Retrofit
Dual Landscape Synchronization

SAP Active Global Support
Retrofit: The Basic Idea

- Customers often have different development systems for maintenance (production support) and for long term implementation projects.
- This ensures that the implementation team and the maintenance team can work independently and bugfixes can always be done in a close to production environment.
- However at certain points in time the changes from the maintenance landscape must be re-applied in the implementation landscape in order to keep the two development systems in sync. This process is called “Retrofit”.
- While “Retrofit” was a time consuming and error prone manual activity in the past, with the SAP Solution Manager this task can be automated.
Retrofit Categories

Auto Import

- If the objects that were changed in the maintenance landscape have not been changed in parallel in the implementation landscape, they can be transferred automatically.
- For this the Retrofit tool creates a transport of copies and sends it to the implementation landscape. This transport contains all objects with no conflict.

SAP Correction Workbench

- If a workbench object was changed both in the maintenance and in the implementation landscape, the two versions can be adjusted semi-automatically in a split-screen editor. For this features of the SAP Correction Workbench are used.

BC Sets

- If a customizing setting was changed both in the maintenance and in the implementation landscape, the version in the maintenance landscape is recorded in a BC Set. It can then be compared with the entry in the implementation landscape and adjusted accordingly.

Manual Retrofit

- This only has to be done for objects with conflicts, that have no tool support.
Retrofit Features

For each object the right Retrofit method is determined automatically

- Retrofit is performed on object level. If one object of a transport request must be retrofitted manually the other objects can still be transferred automatically.

Conflicts between the Maintenance and Implementation Landscape are identified

- The Cross System Object Lock allows to identify conflicts between the maintenance and implementation landscape. These are objects that were changed in both landscape.
- All other objects without conflict can be transferred with the auto-import method

Additional Features

- All Retrofit activities are logged and can be reviewed at any time
- Downgrade protection by controlling the retrofit sequence: If an object was changed several times, the changes must be retrofitted in the correct sequence.
Retrofit Process Overview

1. Create Retrofit Data at Release Time of Transport Request

2. Apply Retrofit Data at Retrofit Time to the Implementation Landscape

3. Adjust Originality of Imported Objects and change Transport Layer of transported Packages (performed automatically by the retrofit tool)
   Imported Objects are added to Transport Request of Implementation Project, which has been defined in the Retrofit Tool
Create two logical components:

<table>
<thead>
<tr>
<th>Logical Component</th>
<th>Development System</th>
<th>Quality Assurance System</th>
<th>Production System</th>
<th>Retrofit System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z_ERP_MAINT</td>
<td>MNT:100</td>
<td>QAS:100</td>
<td>PRD:100</td>
<td>DEV:100</td>
</tr>
<tr>
<td>Z_ERP_IMPL</td>
<td>DEV:100</td>
<td>TST:100</td>
<td>PRD:100</td>
<td></td>
</tr>
</tbody>
</table>

Implementation Landscape:
- DEV
- TST

Maintenance Landscape:
- MNT
- QAS
- PRD

Retrofit
Start Retrofit from the Change Document

The Retrofit for an Urgent Change can be started directly from the change document when the Urgent Change is in status “Authorized for Import”.

The Retrofit for Normal Change can be started directly from the change document when the Normal Change has been tested successfully.

If the Retrofit is started from the Change Document you can only process the transport requests that belong to this Change Document.
Start Retrofit from the Tasklist

The Retrofit can also be started from the tasklist of a maintenance cycle. If the Retrofit is started from the tasklist, you see all transport requests of this maintenance cycle.
The Retrofit Screen

1) Select a Target Request for the Retrofit (Retrofit Request)
   - This request must be created in the implementation landscape before.

2) Start the Retrofit with the appropriate Retrofit Category
   - Select „Auto-Import“, „Transfer with SCWB“ or „Transfer with BC Set“
The Retrofit Screen – Additional Functions

- The button Additional Functions allows to perform various tasks, e.g. to display the Retrofit logs or to indicate that a transport request has been retrofitted manually.
Retrofit with SAP Correction Workbench

The image shows a screenshot of the Confirm Changes window in SAP Correction Workbench. The window displays a table with columns for Status, Object, and Message Text. The highlighted row shows the object REPS ZTEST4 with a message indicating that changes are only copied incompletely; see detail display.

The Confirm Changes table contains rows with the following items:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Context block</td>
<td></td>
<td></td>
<td>Insert block (not inserted)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REPORT ZTEST4</td>
<td></td>
<td></td>
<td>write 'Change in SKD'.</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>write 'Change in SKD'.</td>
<td></td>
<td></td>
<td>Insert block (not inserted)</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>write 'Change in HRT'.</td>
<td></td>
<td></td>
<td>write 'Change in SKD'.</td>
</tr>
</tbody>
</table>

A Retrofit Status Query window is also shown, indicating that the retrofit is successfully finished for workbench objects.

Yes  No  Cancel
Retrofit with BC Sets

<table>
<thead>
<tr>
<th>BC Set</th>
<th>Short Text</th>
<th>Can BC Set be ov</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZCHARM_M00000015_TT7K900053</td>
<td>Generated BC Set ZCHARM_M00000015_TT7K900053</td>
<td>BC Set can be ov</td>
</tr>
</tbody>
</table>

Retrofit Status Query

Retrofit successfully finished for customizing objects?

Yes  No  Cancel
Thank You!