Qlik Gold Client<sup>™</sup>



# Data Echo Advanced Config User Guide 8.7

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## Introduction

This document serves as the User Manual for configuring Data Echo<sup>®</sup> Data Types utilized to selectively copy Master and/or Transactional Data.

This is an advanced feature of Gold Client and incorrect configuration may result in long running exports and/or other issues. Please consult with Qlik Analytics (ISR) Ltd. for any questions related to this document.

Illustrated in this guide are the step-by-step instructions for understanding and configuring Data Echo data types.

## Navigating the Framework

Various content about the Data Echo Framework and how best to navigate within it.

The default view of this screen shows only those Data Types which have been defined as 'Primary' and therefore the Primary Data Type filter is suppressed since this filter is deployed by default (Fig. A.0).

Please note that the 'Primary' setting identifies those Data Types as the ones which sit at the very top of their respective hierarchies and as per Qlik best practices should most often be used to initiate data copies in order to achieve the highest level of data integrity within the target client.

				Figure	A.0
Gold Cl	lient Dat	ta Framev	vork		
Eo Create	🖶 Сору	Eo Delete	😨 Primary Data Type	м	
Data Frame	work				
🔻 📂 Data	Туре				
🕨 🍋 CA	A - ASSET M	ASTER			
🕨 🕨 CA	A - BUSINES	S PARTNERS			
🕨 🌔 CA	A - EQUIPME	NT DATA			
🕨 🕨 CA	- ORDERS	MASTER (AUF	К)		
🕨 🕨 CA	- VENDOR	MASTER			
🕨 🍋 FI	- FINANCE I	DOCUMENTS			
🕨 🏓 🖬 FI	- PAYMENT	RUNS			
		T WITH PAY			
		AL DOCUMENT	S		
	M - MATERIA				
		SING DOCUME	NTS		
		NANCE PLANS			
	- PLANNED				
		DEFINITIONS			
	M - INSPECT				
	_	Y NOTIFICATI	ONS		
	- CUSTOM				
	) - SALES D		CNITC		
		ER REQUIREM			
• 🗖 W	M - WAREH	OUSE MANAGE	EMENT		

To view only master, only transactional, or all Data Types, select the respective filter: Master Data Type, Transaction Data Type, or Display All (Fig. A.1).

						Figure A.1
Gold Cl	lient Da	ta Frame	work			
E Create	🕞 Сору	🔁 Delete	📅 Primary Data Type	📅 Master Data Type	📅 Transaction Data Type	🐨 Display All

Other functions are also available which are located on this same toolbar (Fig. A.2)

Figure A.2

€ Classic View	🞉 Data Types by Tags	📔 Datatype Hierarchy Report
----------------	----------------------	-----------------------------

The **'Classic View'** redirects the user to the previous version of the Data Echo Framework which has really been left here for legacy users of Gold Client. It is not recommended that this version be used since it is now several years old and is no longer being enhanced.

The **'Data Types by Tags'** function allows users to search for Data Types by whatever tags have been defined by the organization. When selecting this function, a new window will appear showing which tags, if any, have been defined. The user can select one or more tags which will cause the list of Data Types to be filtered accordingly based on the Tag-Data Type assignment. For more content around how Tags are defined and deployed, reference the section named 'Maintain Data Type Tags' within the document titled <u>Gold Client Configuration and Utilities</u>.

The **'Datatype Hierarchy Report'** is a useful feature that provides a user a top-down view of the full hierarchy for a given Data Type. This report has existed for several years; however, this button (essentially a short-cut) was only added to the Data Echo Framework as part of the 8.6.1 release and is intended to help the user navigate their way through the complex and multi-layered hierarchy.

To make use of this report, the user's cursor control must be focused on a Data Type, either one from the left-hand structure or on one as a recipient (linked) Data Type; see examples 'A' and 'B' in this screen capture (Fig. A.3).

				Figure A.3
Gold Client Data Framework				
🗟 Create 🖷 Copy 🗟 Delete 🐨 Primary Data Type 🐨 M	laster Data Type 🛛 📅 Transaction D	Data Type 🛛 🚟 Display All 🛛 🖣	🔡 Classic View 🥂 🎉 Data Types by Tag	gs 🔃 Datatype Hierarchy Report
Data Framework  The Data Type	FI - FINANCE DOCUM	IENTS		
CA - ASSET MASTER	DT Kind File ID	Primary Primary Date Field	Data Wave No Data File	
CA - BUSINESS PARTNERS	Transactional FI_DOC	CPUDT		
EQUIPMENT DATA				
E CA - ORDERS MASTER (AUFK)				
CA - VENDOR MASTER	g 1 = 7 M 6 0 .	ار 😥		
TE FI - FINANCE DOCUMENTS A	Linkages [ Display Mode ]			
• Tables	Recipient DT	VBFA Fl. Inactive		
• 🔗 Linkages • 🏷 Subset Sync	FI - PROFIT CENTER DOCS			
Subset Sync     El Data Snap	FI - REVERSAL FINANCE DOCS			
• 🏠 Data Shap	LINK - ACCT TO CLEARING DOC	B		
Cenarios	LINK - FI DOC TO CUSTOMER MA			
Export Memory Config	LINK - FI DOC TO INTERCO DOC			
<ul> <li>FI - PAYMENT RUNS</li> </ul>	LINK - FI DOC TO VENDOR MAST	ER 🗌	Ŧ	

If the cursor control is focused anywhere other than on a Data Type, the following error message should be displayed (Fig. A.4).

