Mass Update
SAP Solution Manager 7.1 SP12
July 2014
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Mass Update
SAP Solution Manager 7.1 SP12

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Summary

Mass update is a powerful tool for updating your managed systems configuration. It provides an overview of the overall status of each configuration step for selected managed systems. From the overview, you can navigate directly to the related custom and automatic steps in the guided procedure, and you can update the managed system configuration for multiple steps and multiple systems at once.

You create and maintain configuration templates that can be assigned to several systems of the same type.

Note:

- Mass update can only be used to update the configuration of systems and steps that have already been configured at least once. It cannot be used for the initial configuration of systems or steps that have the status Not Configured.
- Mass update currently supports ABAP and Java systems only.
- Mass update always runs in Full configuration mode.
Preparation and Authorization

- Implement SAP Note 2018016 to activate the Mass Update feature in the Managed System Configuration overview.

- The authorization object SM_SETUP with activity A8 is required to make the Mass Update menu item visible. This authorization is contained in the SAP role SAP_SM_BASIC_SETTINGS.

- The authorization object SM_MASS_UP is contained in the SAP role SAP_SM_MS_TMPL_UPDATE_ALL. A copy of this role needs to be assigned to users to maintain the configuration templates.

- The additional role SAP_SM_MS_TMPL_UPDATE_DIS can be assigned to users to display, but not edit, configuration templates.
Launching the Application

In the *Managed Systems Configuration* overview, select one or more systems, and then choose *Advanced Options → Mass Update*. 

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**SAP Solution Manager Configuration: Managed Systems Configuration**

In this step, you configure technical systems, technical scenarios (ABAP-Java Dual-Stack, SharePoint), standalone databases, and standalone hosts.

**Prerequisites**

- An automatic data supplier is active for each system, and sends data to the System Landscape Directory (SLD). (If the data supplier has been triggered system.)
- The connection between SLD and Landscape Management Database (LMDB) is working. (See SAP Solution Manager: Configuration → System Prepara)
- If a system is missing because no automatic data supplier can be used, you have created it manually in transaction LMDB. Only create technical syste
- The Technical Scenarios are created automatically. You can maintain Technical Scenarios in the Solution Manager Administration work center.
Overview: Configuration Status

*Mass Update* displays the overall status of each configuration step for the selected managed systems.
Overview: Message Logs

