
**How to Build a Target Client Using a
Repeatable Process**

8.7

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Introduction

This user guide provides the necessary steps for creating a new target client – or for refreshing an existing target client – so that the process can be easily repeated as often as required.

The document starts out by providing a bulleted list of tasks that need to be completed. The core part of this document describes each of these tasks in detail so that once complete should result in a client that contains SAP customizing, user master, and all master data from a source system such as Production. Another section outlines additional options that can be pursued when needed such as copying some degree of transactional data, and copying the user master from a system other than Production.

The content in this document is organized into logical sections and should be completed in the sequence in which they are listed. At the start of each section are Gold Client self-help resources that may be valuable for the user to complete the steps in each section. A strategy for completing the steps more quickly and any dependencies may also be documented when warranted. Additionally, for planning purposes, some steps will also list an estimated amount of time that is typically required to complete the task.

For most organizations, the bulk of the process outlined in this document will be performed by Basis team members as they are likely to be more familiar with the various tasks and have the proper authorizations.

If your organization feels the need to vary from the recommended processes documented here, freely contact the Qlik team to discuss alternative approaches and potential impacts.

Summary of Tasks

This summary provides a bulleted list of tasks that need to be performed. Leverage the pages that follow for how-to details on completing each task.

1. In the Target System, create a new client using transaction SCC4 (5 minutes), or delete the selected client using transaction SCC5 (may take several hours depending on client database size). System value. When building a new client, be sure to assign a Logical System value.
2. From the selected Source Client, run Configuration and User Export using transaction SCC8 with export profile **SAP_UCSV**. (1 - 2 hours)
3. After successful Source Client configuration export, import the configuration into the Target Client via STMS. (1 - 3 hours)
4. After configuration import completion, run import post-processing in the Target Client using transaction SCC7 in background mode. (30 minutes – 1 hour)
5. Ensure that there is sufficient space available in the Target System. Consult with Qlik for recommendations on space.
6. Export the master data from the Source Client using the Gold Client “Client Exporter” function.
7. Import the Master Data into the Target Client using the Gold Client “Client Importer” function.
8. If Transactional Data is needed, export the appropriate subsets from the Source Client.
9. Import the Transactional Data subsets into the Target Client.
10. Manage number ranges in the Target Client by executing the ‘Number Range Utility’ to artificially increase the current numbers.

Copying SAP Customizing and User Master

Since it is possible to use Gold Client to create a brand-new client or to refresh an existing client, this section has been divided into two different processes since the steps for each process have some uniqueness. Use only the process that aligns with your specific requirement. The process for creating a new client is listed first; the process for refreshing an existing client is listed second.

Copying SAP Customizing and User Master to a New Client

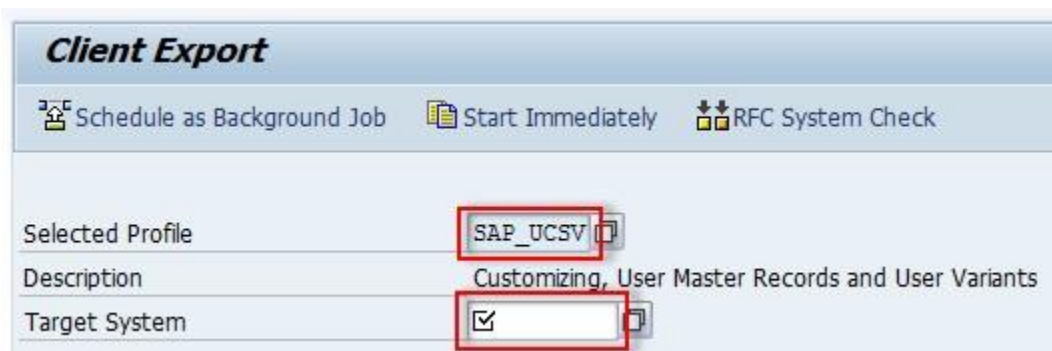
Gold Client Resources: [*Client Construct 8.6 User Guide*](#)

Time-saving Strategy: Steps 1 and 2 can be performed in parallel but since step 2 takes only a few minutes, any real time-savings is negligible