Figure A.4

Belect a valid Data Type in order to reach the Datatype Hierarchy report

For more content on using this report, reference the section named 'Data Type Hierarchy Report' within the document titled <u>Gold Client Configuration and Utilities</u>.

When displaying a Data Type, the relevant content will always be displayed at right within a series of sub-screens. The header details are always in the top-level screen (Fig. A.5).

Figure A.5

SD - SALES	DOCUME	NTS				
DT Kind	File ID	Primary	Primary Date Field	Data Wave	No Data File	
Transactional	SD_SD_	<	ERDAT	<ul><li>✓</li></ul>		

The second sub-screen will contain various content based on which maintenance view is selected (Fig. A.6). The content most likely to be displayed here based on the user's selection will be the list of table relations when selecting the 'Tables' view (Fig. A.7) or the list of recipient (child) Data Types when selecting the 'Linkages' view (Fig. A.8).

Figure A.6



#### Figure A.7

SD - SALES DOCUMENTS									
DT Kind	File ID		Primary	Primary Date Fie					
Transactional	SD_S	D_	✓	ERDAT					
Q 1 🛋 Ŧ 🛗 1 🖨 🗗 1 🚱 🦉									
Tables [ Display	Mode ]								
Table Name	Source	Head Flg	Sec.Fla	g Data Eleme					
CEERROR	VBAK								
CKMLKALNR	EBEW								
COER	VBAK								
EBEW	VBAK								
EBEWH	VBAP								
EBII	VBAK								

Figure A.8

SD - SALES DOCUMENTS								
DT Kind	File ID	Primary	Primary	Date Field				
Transactional	SD_SD_	<	ERDAT					
				,				
Q 1 = 1   - 0 - 0 - 1   >								
Linkages [ Display Mode ]								
Recipient DT	1	VBFA Fl.	Inactive					
CA - CHANGE DOCU								
CA - OUTPUT STAT								
CA - SERIAL NUM F	OR SALES ORD	ERS						
CA - TEXT								
FI - CASH MGMT FO	R SD DOCUME	INTS						
FI - REVENUE RECO	GNITION							

Double-clicking on a row in the second sub-screen will cause the related content (if any) to display in the third sub-screen. The content most likely to be displayed here based on the user's selection will be the common fields that are used to define a table relation (Fig. A.9) or the mapping details used to relate Data Types (Fig. A.10).

Figure A.9

SD - SALES DOCUMENTS								
DT Kind	File	ID	Primary	Primary Date F				
Transactional	SD_	SD_	$\checkmark$	ERDAT				
Q 1 7 1 2 0 1 0 1 0 1								
Tables [ Display	Mode ]							
Table Name	Source	Head Flo	Sec.Flag	Data Eleme				
CEERROR 🗗	VBAK							
CKMLKALNR	EBEW							
COER	VBAK							
EBEW	VBAK							
EBEWH	VBAP							
EBII	VBAK							
9 17 M 20. B. M								
CEERROR-VBAK								
Table Fld Src F	ld							
VBELN VBEI	N							

10

								Figure A
SD - SALES	DOCUME	NTS						
DT Kind	File ID	Primary	Primary	Date Fie	ld Data	Wave	No Data File	e
Transactional	SD_SD_	✓	ERDAT			/		
9 1 <b>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</b>								
Linkages [ Display I	Mode ]							
Recipient DT			VBFA Fl.	Inactive				
CA - CHANGE DOC	UMENTS	5						
CA - OUTPUT STA	TUS							
CA - SERIAL NUM	FOR SALES ORD	ERS						
CA - TEXT								
FI - CASH MGMT F	OR SD DOCUME	INTS						
FI - REVENUE REC	OGNITION							
		<b>)</b>   6	···· ک					
CA - CHANGE DOC	UMENTS							
OpParen AND/OR	NOT Rec. Tab.	Recip. Fi	eld	Operator	Prv. Field	Value	Cl	Paren
8	CDHDR	OBJECT	CLAS	EQ		'VERKBE	ELEG'	
AND	CDHDR	OBJECT	ID	LIKE	VBELN			

The only time the fourth sub-screen is used is when a Data Type link must use either concatenation or truncation logic as part of the mapping details that link Data Types. Here is an example of concatenation being used where static value 'OR' must be concatenated to the front of the AUFNR (order) value (Fig. A.11).

Note that an asterisk must be added to the 'Provider Field' in order to add concatenation or truncation logic (see black arrow).

