
**Repository Replicator
User Guide
8.6**

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Introduction

This document serves as a guide for configuring and using the Repository Replicator for use of the Gold Client Solution.

Additional security is built into the tool so when Gold Client is installed in production the import functionality and selective deletion functionality is disabled.

Gold Client Solutions Repository Replicator

Overview

Gold Client Solutions has added the ability to realign SAP Repository objects using the Object Alignment feature in the Repository Replicator. The Repository in SAP systems are all client independent objects from Programs, Tables, Data Elements, among many other objects. With this feature a user can execute the compare from a source SAP system and target a SAP system that is on the same SAP version and support pack or enhancement pack level to realign objects that have been misaligned or are out of sync. The objects will be identified that are different from the source and target systems and the user has the ability to add the objects to a transport to export from the source and import into the target.

An example for use would be a SAP sandbox system that transports have not been applied to in a long time and instead of identifying which transports that contain repository objects that are missing or instead of conducting a database copy this feature can be used to have the repository realigned quickly and easily.

Repository Replicator Usage

The Object Alignment feature can be accessed from the main screen of Gold Client Solutions (Fig 1.0). By selecting the Object Alignment button the Repository Replicator main screen will be displayed (Fig 1.1).

Gold Client Solutions has an authorization object which can be used to allow certain users access to this feature.