Dependencies: Step 3 is dependent upon the completion of both steps 1 and 2, and Step 4 is dependent upon the completion of step 3

1. From the selected Source system (typically Production), it is necessary to export the SAP Customizing and User Master export; this task can be completed using either standard SAP or Gold Client (*estimated time: 1 - 2 hours*):
 - a. Via t-code SCC8; be sure to select only profile **SAP_UCSV** and enter the appropriate Target System (Fig. 1.0)

Figure 1.0



Client Export	
Schedule as Background Job Start Immediately RFC System Check	
Selected Profile	SAP_UCSV
Description	Customizing, User Master Records and User Variants
Target System	☒

- b. Via Gold Client's Client Exporter function; be sure to select the 'Transport Request' option in the Select Processing Method section, and the 'User Masters and Configuration' checkboxes within the Export Scope section; then select 'Execute in Foreground' (Fig. 1.1); after execution, an output is displayed showing the job name that was generated (Fig. 1.2).

Note: It is not possible to release transports in background so foreground execution is required

Figure 1.1

Client Exporter

Execute in Foreground Schedule Job Data Transform Job Monitor

Select Processing Method

☒ Transport Request

☐ R3Trans Method

☐ Direct Export

Export Scope

☐ Master Data

☒ User Masters

☒ Configuration

Data Selection Criteria

☒ All Master Data Type

☐ Select Data Type(s)

Source

Source Client 800

Target

Target System

Processing Options

Release and Export ☐

Passport File /usr/sap/trans/gold.ei4.800.20140415162438

Figure 1.2

Client Exporter

Execute in Foreground Schedule Job Data Transform Job Monitor

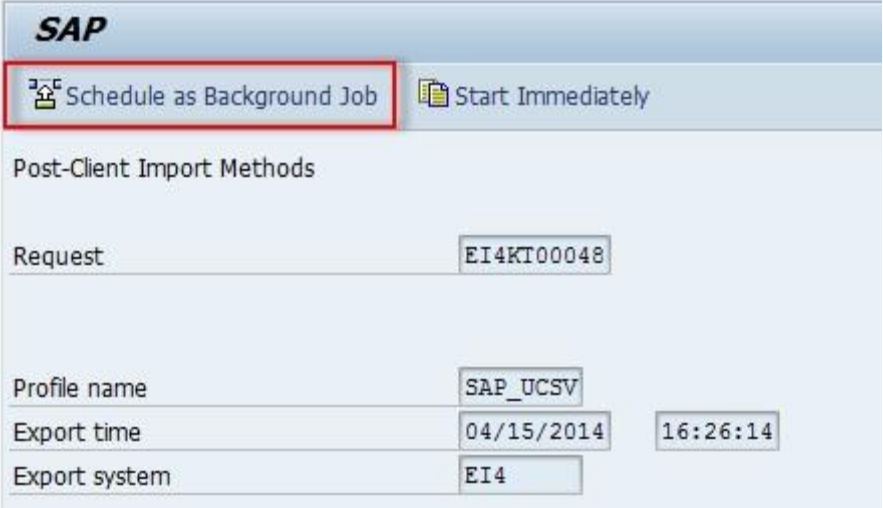
Gold Client - Client Construct 1

Summary for Client Export

Client export started via job CLIENTEXPORT 800:SAP_UCSV

2. In the Target system, go to t-code SCC4 to define the new client; be sure to assign a Logical System as well (*estimated time: 5 minutes*)
3. Once the Customizing and User Master export job has completed successfully (step 1), and the Target client has been defined (step 2), add the transports that were generated from the export process into the Target system's queue via t-code STMS and then initialize the import into the new client. (*estimated time: 1 - 3 hours*)
4. Once the Customizing and User Master import has completed successfully (step 3), **it is critical** to execute the import post-processing program in the Target client via t-code SCC7; it is recommended that the program be executed as a background job (Fig. 1.3). (*estimated time: 30 minutes – 1 hour*)

Figure 1.3



SAP

Post-Client Import Methods

Request

Profile name

Export time

Export system

If all steps have been completed successfully, move to the next process located in the section titled 'Exporting and Importing Master Data'.