								Figure A
PP - PRODU	CTION O	RDERS	5					
DT Kind	File ID	Primary	Primary	Date Fie	ld Dat	a Wave	No Data F	ile
Transactional	PP_ORD		GSTRI			✓		
		۱ 😭						
Linkages [ Display N	1ode ]							
Recipient DT		1	VBFA Fl.	Inactive	e			
CA - INSTALLED B/								
CA - OBJECT STAT								
CA - SERIAL NUM F	OR PP ORDER							
CA - TEXT								
CO - COSTING (CO								
CO - COSTING (CO	·FP)							
		۱ 😭						
CA - OBJECT STAT	US							
OpPar AND/OR N	IOT Rec. Tab.	Recip. Fie	eld O	)perator	Prv. Fiel	d Value	C	Par
	JSTO	OBJNR	=	:	*			
				,				
<u>g i i t n</u>		2   19						
CA - OBJECT STAT	US	1						
Prv. Field Value P	osition Length							
🗗 OR								
AUFNR								

Here is an example of truncation being used where the value stored in field WADONR must be truncated in order to pass the relevant value to table IFLOT and field TPLNR (Fig. A.12).

Figure A.12
-------------

K AREA T	TO INF	O OBJECTS	5				
File ID	Primary	Primary Date Fie	ld Data	Wave	No Data File		
LWA2IO					✓		
	🕒 I 😚	>					
lode ]							
		VBFA Fl. Inactive					
IASTER							
LOCATIONS							
LOCATIONS							
OT Rec. Tab.	Recip. Fie	d Operator	Prv. Field	Value	ClPar		
IFLOT	TPLNR	=	*				
9 1 <b>1 7 M</b> 1 <b>0 , 6 ,</b> 1 <b>%</b>							
LOCATIONS							
Position Ler	1 <u>g</u>						
6	30						
	File ID LWA2IO	File ID Primary LWA2IO  INVAZIO INVAZI	File ID Primary Primary Date Fie LWA2IO	LWA2IO	File ID Primary   IWA2IO Image: Second	File ID Primary   LWA2IO Primary   Primary Primary   Data Wave No Data File   WA2IO Image: Constraint of the second sec	

## Data Echo Data Types

#### Overview

Data Echo Data Types are logical groupings of SAP Transactional or Master Data and the linkages between tables that maintain data integrity when exporting/importing.

These Data Types are grouped at a Transaction/Document level. For instance, there is a single Data Type for Sales Documents (i.e. SD – SALES DOCUMENTS). This Data Type includes all tables related to Sales Documents; however, this Data Type <u>does</u> <u>not</u> include downstream (Recipient) tables, like those related to Deliveries, for example.

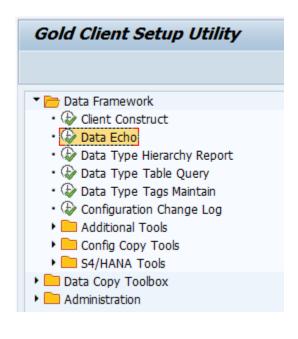
The 'reach' of a Data Type should not extend past its own referential boundaries. There may be exceptions to this standard, but this is typically the rule.

#### Configuring and Creating Data Echo Data Types

To maintain or create a Data Echo Data Type, go to the Gold Client front end (Transaction ZGOLD).

Select the Configuration button located in the bottom-right of the screen; this will lead to the Gold Client Setup Utility page. From here, select the executable named Data Echo located under the Data Framework folder (Fig. 1.0)

Figure 1.0



The Gold Client Data Framework is displayed listing all the configured Data Types (Fig. 1.1).

								Figure 1.1
Gold Cl	lient Da	ta Frame	work					
Create	🖶 Сору	🔁 Delete	🖗 Primary Data Type	🕼 Master Data Type	F Transaction Data Type	😽 Display All	Classic View	🛱 Data Types by Tags
Data Frame								
		FY PLANNING			<b>A</b>			
		ANAGEMENT			<b>_</b>			
		ANAGEMENT /						
			ENT CONTENT					
		GMT: LIO ATT						
		GMT: LIO INST			33 J.			
_		GMT: PIO INS						
			F - ADRCOMC					
		L ADDR MGMT						
		L ADDRESS A						
🔹 🕨 🔂	A - CENTRA	ADDRESS FE	ROM PO					

There is a Data Type function at the top level of the cluster; this is where the Data Type is defined. The Data Type contains a long name, Data Type kind (transactional, master, or other), a File ID that is used as part of the data filename (and to which the value must be unique), as well as a Primary indicator and related Primary Date Field which are relevant to the Intelligent Slice functionality (Fig. 1.2).

							Fig	gure 1
Gold Client Data Framework	ata Type	7 Transact	ion Data T	ype ႃ	Primary Data 1	Fype 🛱 Dis	play All 🛛 🕄 Cla	assic Vi
Data Framework  Data Framework  QM - SAMPLING PROCEDURES  QM - SAMPLING SCHEMES  QM - VENDOR ANALYSIS  GM SD - BILLING DOC FROM FLOW  SD - BILLING DOCS FROM REBATES	<ul> <li>Dataty</li> <li>Transa</li> </ul>	BILLING pe Kind ctional	File ID SD_INV	Prin	nary Primary D	ate Field		
GI SD - BILLING DOCUMENTS     III Tables	Tables	[ Display Mod	de ]					
<ul> <li><i><sup>3</sup></i> Linkages</li> <li><i><sup>5</sup></i> Subset Sync</li> <li><i><sup>5</sup></i> Data Snap</li> </ul>	Table KONV VBFA	Source VBRK VBRP	Hd Flg	Sec.Hag	Data Element			
Cata Shap     Scenarios     Export Memory Config	VBOX	VBRK						
SD - CONTRACTS     SD - CUSTOMER ADDRESS MASTER	VBPA3				VBELN_VF			
<ul> <li>B SD - CUSTOMER CONTACT PERSON</li> <li>B SD - CUSTOMER MASTER</li> </ul>	VBRL	VBRK		Ō				
SD - CUSTOMER MASTER TOTALS     SD - DELIVERIES	VBRK-V							
B SD - DELIVERIES FROM PO     B SD - DELIVERIES TO ORDERS     B SD - DOC FLOW (VBFA)	Table VBELN	Fld Src Fld VBELN						
SD - PRICING DOCUMENTS     SD - REBATES								
<ul> <li>B SD - RMA</li> <li>B SD - S060</li> </ul>								
SD - S136     SD - SALES DOCS TO CREDIT MEMO	#							
SD - SALES DOCS TO DEBIT MEMO     SD - SALES DOCS TO RETURNS	-							
SD - SALES DOCUMENTS								