Figure 1.0

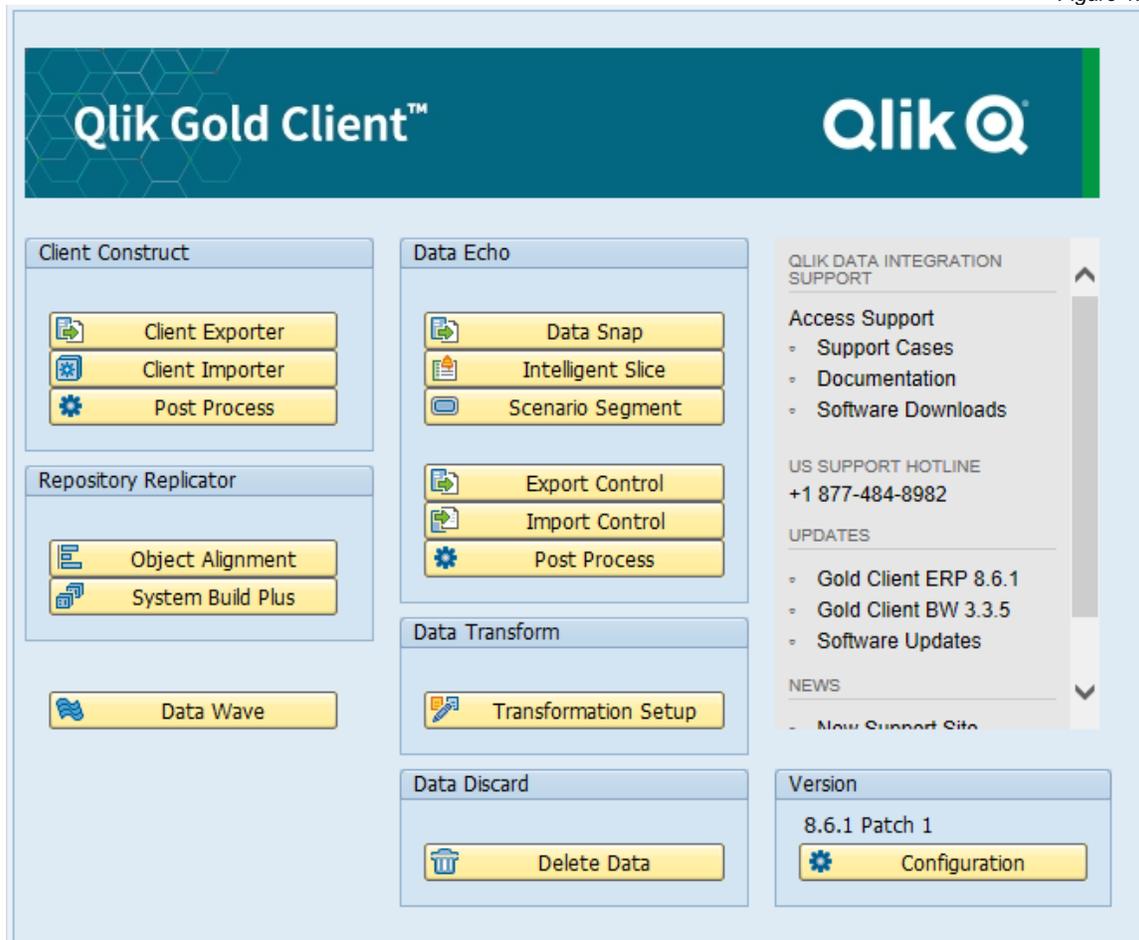
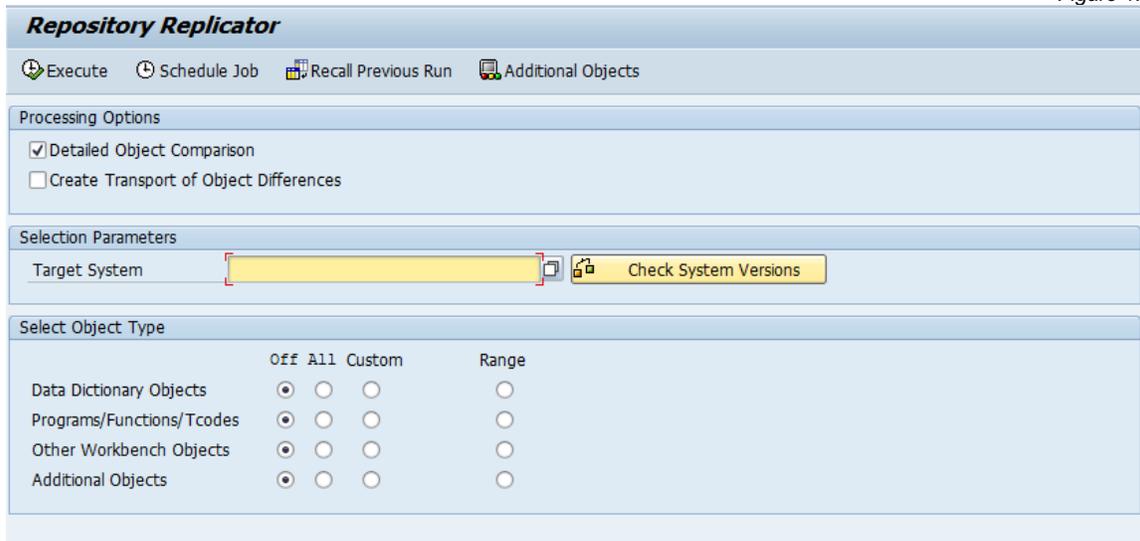
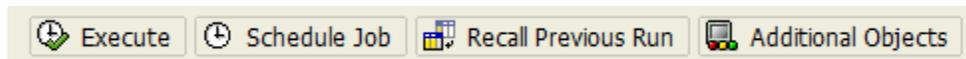


Figure 1.1



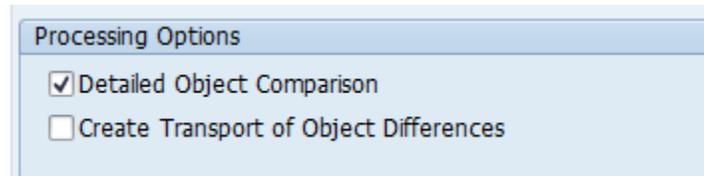
The execution options are located on the toolbar (Fig 1.2).

Figure 1.2



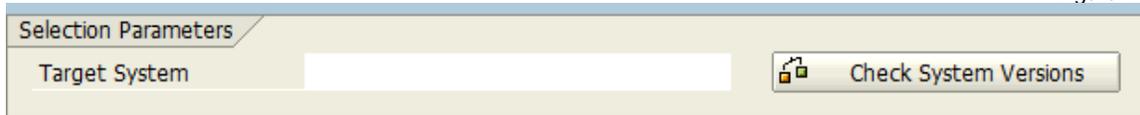
The top section of the screen shows which processing options are available (Fig 1.3).

Figure 1.3



The selection parameters are used to identify the target SAP system to compare or realign (Fig 1.4).

