of a Clearing Analysis Project

Key activities

- **Global Settings**
  - Activation of statistical collection for usage analysis

- **Project settings**
  - Define project landscape
  - Display SAP Notes

- **Collect**
  - Determine customer objects
  - Determine SAP modifications
  - Import statistics

- **Analysis**
  - Run various analysis functions

- **Display**
  - Display analysis results
  - Evaluate and interpret results

- **Clearing**
  - Work with how-to guide for clearing
System Landscape CDMC Clearing Analysis Project

CDMC Analysis Systems

QAS1
QAS2
QAS3
QAS4

CDMC Control System
Central Solution Manager system

CDMC Statistics Systems

PROD1
PROD2
PROD3
PROD4
System Landscape CDMC Clearing Analysis Projects

CDMC Analysis Systems

Purpose:
1. Execute all project-related analyses (including selection of relevant objects)
2. Reflects the quality assurance system

Key activities:
1. Ensure that the analysis system contains the full repository objects of the production system

CDMC Statistics Systems

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Purpose:
1. Provides statistical information about used custom development objects
2. Executes project-specific queries such as the syntax check for customer programs or the search for empty customer tables
3. Reflects the production system

Key activities:
1. Ensure you have the correct settings in place for statistic collection in transaction ST03n
Purpose:
1. Trigger all CA relevant activities for every project and dedicated system landscape
2. Provides process tree, monitoring, and status tracking information for every activity
3. Platform for evaluating the results of the analysis
4. Reflects the central Solution Manager system

Key activities:
1. Activate statistic collection
2. Maintain adjustment times
3. Create CA project
4. Trigger project-related activities
5. Provide CA result list
Use cases of CDMC within SAP Solution Manager 7.1 Enterprise Edition

**Clearing Analysis/Change Transport Analysis**

- Solution 1
- Solution 2

**CDMC Control System**

**Central Solution Manager System**

**Workcenter:** Implementation/Upgrade

**Key activities:**
- Identify via the CDMC control system obsolete custom developments in a solution (PRD system)
- Initiate clearing/change transport analysis

**Key activities:**
- Launch CDMC via work center or upgrade roadmap
- Trigger all CA, UCIA and CTS relevant activities for every project and dedicated system landscape

**Upgrade / Change Impact Analysis**

**Upgrade Project**

- Upgrade Project
- DEV → QAS → PROD

**Maintenance Project**

- Maintenance Project
- DEV → QAS → PROD

**Key activities:**
- Use list with used custom developments as an input for the UCIA project
- Determine Impact on custom developments during upgrade
Display Results of Clearing Analysis
Example of results list

<table>
<thead>
<tr>
<th>Status</th>
<th>Solar Object</th>
<th>Solution Manager Object Description</th>
<th>Solution Manager Object Type</th>
<th>Business Scenario</th>
<th>Business Process</th>
<th>Business Process Status</th>
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<td>CDMC test project for CA Scenario</td>
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Parts of CDMC

Create the prerequisites for a clearing analysis, an upgrade/change impact analysis and change and transport system analysis projects.

Clearing Analysis
Use analysis of customer developments in an SAP system combined with an identification of potentially useless objects.

Upgrade/Change Impact Analysis
Identification of potential consequences an upgrade can have on customer developments.

Change and Transport Analysis
Use analysis of objects in a transport request by identifying the test scope and test coverage analysis.
Phases of a Upgrade/Change Impact Analysis Project

Key activities

- **Project settings**
  - Define project landscape.
  - Get Copied Programs List
  - Maintain Copied Programs List
  - Display SAP Notes.
  - Maintain adjustment times.

- **Analysis**
  - Find Referred SAP objects.
  - Import Statistics.
  - Perform Usage Analysis.
  - Find changed SAP objects.
  - Perform remote comparison.
  - Calculate Adjustment Times.
  - Customer batch input analysis.
  - Analyze external subroutine calls.