The configuration of a Data Type occurs through a combination of Table Links and Field Links. Select a Data Type on the left-hand side of the screen and then select Tables located under the Data Type (Fig. 1.3); this displays the tables in the Data Type. To better explain this, consider this review of the SD - SALES DOCUMENTS Data Type:

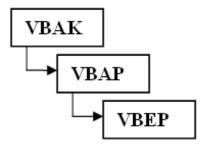
• The standard SD - SALES DOCUMENTS Data Type contains 40 tables. Every Data Type must have a Header table defined. In this case the Header table is VBAK (Sales Document Header table). This is clearly indicated by the Header Flag field in the Tables view.

							Figure 1.
Gold Client Data Framework							
🖶 Create 🖷 Copy 🕞 Delete 🌾 Master Data	Туре 🍞	Transactio	n Data T	ype S	Primary Data Ty	/pe 🛱 Display All	Classic
Data Framework	SD - S	ALES D			ς		
• 🛅 SD - S136 🔹							
SD - SALES DOCS TO CREDIT MEMO	Datatype Transactio		File ID		mary Primary Dat	te Field	
SD - SALES DOCS TO DEBIT MEMO	Transactio	onal	SD_SD_		ERDAT		
<ul> <li>B SD - SALES DOCS TO RETURNS</li> <li>SD - SALES DOCUMENTS</li> </ul>				1000			
Tables		<b>8</b> 0		- L3	- 1 m		
· d Linkages	Tables [ D	isplay Mode	e ]				
• Subset Sync	Table	Source	Hd Flg	Sec.Fl	Data Eleme		
• 📝 Data Snap	SER02	VBAK					
• 🔲 Scenarios	VAKGU	VBAK					
<ul> <li>Export Memory Config</li> </ul>	VAKPA	VBPA					
SD - SALES DOCUMENTS FROM PO	VAPMA	VBAP					
B SD - SALES DOCUMENTS NO DOC FLOV	VBAK	VBAK	-		VBELN_VA		
SD - SHIPMENT COSTS	VBAP	VBAK		<	POSNR_VA		
SD - SHIPMENTS	VBBE	VBAP					
B SD - SHIPMENTS FROM FLOW	VBEH	VBAK					
B SD - TRADING CONTRACTS	VBEP	VBAP					
B SEC - USER DATA	VBEPDG	VBAP					
TR - BANKING STATEMENTS	VBEX	VBAP					
Kara - BANKING STATMNTS W/ PAYADV     Mathematical Transactions	VBKD	VBAK					
TR - CFM TRANSACTIONS     TR - DIST BUSINESS TRANSACTION	VBLB	VBAK					
<ul> <li>In TR - DIST BUSINESS TRANSACTION</li> <li>In TR - QUOTATION PRICE INFORMATION</li> </ul>							
<ul> <li>In - Securities Account Master</li> </ul>		<b>7</b> 00		- E			
<ul> <li>M SECONTILES RECOONT MUSTER</li> <li>M POSTING CHANGE NOTICES</li> </ul>	VBAK-VBA	K					
WM - STOCK MOVEMENTS	Table Fld	Src Fld					
• 🔀 WM - SYSTEM INVENTORY RECORDS	VBELN	VBELN					

#### Table Links

Table Links function through a parent-child relationship. The table listed in the righthand column is the parent table, and the table in the left-hand column is the child table. These links can only move three levels deep within a particular Data Type. This restriction exists to prevent reaching out of the boundaries of a Data Type. Below is an illustration (Fig. 2.0) showing the table relationships of a few SD - SALES DOCUMENTS tables.

Figure 2.0



Basics and Best Practices on Table Relationships:

- All Data Types must have one, and only one, Header table defined.
- Table relationships can only go three levels deep.
  - To avoid very complex table joins, a restriction exists that only allows for a parent-child-grandchild depth in the Data Type. This also helps to ensure that a Data Type does not reach past its boundaries and extend into another Data Type's territory. There are very rarely any cases when a Data Type has Table links more than three levels deep.
  - $\circ~$  An example in the SD SALES DOCUMENTS Data Type (Fig. 2.1) is the following link:

VBAK - VBAP - VBEP

VBAK is the Header table, which VBAP links from. VBEP then links from VBAP. This table link cannot extend any further at this point (i.e. another table cannot link off VBEP in this example).