Copying SAP Customizing and User Master to an **Existing** Client

Gold Client Resources: *Client Construct 8.6 User Guide*

Time-saving Strategy: Steps 1 and 2 can be performed in parallel since they will typically occur in different systems

Dependencies: Step 3 is dependent upon the completion of both steps 1 and 2, and Step 4 is dependent upon the completion of step 3

1. In the Target system, go to t-code SCC5 to initialize the client deletion process
(*estimated time: may take several hours depending on client database size*)

Important note: It is possible to shorten the length of time it may take to delete the client; **however, the actions listed below should only be performed if the Target client is the only client in the Target system since all clients in the system would be impacted by taking these actions.** To save time, consider doing one or both of the following:

- (a) Truncate the 50-100 largest Application tables
- (b) Disable archive logging

2. From the selected Source system (typically Production), it is necessary to export the SAP Customizing and User Master export; this task can be completed using either standard SAP or Gold Client (*estimated time: 1 - 2 hours*):

- a. Via t-code SCC8; be sure to select only profile **SAP_UCSV** (Fig. 2.0)

Figure 2.0

- b. Via Gold Client's Client Exporter function; be sure to select the Transport Request option in the 'Select Processing Method' section, and the User Masters and Configuration checkboxes within the 'Export Scope' section; then select 'Execute in Foreground' (Fig. 2.1); after execution, an output is displayed showing the job name that was generated (Fig. 2.2)

Note: It is not possible to release transports in background so foreground execution is required

Figure 2.1

Client Exporter

Execute in Foreground Schedule Job Data Transform Job Monitor

Select Processing Method

☒ Transport Request

☐ R3Trans Method

☐ Direct Export

Export Scope

☐ Master Data

☒ User Masters

☒ Configuration

Data Selection Criteria

☒ All Master Data Type

☐ Select Data Type(s)

Source

Source Client 800

Target

Target System

Processing Options

Release and Export ☐

Passport File /usr/sap/trans/gold.e#4.800.20140415162438

Figure 2.2

Client Exporter

Execute in Foreground Schedule Job Data Transform Job Monitor

Gold Client - Client Construct 1

Summary for Client Export

Client export started via job CLIENTEXPORT 800:SAP_UCSV

3. Once the Target client has been deleted (step 1), and the Customizing and User Master export job has completed successfully (step 2), add the transports that were generated from the export process into the Target system's queue via t-code STMS and then initialize the import into the new client. (*estimated time: 1 - 3 hours*)
4. Once the Customizing and User Master import has completed successfully (step 3), **it is critical** to execute the import post-processing program in the Target client via t-code SCC7; it is recommended that the program be executed as a background job (Fig. 2.3). (*estimated time: 30 minutes – 1 hour*)

Figure 2.3

The screenshot shows the SAP 'Schedule as Background Job' dialog box. The title bar is 'SAP'. Below the title bar, there are two buttons: 'Schedule as Background Job' (highlighted with a red rectangle) and 'Start Immediately'. Below the buttons, the text 'Post-Client Import Methods' is displayed. The dialog contains several input fields: 'Request' with the value 'EI4KT00048', 'Profile name' with the value 'SAP_UCSV', 'Export time' with the value '04/15/2014' and a time field '16:26:14', and 'Export system' with the value 'EI4'.

Post-Client Import Methods	
Request	EI4KT00048
Profile name	SAP_UCSV
Export time	04/15/2014 16:26:14
Export system	EI4

If all steps have been completed successfully, move to the next process located in the section titled 'Exporting and Importing Master Data'.

Exporting and Importing Master Data

Gold Client Resources: [Client Construct 8.6 User Guide](#)

Time-saving Strategy: none; the process is essentially linear

Dependencies: Step 3 is dependent upon both Step 1 and Step 2 within this process, as well as the Post-processing step (SCC7) from the preceding section

1. It is important to ensure that there is sufficient space available in the Target System to accommodate the mass load of master data. If space is lacking, the imports would likely fail at some point resulting in disruptions to the process and possibly creating some additional work to subsequently complete the data load. If necessary, consult with the Qlik team for recommendations on space.
2. Initialize the master data export from the Source system (typically Production) using the Gold Client 'Client Exporter' function. Per Qlik's best practice recommendation, select the '**Direct Export**' processing method since it is the most efficient (Fig. 3.0). It is also Qlik's best practice recommendation to copy all master data so be sure that the 'All Master Data Type' radio button is selected (the default setting). Initiate the export by selecting the 'Schedule Job' button (Fig. 3.0). In the child window that opens, enter a relevant job description, select the 'Parallel Processing' option, and then select 'Accept'. A message should appear showing the job name that was generated.