- **Display**
  - Display and evaluate results.
System Landscape CDMC Upgrade/Change Impact Analysis Projects

CDMC Analysis Systems

CDMC Control System
Central Solution Manager system

CDMC Reference System/Reference Base
Test system Rel. ECC 6.0 or a Reference base content

QAS1
Rel. 4.7

QAS2
Rel. 4.6c

QAS3
Rel. 4.7

QAS4
Rel. ERP 5.0

Reference Base Content
Purpose:
1. Execute all project-related analyses (including selection of relevant objects)
2. Reflects the quality assurance system

Key activities:
1. Ensure that the analysis system contains the full repository of the production system

CDMC Reference System/Reference Base
Test system Rel. ECC 6.0 or a reference base content
System Landscape CDMC Upgrade/Change Impact Analysis Projects (3)

CDMC Analysis Systems

CDMC Reference System
Test system Rel. ECC 6.0 or a reference base content

Purpose:

- Provides upgrade-relevant information for a UCIA project
- Reflects an upgraded copy of production or any other upgrade test system with the specified target release

Key activities:

- Ensure you have an upgraded system with the target release in place
Objects covered

- Domains
- Data Elements
- Search helps
- Lock Objects
- Views
- Tables
- Function Modules
- Programs
- Classes

Determine impact of Changes

Compare version from Analysis System with version from Reference System/Reference Base

SAP objects referred by custom objects

Referred and changed

SAP objects changed during upgrade
Display Results of Upgrade/Change Impact Analysis

Upgrade / Change Impact Analysis Project 34524: Display Results

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Parts of CDMC

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- **Clearing Analysis**
  Use analysis of customer developments in an SAP system combined with an identification of potentially useless objects

- **Upgrade/Change Impact Analysis**
  Identification of potential consequences an upgrade can have on customer developments

- **Change and Transport Analysis**
  Use analysis of objects in a transport request by identifying the test scope and test coverage analysis
Phases of a Change and Transport System Analysis Project

Key activities

- **Project settings**
  - Define project landscape.
  - Determine Object Set

- **Collect**
  - Determine Modified Objects
  - Determine Enhancements
  - Customer and Ref SAP Objects

- **Analysis**
  - Test Scope Identification
  - Perform Environment Analysis
  - Test Coverage Analysis
  - Perform Remote Comparison

- **Display**
  - Display and evaluate results.
System Landscape CDMC Change and Transport System Analysis

**CDMC Analysis Systems**

- **QAS1** Rel. 4.7
- **QAS2** Rel. 4.6c
- **QAS3** Rel. 4.7
- **QAS4** Rel. ERP 5.0

**CDMC Control System**
Central Solution Manager system

**CDMC Target System**
Display Results of Change and Transport System Analysis
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Customer Experiences with CDMC

Consumer products industry

- 50% of customer developments identified as obsolete
- Planned to be used in upcoming upgrade projects

Automotive industry

- 30% of customer developments identified as obsolete
- Used during Support Package upgrades
- Planned to be used in upcoming upgrade projects and merge projects
## Value for customers

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>TRANSPARENCY FOR CUSTOMER OWN DEVELOPMENTS</strong></td>
<td>Verify with CDMC, which of your customer own developments are actually used in your productive environment and which of them are obsolete.</td>
</tr>
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<td><strong>ACCELERATED UPGRADE</strong></td>
<td>Check if customer developments would be affected by upgrading systems to higher releases and help to adapt them.</td>
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<td><strong>TRANSPARENT ESTIMATION</strong></td>
<td>Check and identify impact of changed SAP standard objects on custom development → effort estimation at an early time in change projects</td>
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<td><strong>REDUCED PROJECT DURATION</strong></td>
<td>Support IT projects, like system consolidation, by automatically identifying obsolete customer repository objects and reduce effort of adaptation.</td>
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<td><strong>BETTER TEST SCOPE MANAGEMENT</strong></td>
<td>New features like Change and Transport system can help to regularly identify the complete test scope due to incoming transport request across your project landscape.</td>
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Resulting in **REDUCED COST** while **INCREASING QUALITY** in customer developments as well as in consolidation and upgrade projects.
How To Get Started

SAP Custom Development Management Cockpit (CDMC)

**Shipment**

CDMC is enhanced with new features with the Solution Manager 7.1 Enterprise Edition

**Installation**

Tool installation via ST-PI on central solution manager system

Tool installation via ST-PI on all on all satellite systems that participate in a clearing analysis or upgrade/change impact analysis project
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Additional Information

Public Web:

http://service.sap.com/upgradetools
http://service.sap.com/enterprisedition
http://service.sap.com/rkt-solman
## Important SAP Notes

<table>
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<tr>
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<th>Title</th>
<th>Description</th>
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<tr>
<td>1348772</td>
<td>CDMC Corrections – Composite SAP Note</td>
<td>Information about all the corrections for an Support pack</td>
</tr>
<tr>
<td>1244713</td>
<td>Configuration of Custom Development Management cockpit</td>
<td>Information about how to install the Custom Development Management cockpit</td>
</tr>
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