Figure 2.1

SD - S	SALE	S DOC	UMEN	ITS	
Datatype	Kind	File ID	)	Primary	
Transactio	nal	SD_S	D_		
	<b>7</b> 8			2	
Tables [ D	isplay Mo	ode ]			
Table	Source	Head Flg	Sec.Flag	Data Eleme	
VAKPA	VBPA				
VAPMA	VBAP				
VBAK	VBAK	1			
VBAP 🗗	VBAK			1	
VBBE	VBAP				
VBEH	VBAK				
VBEP	VBAP				
VBEPDG	VBAP				

3.0

#### Field Links

Tables link together through Field Links. To view the Field Links for a table relationship, double-click on a Table Link. The Field Links display in the lower screen cluster for the selected table relationship. Tables VBAK and VBAP are related by Field Link VBELN-VBELN (Sales Document Number). (Fig. 3.0)

The parent and child fields are the same in this particular instance but may not be in some situations. To allow for this, the <code>Source</code> field as well as the <code>Target</code> field must be defined.

						F
SD - S	SALE	S DOC	UMEN	ITS		
Datatype	Kind	File ID	)	Primary	Primary Date Field	
Transacti	ransactional SD_SD_					
	<b>7</b> 8			2		
Tables ( C	isplay Mo	ode ]				
Table	Source	Head Flg	Sec.Flag	Data Eleme	1	
VAKPA	VBPA					
VAPMA	VBAP					
VBAK	VBAK	<b>v</b>				
VBAP	VBAK					
VBBE	VBAR					
VBEH	VBAK					
VBEP	VBAP					
VBEPDG	VBAP					
	( <b>T</b> )			2		_
VBAP-VE						
Table Fld	Src Fld					
VBELN	VBELN					

E:-----

To assign Field Links go into change mode by selecting the icon. Next, select the

**Common Fields** option to assist with the identification of Field Links; it will run a report displaying the common fields between the tables. (Fig. 3.1)

							Figure 3.1
		2 CH CH 2				) 🖪 🕤 Transfe	r Selected Fields
B	VBAP:tabl	e VBAK:source	Primary Key Match	Data element	match only	1st field of index	1st field of index
	VBELN	VBELN					

Important Note: Even if there are common fields between tables with identical names, there is no guarantee that the data contained within will always match. This feature is provided as a starting point; it is suggested that the data be viewed within t-code SE16 to ensure that the data for the respective tables links together.

Basics and Best Practices on Field Links:

- When specifying the Header table's Field Links, simply include a 1 to 1 relationship for all of the Key Fields in the table.
- Use the Common Fields Utility to identify common fields between two tables; utilize this as a starting point for the link. It is more than likely that if the tables belong in the same Data Type they will share at least one common field, most likely a Key Field on both tables.
- Be careful when linking tables together with Item Number fields such as
   POSNR. In some cases the Item Numbers may not be identical between tables.
   There are situations when Item Number needs to be used to link tables, so if
   uncertain, review the data via SE16 to ensure in all situations that the Item
   Number is required to link the tables.
- Whenever possible, utilize Key Fields to link tables. This helps ensures that the tables link together and that the export of the data will perform well.
- If Key Fields are not available or common to link between tables, utilize Indexed fields whenever possible. To review what indices, exist for a table go to transaction SE11, view the table, and select the Indexes button.

#### Creating a Data Type

- 1. Go to the Gold Client main page by way of transaction ZGOLD
- 2. Select the Configuration button located in the bottom-right of the screen; this will lead to the Gold Client Setup Utility page. From here, select the executable named Data Echo located under the Data Framework folder (Fig. 4.0)

Eiguro	1	0
Figure	4.	υ

Data Framework
• 🐼 Client Construct
• 🐼 Data Echo
• 🐼 Data Type Hierarchy Report
• 🐼 Data Type Table Query
• 🐼 Data Type Tags Maintain
• 🐼 Configuration Change Log
🕨 🥅 Additional Tools
Config Copy Tools
S4/HANA Tools
🕨 🧀 Data Copy Toolbox
Administration

3. Select the Create button located on the toolbar; the 'Create Datatype' child window appears (Fig. 4.1).

		Figure 4.1
GCT(1)/800 Create	Datatype	
Data Type		
DT Kind		
File ID	R	
Data Snap Rec Limit	R	
	✓ X	

• Specify a Data Type Description

• Start the description with a two-digit module such as `CA' for Cross Application or `SD' for Sales & Distribution.

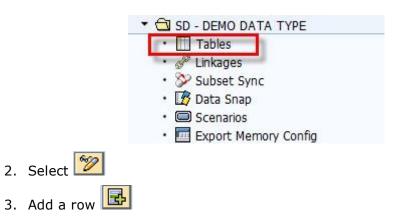
**Refer to the delivered Data Types for examples (i.e.** SD - SALES DOCUMENTS).

- Specify the Data Type Kind (DT Kind) Transactional, Master Data, or Other
  - This is simply a classification, but keep in mind that if a type is specified as 'other,' the Data Type cannot be utilized to create a Scenario. When attempting to create a new Scenario, all Data Types classified as 'other' will be filtered out.
- Specify a File ID This is the Key for the Data Type and must be unique. Typically, it is an abbreviation of the description.
- Specify a Data Snap Rec limit Always make this value '1000' unless otherwise instructed by Attunity.
- Select 🗹 to complete this task and then be sure to save your work.