Notes: Your organization could use a different processing method when needed. For more details regarding these options, reference the [Client Construct 8.6 User Guide](#). The processing method used to export the data must be the same method used to import the data as the various processes are not interchangeable.

Figure 3.0

The screenshot shows the 'Client Exporter' dialog box with the following settings:

- Buttons:** 'Execute in Foreground', 'Schedule Job' (highlighted with a red box), 'Data Transform', and 'Job Monitor'.
- Select Processing Method:**
 - ☐ Transport Request
 - ☐ R3Trans Method
 - ☒ Direct Export (highlighted with a red box)
- Export Scope:**
 - ☒ Master Data
- Data Selection Criteria:**
 - ☒ All Master Data Type (highlighted with a red box)
 - ☐ Select Data Type(s)

- Once the master data export process is complete, log into the target client and initialize the master data import using the Gold Client 'Client Importer' function. Be sure to select the 'Direct Input' processing method; the screen will refresh accordingly. Tick the 'Select' checkbox for the relevant export and initiate the import by selecting the 'Schedule Job' button (Fig. 3.1). In the child window that opens, enter a relevant job description, select the 'Parallel Processing' option, and then select 'Accept'. A message should appear showing the job name that was generated.

Important notes:

- Prior to importing the master data in the Target client, **be sure that the Post-Processing activity** (t-code SCC7) **completed successfully**; if not completed successfully and data is imported, it's possible that the client would have to be deleted and rebuilt
- Consider turning off or otherwise monitoring archive logs to ensure that they do not fill up; if the space reserved for archive logs fills up then the import process may fail at some point resulting in disruptions to the process and possibly creating some additional work to subsequently complete the process

Figure 3.1

The screenshot shows the 'Client Importer' window. At the top, there is a toolbar with buttons: 'Execute in Foreground', 'Schedule Job' (highlighted with a red box), 'Sizing Report', 'Conflicting Data Report', 'Job Monitor', 'Delete Files', and 'Adjust Export ID'. Below the toolbar, the 'Select Processing Method' section has three radio buttons: 'Transport Request', 'R3Trans Method', and 'Direct Input' (highlighted with a red box). At the bottom, there is a table with columns: 'Select', 'Export ID', 'Owner', 'Source Sy...', 'Source Cli...', 'Export Description', 'Created On', and 'Create Time'. The table contains two rows of data, both with 'Select' checkboxes highlighted by red boxes.

Select	Export ID	Owner	Source Sy...	Source Cli...	Export Description	Created On	Create Time
☐	1080	GCBASISUSER	GCT	800	Client Construct: Direct Export	06/04/2019	15:52:18
☐	1079	GCBASISUSER	GCT	800	Client Construct: Direct Export	06/04/2019	15:51:49

Once the above steps have been completed successfully, move to the next process located in the section titled 'Managing Number Ranges'.

Managing Number Ranges

Gold Client Resources: [*Number Range Utility 8.6 User Guide*](#)

This step may seem minor but not executing it can have some **important and negative consequences** for your organization's Application Team. The sole purpose of executing the Number Range utility is to provide a buffer between the data that may be copied from the Source client into the Target client and the natively generated data created in the Target client. Without this buffer, it's very possible that conflicts will occur, and short dumps could be generated because the system tries to unknowingly create duplicate records in the database.

1. In the Target client, execute the Number Range utility (Fig. 4.0); refer to the user guide for any additional details that are needed to execute the program

Note: Basis team members may not have the clarity to know what percent to increase the number ranges and so dialogue may need to occur with the Application teams to ensure that everyone is in agreement; however, the Qlik team's best practice recommendation is an increase that falls within the range of 5-20% since increasing the buffer too high may cause unforeseen issues.