Figure 1.4



The last selection is used to identify the objects in which to compare or realign (Fig 1.5).

Figure 1.5

The screenshot shows a dialog box titled "Select Object Type". It contains four rows of object categories, each with four radio button options: "Off", "All", "Custom", and "Range". The "Off" option is selected for all categories.

	Off	All	Custom	Range
Data Dictionary Objects	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programs/Functions/Tcodes	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Workbench Objects	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Additional Objects	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Repository Replicator Execution Options

What follows are some details about the various execution options which are available (Fig 1.6).



Figure 1.6

Execute will initiate the process using the selected options within the *Select Object Type* section as a foreground process and will return the object results in a window (Fig 1.61) that allows them to be selected and added to a transport as needed.

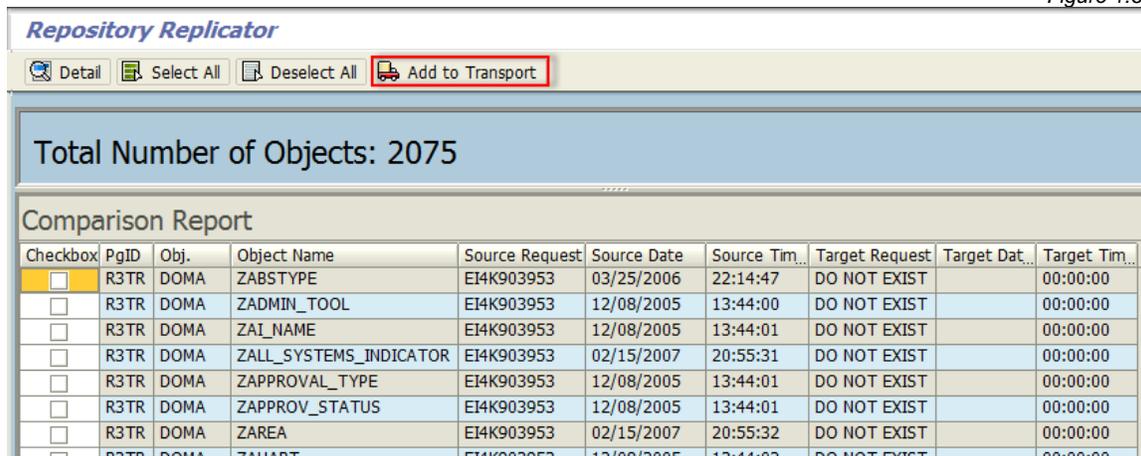


Figure 1.61

The **Schedule Job** option has the ability to schedule the job at a certain time or immediately in a background process. This background job can then be monitored via SAP t-code SM37.

When using the Schedule Job option, the results can only be retrieved using the **Recall Previous Run** option; however if the "Create Transport of Object Differences" processing option is selected (Fig 1.62), the Recall Previous Run button cannot be used to view the Repository Replicator comparison report.

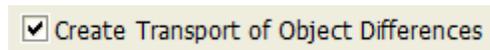
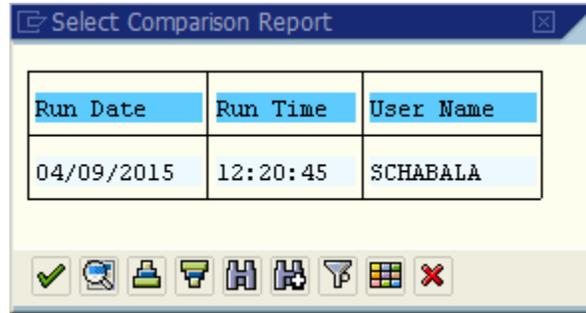


Figure 1.62

When selecting the **Recall Previous Run** option, a window appears and you can choose which comparison run to recall (Fig 1.63). Selecting one of the previous runs will display the object results in a window (Fig 1.61) that allows them to be selected and added to a transport as needed.