#### **Define Table Links**

1. Select the newly created Data Type and then select Tables (Fig. 5.0)

Figure 5.0



- This creates an empty Tables row where the Data Type tables can be defined with their respective parent table links. Remember that the Table Links can only go three levels deep.
- 4. Enter the Header table in both the Table and Source columns and check the box in the Header Flag field to identify it as the Header (Fig. 4.3). Note: Saving any changes is not possible without first defining a Header.
- 5. Enter any other Table Links which need to be defined.
- 6. Use the 'Enter' key to validate the entries. If there are any issues with the configuration specified, warnings will appear at this point; however, the existence of a Header table is not checked until saving changes.
- 7. Save all changes

In Figure 5.1, the SD - SALES DOCUMENTS example explained in Figure 2.1 has been replicated. VBAK has been defined as the Header table, VBAP links off of VBAK, and VBEP links off of VBAP.

U	- L	DEMO D				
Da Kir	ata Type nd	Transaction	al 💌	File Identification Code	SD - D	
[	3 A	<b>8 1 1</b>	61		3	
	Tables ( C	>hange Mode ]				
B	Table	Source Table	Hd Flg			
	VBAK	VBAK				
	VBAP	VBAK				
	VBEP	VBAP 🗗				

#### **Define Field Links**

- 1. Double click on a table link; the field links are maintained in the next subscreen (Fig. 6.0 and 6.1).
- 2. Select 💯
- 3. Select Common Fields Utility to check the common fields between the tables.
- 4. Select Transfer Selected Fields; this will populate the common fields for you

Alternatively, the fields can be entered manually based on the results of the Common Fields Utility and/or other investigations into the data linkage. Remember: Utilize Key Fields and Indexed Fields whenever possible to achieve the best performance when exporting data.

- 5. Save your changes
- 6. Repeat steps 1-5 to create Field Links for <u>all</u> Table Links.

Important: If a Field Link is not defined for a Table Link, data in the child table for that Table Link <u>cannot</u> be exported.

SD - DEMO DATA TYPE	Figure 6.0
Data Type Transactional File Identification SD - D Kind	
Tables [Display Mode]	
Table Source Head Fig	
VBAP VBAK	
VBEP VBAP	
S A 7 H B 6 B B 1 🏏	
VBAK-VBAK	
Table Fld Src Fld	
VBELN VBELN	

#### **Define Field Links**

SD - DEMO DATA TYPE	Figure 6.1
Data Type Transactional File Identification SD - D	
Tables [Display Mode ]	
Table Source Head Fig	
VBAK VBAK	
VBEP-VBAP	
Table Fid Src Fid	
POS 🗗 POSNR	
VBELN VBELN	

#### **Configuration Change Log**

If the configuration setting FRAMEWORKLOG is active (Fig. 7.0), any changes made to the Data Framework will be logged, and any comments related to the change can be added into the 'Enter Reason for Change' window which appears whenever changes are saved (Fig 7.1).

Figure 7.0

Miscellaneous Configuration						
Functionality	Active					
FRAMEWORKLOG	$\checkmark$					

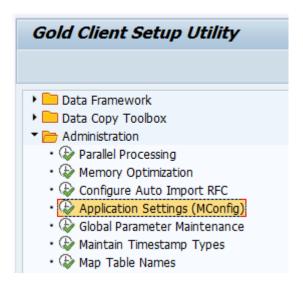
Figure	7.	1
--------	----	---

🔄 Enter Reason for Change 🛛 🛛 🗸	1
Config change requested by HTG support	
🖌 🞝 Skip	

This setting can be maintained within the Gold Client Configuration as needed. To access, select the 'Configuration' button located in the bottom-right of the main Gold Client screen (t-code ZGOLD); the Gold Client Setup Utility page will be displayed. From here, open the Administration folder and then select the executable named Application Settings (MConfig) (Fig. 7.2).

Figure 7.2

Figure 7.3



The change log can be accessed from the same Gold Client Setup Utility page. From here, open the Data Framework folder and then select the executable named Configuration Change Log (Fig. 7.3).

Gold Client Setup Utility Data Framework Client Construct Data Echo Data Type Hierarchy Report Data Type Table Query Data Type Tags Maintain Configuration Change Log Additional Tools S4/HANA Tools Administration

The Configuration Change Log selection screen appears (Fig. 7.4).

#### Figure 7.4

# Configuration Change Log

## **Provider to Recipient Linkages**

#### Overview

Provider to Recipient linkages are utilized to link Data Types together. They allow Data Types to be linked as necessary to maintain document flow integrity. Some configuration is delivered standard with Gold Client, but since document flow is unique to every company, some configuration typically occurs during installation or post-installation. This flexibility allows specific configuration of Gold Client to meet a company's individual requirements.

As mentioned in the Data Echo data type section of this document, a specific Data Type can only travel three levels deep in the Table Link configuration. This should prevent the Data Type from reaching outside of its boundaries. To obtain downstream documents out of a Data Type's range, utilize a Provider to Recipient linkage.