Select a system to display its message log in the details.

```
<table>
<thead>
<tr>
<th>System Status</th>
<th>Export</th>
<th>Refresh System Status</th>
<th>Configure</th>
<th>Maintain Template</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A00</td>
<td></td>
<td>Application Server ABAP</td>
<td>Min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A01</td>
<td></td>
<td>Application Server ABAP</td>
<td>Min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A12</td>
<td></td>
<td>Application Server ABAP</td>
<td>Full</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1L</td>
<td></td>
<td>Application Server Java</td>
<td>Full</td>
<td></td>
</tr>
</tbody>
</table>

Details of System: A00~ABAP

<table>
<thead>
<tr>
<th>Type</th>
<th>Activity</th>
<th>Message</th>
<th>Date</th>
<th>Time</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>Decide to setup Self-Monitoring</td>
<td>There is no production client maintained for the ABAP system</td>
<td>06.06.2014</td>
<td>17:01:44</td>
<td>C5168179</td>
</tr>
<tr>
<td>☐</td>
<td>Run Self-Diagnosis (recurrent)</td>
<td>There is no production client maintained for the ABAP system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐</td>
<td>Adjust HTTP Log Parameter</td>
<td>There is no production client maintained for the ABAP system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐</td>
<td>Maintain SAP Router Data</td>
<td>There is no production client maintained for the ABAP system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐</td>
<td>Decide to setup Self-Monitoring</td>
<td>There is no production client maintained for the ABAP system</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
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<td>There is no production client maintained for the ABAP system</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```
Explanation of Icons

Status Icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not performed.</td>
<td>Steps with this status <strong>cannot</strong> be updated with mass update.</td>
</tr>
<tr>
<td>Step performed successfully</td>
<td></td>
</tr>
<tr>
<td>Step performed with errors</td>
<td></td>
</tr>
<tr>
<td>Step performed with warnings</td>
<td></td>
</tr>
<tr>
<td>Not relevant</td>
<td>Step not relevant for the managed system type</td>
</tr>
</tbody>
</table>

Additional Icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Step contains activities that need updating</td>
</tr>
<tr>
<td></td>
<td>A user has left a comment on an activity in this step</td>
</tr>
</tbody>
</table>
Overview: Execution of Automatic Activities

The following steps can be executed without maintaining a template:

- Check Prerequisites
- Finalize Configuration (automatic activities only)
- Check Configuration

All other steps in the list are performed based on the entries in the configuration template assigned to the system.

Choose Maintain Template to configure these steps.
Template Maintenance

You can create, modify, and delete configuration templates for each system type.

The template can be configured for one or more steps. Each tab page corresponds to a configuration step.
To create a new template, proceed as follows:

1. Choose *Create New*.
2. Enter a unique name for the template.
3. Select the system type (ABAP or Java).
4. To set this template as the default for the selected system type, select the *Default* check box.
5. Choose *OK*.

The new template is displayed in the tree on the left side of the screen.

The following slides describe the parameters that can be customized for each step.
Template Maintenance: Edit Template

To edit the template, proceed as follows:

1. Select the template and choose **Edit**.
2. Choose the tab for the relevant configuration step.
3. Select the line for the parameter, and then choose **Change**.
4. Edit the value as desired. To go back to the default value for the parameter, choose **Reset**.
5. Save your changes.
Template Maintenance: Connect Managed System

This configuration is used to update RFCs for the managed system

- A **client** can be specified (otherwise all clients will be updated)
- **SAP Solution Manager and managed system administrators** can be specified (if left blank, they will be automatically retrieved from solman_setup storage)
- The **SAP Solution Manager host name** can be provided or calculated dynamically during execution of the step
- **Read, TMW, and Back RFCs** can be marked to be updated
- **Role upload** functionality can be used to upload the RFC roles from SAP Solution Manager to the managed system
- **The SAProuters** to the SAP Solution Manager and managed systems can be defined
Template Maintenance: Assign Diagnostic Agent

This configuration is used to update the assignment of diagnostics agents to each server (virtual host) on which managed systems are running.

- **Enable automatic assignment of agent:** Selecting this check box will trigger the automatic assignment of a diagnostics agent based on the host name (if an agent is not already assigned).

If you do not select this check box, you can omit the step from the template, as it will have no effect on the execution.
Template Maintenance: Enter System Parameters

This configuration is used to update the system parameters required to configure the managed system.

- **Introscope EM**: Specify the host name of the CA Introscope Manager that will be used. If this field is left blank, the host name already set in the Managed System Configuration will be used.

- **Load Balancer URL**: Corresponds to the host name of the managed system. It can be either specified or calculated dynamically during execution.

- **EXTRACTOR_LEVEL**: 1 = Collect configuration data and host-related metrics, 2 = Collect additional RCA Workload Analysis metrics, and 3 = Collect all RCA-related metrics. **Note**: To enable SAP Service Delivery on the systems, you must choose level 3.

- **Client**: Specify the client on which the monitoring will be activated. If the field is left blank, the one already set in Managed System Configuration will be used.

- **ABAP / Java Setup User credentials**: Provide the ABAP or Java Setup user. If this field is left blank, the one already set in the Managed System Configuration will be used.
Template Maintenance: Update Users

This configuration is used to update the roles assigned to users.

- Provide the user IDs of the users to be updated. If these fields are left blank, the users previously specified in the Managed System Configuration will be updated.
Mass Execution of Activities

Mass update allows you to trigger the execution of *Managed System Configuration* activities for one system or several systems at once. To trigger the mass execution as a batch job, proceed as follows:

1. Select the systems to update
2. Select the relevant template for each selected managed system
3. Choose *Configure*, and then choose the step to be executed. To trigger the execution of all steps, choose *All*. 
Mass Execution of Activities

The mass execution of activities is only possible under these conditions:

- The step must be relevant for the selected managed system
- The step must have been performed for the selected system at least once before
- The template assigned to the system must contain the configuration for the selected step

If these conditions are not met, the following types of error and warning messages may appear:

- Step Maintain RFCs Not Relevant For System A01~ABAP
- Step Assign Diagnostics Agent Not Relevant For System A01~ABAP
- Only update is allowed for step Check Configuration Finalize Configuration Enter System Parameters Maintain RFCs Check Prerequisites in system A00~ABAP.
- Template TEST2 in type ABAP is not configured for step Maintain Users
- Template TEST1 in type ABAP is not configured for step Maintain Users
Mass Execution of Activities

After the background job starts, a progress bar indicates the status of the mass execution. When the execution is completed, the statuses for the selected managed systems are updated in the overview.

- Remove this authorization from the user after the update.
- If there are errors during system update, update each system individually in the Managed System Configuration scenario.
Limitations

- You can only use mass update for systems that have already been configured. This initial version of the tool cannot be used to configure new systems.

- Mass update is only available for Java and ABAP systems. Databases are not in scope, so no changes to any database related activities (DB Connection credentials, DB Extractors, and IS EM host for Agents on standalone databases) are applicable.

- Mass update always runs configuration steps in Full mode, regardless of the configuration mode selected for the managed system.

- Not all parameters and values of the regular MSC guided procedure can be updated with the mass update tool.

- Mass update does not support user creation on the managed systems. You can only update roles for existing users.
Thank You!