Figure 4.0

Number Range Utility

☒ Execute

Processing Options

☒ Summary Report

☐ Update Database

Action to Number Range(s)

Increase by % ☒

Selection Criteria

☒ All Number Range objects

☐ Select Number Range objects

Once this step has been performed, the process for creating a “baseline” client is complete.

Optional Processes

Now that the new Target client has been successfully created with SAP Customizing, User Master, and all master data, and the Number Range utility has been executed, it's possible that some additional processing is required, and relevant details are documented here.

Copying Transactional Data

Gold Client Resources: [Data Echo 8.6 User Guide](#), [Gold Client Customer Use Cases](#)

If the Target client requires that some transactional data be copied, this process can be completed now that the baseline client has been built.

Application Team members (Functional Analysts, ABAP Developers) will normally have some idea as to what transactional data needs to be copied and so it is at this point when they typically engage in the client-build process. Even if these team members do not have authorization to perform the actual data exports and imports, they should ideally be allowed to create the scenarios that define what data will be copied. Basis team members may then need to execute the exports and imports.

The [Gold Client Customer Use Cases](#) document provides insight into various uses of Gold Client but since the most typical process when creating a new client is to copy a time slice of data, this process is outlined below. The Intelligent Slice function is the most suitable function for creating the necessary Scenarios, Export Control is used to initiate the exports, and then Import Control is used to initiate the imports (unless the auto-import trigger is used at the time of export).

1. In the Source system, go to ZGOLD > Intelligent Slice
2. Input the relevant date range and any additional criteria as needed; execute (Fig. 5.0)
3. In the next window, select which data types need to have Scenarios created so that the data can be copied (Fig. 5.1)
 - a. Be mindful that the focus should be on transactional data types since all master data has already been copied to the Target client; you can select master data types but understand that you may be copying data redundantly in that case
4. The system will respond with a message indicating which Export ID was created (Fig. 5.2)
5. Go to ZGOLD > Export Control to locate the Export ID and to initialize the export processes for the Scenarios that were generated by Intelligent Slice (Fig. 5.3)

6. Once the imports are complete, log into the Target client and go to ZGOLD > Import Control to locate the Export ID and initiate import processing

Figure 5.0

Intelligent Slice

 **Execute**

Export ID

Description ☒

Data Selection Criteria

Date Range		to		
Document Type		to		
Order Type (Purchasing)		to		
Company Code		to		
Fiscal Year		to		
Material		to		
Shipping Point/Receiving Pt		to		
Plant		to		
Sales Organization		to		
Purch. Organization		to		
Personnel number		to		
Document Number		to		