Figure 8.0

#### Provider to Recipient Linkages

There are two primary types of Provider to Recipient (P2R) linkages:

#### A to B link

This is the standard link between two Data Types wherein they share common fields and can directly link to each other.

An example of this is the linkage from MM - PURCHASING DOCUMENTS to CA

 CHANGE DOCUMENTS. Field EBELN (Purchase Order Number) on table EKKO
 (A) links to field OBJECTID on table CDHDR (B). The field names are not
 identical, but the Object Value (OBJECTID) field on CDHDR contains the PO
 Header Number (as well as other Document Numbers, given this is a
 Cross Application table) (Fig. 8.0).

Gold Client Data Framework								
🛃 Create 🛛 🖶 Copy 🔂 Delete 🏾 🍞 Master D	ata	Type 🍞 Transaction Da	ta Type	Primary Da	ta Type 🛛	😽 Display A	All 🕂 Classic	View
Data Framework		MM - PURCHAS			c			
MM - PURCHASING CONTRACTS	*	MIM - PURCHASI	ING DC	COMENT	2			
MM - PURCHASING DOCS FROM PREQ	•	Datatype Kind File I		Primary Prima				
MM - PURCHASING DOCUMENTS		Transactional MM_	PD	AEDA	Т			
Tables								
• d <sup>ar</sup> Linkages		3 4 7 6 2						
Subset Sync		Linkages [ Display Mode ]						
• 🧾 Data Snap				LIDEA E				
Scenarios		Recipient DT CA - ATTACHMENT LIST		VBFA FI.	Inactive			
Export Memory Config		CA - CHANGE DOCUMEN	FC		<b>V</b>			
MM - PURCHASING REQUISITIONS		And a second sec	C.76					
MM - RESERVATIONS		CA - FOREIGN TRADE (E CA - OUTPUT STATUS	(P/IMP)	_				
MM - SERVICE ENTRY SHEET		CA - TEXT						
MM - SERVICE MASTER     MM - SERVICE PACKAGE		CA - VENDOR MASTER						
MM - SERVICE PACKAGE      MM - SERVICE TYPES		CO - COMMITTMENT LIN			$\checkmark$			
MM - SERVICE TYPES     MO OIL - TO DRIVER PER VEHICLE/SHIP		LINK - OBJECT TO SRREI						
OIL - TO DRIVER PER VEHICLE/SHIP     OIL - TO RACK METER		LINK - PO TO CONSUMP	FIONS					
OIL - TD SHIPMENTS		LINK - PO TO DELIVERY						
<ul> <li>OIL - TO TRANSPORT UNIT/SHIPMENT</li> </ul>		I THE DO TO DELTIVEDY	1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 -		0			
OIL - TO TRANSPORT UNIT/SHIPMENT		3 8 7 6 2		3 . 1 🦅				
OIL - TD VEHICLES		CA - CHANGE DOCUMENT	S					
OIL - TD VEHICLES IN SHIPMENTS		OpParen AND/OR NOT		Pacin Field	Operator	Prv. Field	Value	CIPa
PM - COSTING		particular in the part of the	CDHDR	OBJECTCLAS	EQ	erv. nelu	'EINKBELEG'	CIPd
PM - EQUIPMENT MASTERS			CDHDR	OBJECTID	LIKE	EBELN	LINDLLLU	
		AND	CUNUK	OBJECTID	LIKE	LDELIN		

#### A to B to C link

This is a more complex link type that requires an intermediary table to complete the link from one Data Type to another. This is typically the case for the Sales & Distribution document flow. Depending on a company's configuration, all or most of the document flow will be controlled through table VBFA.

 An example of this linkage type is MM - PURCHASING DOCUMENTS to LINK - PO TO DELIVERY. Going from the Purchase Order Header table EKKO directly to the Delivery Document Header table LIKP is not possible. This link must be completed through table EKES. To do this, Data Type 'LINK - PO TO DELIVERY' is utilized as the "B" Link and this Data Type only contains table EKES. The figures below provide a good illustration of this type of complex relation.

MM - PURCHASING DOCUMENTS linked to LINK - PO TO DELIVERY is based on EKES-EBELN being equal to EKKO-EBELN (Fig 8.1).

Figure 8.1

🔂 Create 🛛 Copy 🔂 Delete 🍞 Master I	Data	Type 🗗 Transaction Data Type 🍞 Primary Data Type 🖓 Display All 🕄 Classic View
Data Framework		MM - PURCHASING DOCUMENTS
MM - PURCHASING CONTRACTS	•	
MM - PURCHASING DOCS FROM PREQ	•	Datatype Kind File ID Primary Primary Date Field
MM - PURCHASING DOCUMENTS	-	Transactional MM_PD  AEDAT
Tables		
• de Linkages		3 A7H D6.Q.
Subset Sync     Data Snap		Linkages [ Display Mode ]
Cocca shap     Scenarios		Recipient DT VBFA FI. Inactive
Export Memory Config		LINK - OBJECT TO SRRELROLES
MM - PURCHASING REQUISITIONS		LINK - PO TO CONSUMPTIONS
MM - RESERVATIONS		LINK - PO TO DELIVERY
MM - ROUTINGS		LINK - PO TO DELIVERY (EKBE)
Image: MM - SERVICE ENTRY SHEET		LINK - PO TO GOODS ISSUE
MM - SERVICE MASTER		LINK - PO TO GOODS RECEIPT
MM - SERVICE PACKAGE		LINK - PO TO INVOICE RECEIPT
MM - SERVICE TYPES		
• B OIL - TD DRIVER PER VEHICLE/SHIP		3 4 7 6 2 6 . 3 . 7
OIL - TD RACK METER		
OIL - TD SHIPMENTS		LINK - PO TO DELIVERY
OIL - TD TRANSPORT UNIT/SHIPMENT	50.	OpParen AND/ NOT Rec. Tab. Recip. Field Operator Prv. Field Value ClPar
OIL - TD TRANSPORT UNITS		EKES EBELN = EBELN