Figure 1.63



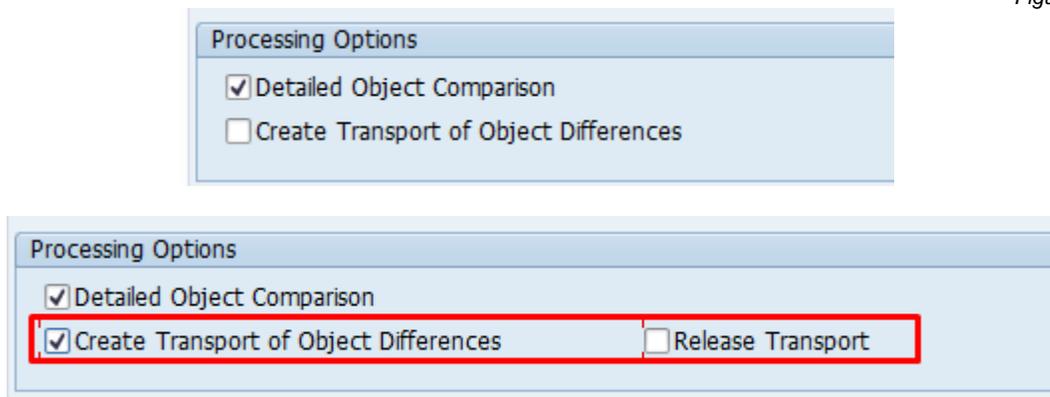
Run Date	Run Time	User Name
04/09/2015	12:20:45	SCHABALA

The objects in a SAP repository are identified within the *Select Object Type* section of the screen. The more common SAP repository objects are contained in the first three areas: Data Dictionary Objects, Programs/Functions/Tcodes, and Other Workbench Objects. The **Additional Objects** button located on the toolbar contains a list of all other repository objects that are not covered within the three primary selections.

Repository Replicator processing options

Various processing options are available (Fig 1.7). The default settings has the first option selected so make changes prior to executing the program. If option Create Transport of Object Differences is selected a new option will show up to release transport.

Figure 1.7



The **Detailed Object Comparison** option (when selected) will conduct a line by line comparison of those repository objects selected by the user. The execution time may be long depending on how many objects were selected for the comparison.

The **Create Transport of Object Differences** option (when selected) will automatically create a transport with the objects that have been identified as different. If this option is not selected, the user will need to manually select objects with which to create a transport once the comparison process has completed.

The **Release Transport** option (when selected) will automatically release the transport when created. If not selected, the transport will need to be manually released once it has been created.

Repository Replicator selection parameters

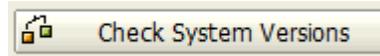
The selection parameters section is used to identify the target system to compare and realign the repository objects. The drop down selection will retrieve all RFC destinations that are defined in standard SAP transaction SM59 (Fig 1.8).

Figure 1.8



The Check System Versions button (Fig 1.9) will check the RFC setting that was selected and also compare the SAP versions and support pack / enhancement pack levels; the results of the comparison will be displayed.

Figure 1.9



The pre-requisite requirement for Repository Replicator is that the source and target SAP systems will have to be on the same SAP release and support pack and/or enhancement pack levels. If the versions or support pack levels of the two systems are different, a message will appear preventing any comparison (Fig 1.10).

Figure 1.10



Repository Replicator select object type options

The Select Object Type section provides the categories of all repository objects supported with the Repository Replicator.

When the 'All' radio button is selected all objects will be executed for that specific Object Type. If the 'Custom' radio button is selected then only custom objects (Y*, Z*) will be compared. To select a specific object or range of objects, select the 'Range' radio button (Fig 2.0).

Figure 2.0

Select Object Type	Off	All	Custom	Range
Data Dictionary Objects	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programs/Functions/Tcodes	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Workbench Objects	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Additional Objects	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Data Dictionary Objects have a number of various options for selection (Fig 2.1)

Figure 2.1

Select Object Type	Off	All	Custom	Range
Data Dictionary Objects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
<input checked="" type="checkbox"/> Data Domain <input checked="" type="checkbox"/> Data Element <input checked="" type="checkbox"/> Tables <input checked="" type="checkbox"/> Views <input checked="" type="checkbox"/> Table Types <input checked="" type="checkbox"/> Search Help <input checked="" type="checkbox"/> Lock Objects <input checked="" type="checkbox"/> View Cluster				
Programs/Functions/Tcodes	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Workbench Objects	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Additional Objects	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Programs/Functions/Tcodes have several options available for object selection (Fig 2.2)