Figure 5.1

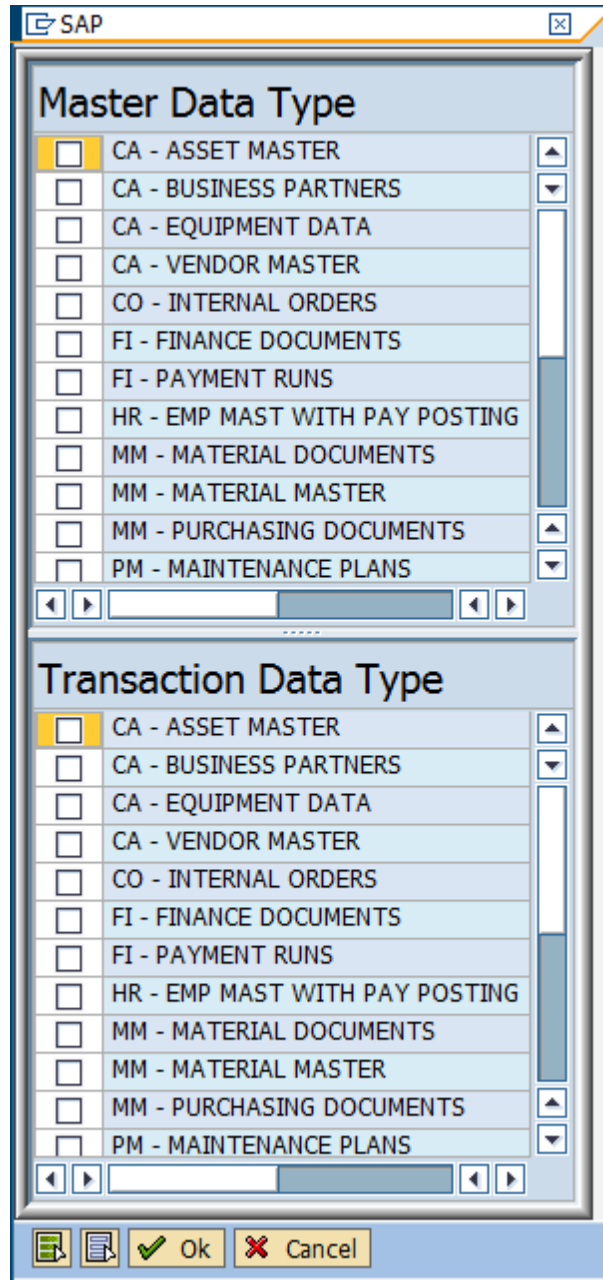


Figure 5.2

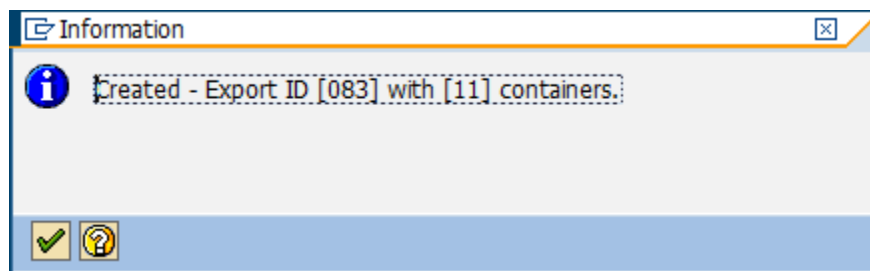


Figure 5.3

Export Control

Execute in Foreground
 Schedule Jobs
 Import Options
 Subset Sync
 Data Transform
 Data Exclusions

Export ID	0008	Description	870 testing
Created On	12/01/2020	Created By	SGEORGE

Refresh
 Add Container
 Delete Container
 Job Monitor

Select	Container	Data Type	Sc.Num	Type	Status	Rec Ct	Changed On	Last Run Date
☐	0001	CA - ASSET MASTER	001	Intelligent ...		6	12/01/2020	12/29/2020
☐	0002	CA - BUSINESS PARTNERS	002	Intelligent ...		148	12/01/2020	12/29/2020
☐	0003	CA - EQUIPMENT DATA	003	Intelligent ...		18	12/01/2020	12/29/2020
☐	0004	CA - ORDERS MASTER (AUFK)	002	Intelligent ...		250	12/01/2020	12/29/2020
☐	0005	CA - VENDOR MASTER	003	Intelligent ...		4	12/01/2020	12/29/2020
☐	0006	FI - FINANCE DOCUMENTS	004	Intelligent ...		4,635	12/01/2020	12/29/2020
☐	0007	FI - PAYMENT RUNS	005	Intelligent ...		59	12/01/2020	01/12/2021
☐	0008	HR - EMP MAST WITH PAY POSTING	006	Intelligent ...		0	12/01/2020	00/00/0000
☐	0009	MM - MATERIAL DOCUMENTS	003	Intelligent ...		391	12/01/2020	12/29/2020
☐	0010	MM - MATERIAL MASTER	004	Intelligent ...		2,057	12/01/2020	12/29/2020
☐	0011	MM - PURCHASING DOCUMENTS	005	Intelligent ...		181	12/01/2020	12/29/2020
☐	0012	PM - MAINTENANCE PLANS	006	Intelligent ...		2	12/01/2020	12/29/2020
☐	0013	PP - PLANNED ORDERS	007	Intelligent ...		12	12/01/2020	12/29/2020
☐	0014	PS - PROJECT DEFINITIONS	008	Intelligent ...		57	12/01/2020	12/29/2020
☐	0015	QM - INSPECTION LOTS	009	Intelligent ...		258	12/01/2020	12/29/2020
☐	0016	QM - QUALITY NOTIFICATIONS	010	Intelligent ...		85	12/01/2020	12/29/2020
☐	0017	SD - CUSTOMER MASTER	003	Intelligent ...		34	12/01/2020	12/29/2020
☐	0018	SD - SALES DOCUMENTS	004	Intelligent ...		554	12/01/2020	12/29/2020