Figure 2.2

The screenshot shows a dialog box titled "Select Object Type". At the top, there are four radio buttons labeled "Off", "All", "Custom", and "Range". Below this, there are two rows of radio buttons: "Data Dictionary Objects" (with "Off" selected) and "Programs/Functions/Tcodes" (with "All" selected). To the right of the "Programs/Functions/Tcodes" row is a text input field and a right-pointing arrow button. Below these are four rows, each with a checked checkbox and a text input field: "Programs", "Function Groups", "Class", and "Transaction Codes". Each row is followed by the word "to" and another text input field, with a right-pointing arrow button to the right of each. At the bottom, there are two rows of radio buttons: "Other Workbench Objects" (with "Off" selected) and "Additional Objects" (with "Off" selected).

Other Workbench Objects have several options available for object selection (Fig 2.3)

Figure 2.3

The screenshot shows a dialog box titled "Select Object Type". At the top, there are four radio buttons labeled "Off", "All", "Custom", and "Range". Below this, there are three rows of radio buttons: "Data Dictionary Objects" (with "Off" selected), "Programs/Functions/Tcodes" (with "Off" selected), and "Other Workbench Objects" (with "All" selected). To the right of the "Other Workbench Objects" row is a text input field and a right-pointing arrow button. Below these are four rows, each with a checked checkbox and a text input field: "Namespace", "Transport Objects", "Message Class", and "SPA/GPA Parameters". Each row is followed by the word "to" and another text input field, with a right-pointing arrow button to the right of each. At the bottom, there is one row of radio buttons: "Additional Objects" (with "Off" selected).

The **Additional Objects** icon located on the toolbar can also be selected in those cases when other repository objects need to be used for the comparison (Fig 2.4). Selecting this icon takes the user to the 'Maintain Additional Objects' screen (Fig 2.5).

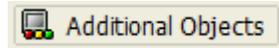


Figure 2.4

 A screenshot of the 'Maintain Additional Objects' screen. It features a title bar, a toolbar with icons for search, print, refresh, save, and 'Select All'/'Deselect All', and a table with columns for 'Obj.', 'Short text', and 'Active'.

Obj.	Short text	Active
ACID	Checkpoint Group	<input type="checkbox"/>
ACL	Archiving Class	<input type="checkbox"/>
ALID	Transport Object for Alternative ID Types	<input type="checkbox"/>
ANSE	Analytical Service	<input type="checkbox"/>
ANST	Analytical service types	<input type="checkbox"/>
AOBJ	Archiving Object	<input type="checkbox"/>
APPL	Application Class	<input type="checkbox"/>
AQBG	ABAP Query: User group	<input type="checkbox"/>
AQHT	SAP Query: HTML Templates	<input type="checkbox"/>
AQQU	ABAP Query: Query	<input type="checkbox"/>
AQSG	ABAP Query: Functional area	<input type="checkbox"/>
AQTR	SAP Query: HTML Templates (raw)	<input type="checkbox"/>
AQXI	ABAP Query: Additional functions	<input type="checkbox"/>
ASFC	SAP AS: Field Catalog	<input type="checkbox"/>
ASIS	SAP AS: Archiving Information Structure	<input type="checkbox"/>
ATRT	Data Types for Attributes	<input type="checkbox"/>

Figure 2.5

Support Information

Qlik Analytics (ISR) Ltd. can be contacted either by telephone or via email. Any support related issue regarding problems with or use of the Gold Client software and process can be reported for resolution.

If our offices are closed, or staff is unable to directly respond to a support request, we will respond within 24 hours of the initial call. Problems related to the export or import processing may require code enhancements. If a code enhancement or fix is required, resolution time may vary.

As per the maintenance agreement, any repairs or enhancements to the Gold Client software will immediately be deployed to all customers up-to-date with their maintenance contract. It is the choice of the customer as to if and when such enhancements are implemented. In addition, customers may request a planning session with Qlik to review changes in the software and how the changes might impact their environment.

We can also be contacted to discuss application or feasibility of using the Gold Client process to resolve a current challenge the project team faces. When this is required, a planning session can be scheduled in advance to ensure proper participation by both Qlik and the client.

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