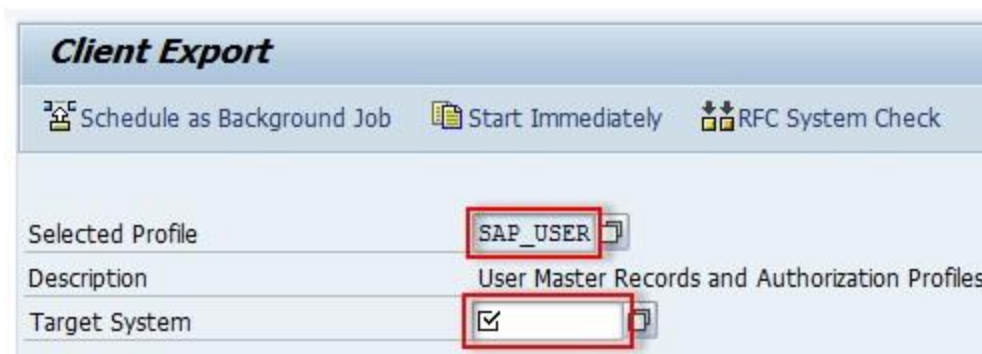
Copying the User Master from another Source

Gold Client Resources: [Client Construct 8.6 User Guide](#)

If the user master needs to be copied from a source that is different from where the SAP Customizing and data were copied from, the additional steps below can be performed

1. This task can be completed using either standard SAP or Gold Client
 - a. Via t-code SCC8; be sure to select only profile **SAP_USER** and enter the appropriate Target System (Fig. 6.0).

Figure 6.0



The screenshot shows the 'Client Export' dialog box in SAP. At the top, there are three icons with labels: 'Schedule as Background Job', 'Start Immediately', and 'RFC System Check'. Below these, there are three input fields: 'Selected Profile' with the value 'SAP_USER', 'Description' with the value 'User Master Records and Authorization Profiles', and 'Target System' with a checked checkbox. The 'Selected Profile' and 'Target System' fields are highlighted with red rectangles.

- b. Via Gold Client's Client Exporter function; be sure to select the Transport Request option in the 'Select Processing Method' section, and the User Masters checkbox within the 'Export Scope' section; then select 'Execute in Foreground' (Fig. 6.1); after execution, an output is displayed showing the job name that was generated (Fig. 6.2).

Figure 6.1

Client Exporter

Execute in Foreground Schedule Job Data Transform Job Monitor

Select Processing Method

☒ Transport Request

☐ R3Trans Method

☐ Direct Export

Export Scope

☐ Master Data

☒ User Masters

☐ Configuration

Data Selection Criteria

☒ All Master Data Type

☐ Select Data Type(s)

Source

Source Client 800

Target

Target System

Processing Options

Release and Export ☐

Passport File /usr/sap/trans/gold.pi1.800.20140417161625

Figure 6.2

Client Exporter

Execute in Foreground Schedule Job Data Transform Job Monitor

Gold Client - Client Construct 1

Summary for Client Export

Client export started via job CLIENTEXPORT 800:SAP_USER

2. Once the User Master export job has completed successfully, the next step is to add the transport that was generated from the export process into the Target system's queue via t-code STMS and then initialize the import into the new client
3. Once the User Master import has completed successfully, execute the import post-processing program in the Target client via t-code SCC7; it is recommended that the program be executed as a background job (Fig. 6.3)

Figure 6.3

The image shows the SAP SCC7 'Post-Client Import Methods' screen. At the top, the SAP logo is visible. Below it, there are two buttons: 'Schedule as Background Job' (highlighted with a red rectangle) and 'Start Immediately'. The main section is titled 'Post-Client Import Methods' and contains several input fields:

Request	PI1KT00001	
Profile name	SAP_USER	
Export time	17.04.2014	16:18:54
Export system	PI1	

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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