See table details for Data Type LINK - PO TO DELIVERY; the only table defined is EKES (Fig. 8.2).

Gold Client Data Framework								Figure 8.2
	Data '	Type 🍞 Transa	ction Data	Туре	Prim	ary Data Type	🛱 Display All	Classic '
Data Framework    Bulink - PHRASE TO CLASS DATA		LINK - PO	TO DE	LIVER	Y			
B LINK - PI TO SUBORDINATE PI     B LINK - PO TO CONSUMPTIONS     G LINK - PO TO DELIVERY	•	Datatype Kind Other	File ID LPO2D	20 mm	rimary	Primary Date Fie	ld	
Tables      Multiple      Tables      Multiple      Subset Synce      Sy		Tables [ Display M		<b>6</b> . B	. 1	2		
B Data Snap     O Scenarios     Export Memory Config		Table Source EKES EKES	Hd Flg	Sec.Flag	Data E	leme		
IIINK - PO TO DELIVERY (EKBE)								

Here is the Link for Data Type LINK - PO TO DELIVERY to SD - DELIVERIES (Fig. 8.3).

🛃 Create 🖷 Copy 🔒 Delete 🌾 Maste	er Data	Type 🍞 Transa	ction Data Typ	e 🍞 Prin	nary Data Type	🛱 Display All	Classic Vie
Data Framework    Back - PHRASE TO CLASS DATA		LINK - PO		/ERY			
LINK - PI TO SUBORDINATE PI	-	Datatype Kind	File ID	Primary	Primary Date Fie	ld	
LINK - PO TO CONSUMPTIONS		Other	LPO2DL				
LINK - PO TO DELIVERY							
• Tables					2		
Cinkages     Subset Synce		Linkages [ Display	Mode ]				
• 📝 Data Snap		Recipient DT	VBFA Fl. I	nactive			
© Scenarios		SD - DELIVERIES					
Export Memory Config		1					

Here are the Linkage details for LINK - PO TO DELIVERY to SD - DELIVERIES. This linkage is based on EKES-VBELN being equal to LIKP-VBELN (Fig. 8.4).

Figure	8.4
i iguio	· · ·

Gold Client Data Framework	
🛃 Create 🖷 Copy 🔂 Delete 🍞 Master Dat	a Type 🛛 Transaction Data Type 🕞 Primary Data Type 🛱 Display All 🕀 Classic View
Data Framework	LINK - PO TO DELIVERY
B LINK - PI TO SUBORDINATE PI     B LINK - PO TO CONSUMPTIONS     G LINK - PO TO DELIVERY	Datatype Kind         File ID         Primary         Primary Date Field           Other         LPO2DL
Tables     Minkages     Subset Synce	Images [ Display Mode ]
<ul> <li>Image: Scenarios</li> <li>Image: Scenarios</li> <li>Image: Scenarios</li> </ul>	Recipient DT     VBFA FI.     Inactive       SD - DELIVERIES
B LINK - PO TO DELIVERY (EKBE)     B LINK - PO TO GOODS ISSUE     B LINK - PO TO GOODS RECEIPT	() A7H 20, 4, 17
GLINK - PO TO INVOICE RECEIPT     GLINK - PO TO MATERIAL DOC      MOLINK - PO TO MATERIAL DOC ALIEM	SD - DELIVERIES       OpParen     AND/       NOT     Rec. Tab.       Recip. Field     Operator       Prv. Field     Value       ClParen

#### **Configuring Provider to Recipient Linkages**

To maintain a Linkage between Provider and Recipient Data Types, do the following:

- 1. Go to the main Gold Client screen (Transaction ZGOLD)
- 2. Select the Configuration button located in the bottom-right of the screen; this will lead to the Gold Client Setup Utility page. From here, select the executable named Data Echo located under the Data Framework folder.
- 3. Choose a Data Type and then select Linkages located under the Data Type; this displays any Recipient Data Types existing for that Data Type (Fig 9.0).

						Figure 9.0
Gold Client Data Framework						
🛃 Create 🖷 Copy 🔂 Delete 🌾 Master Data	Type 🍞 Transa	ction Data Typ	e 🍞 Prir	nary Da	ta Type 🛛	🖥 Display All
Data Framework  MM - PURCHASING CONTRACTS	MM - PURC	HASING I	DOCUM	ENT	s	
MM - PURCHASING DOCS FROM PREQ	Datatype Kind	File ID	Primary	Primar	ry Date Field	
MM - PURCHASING DOCUMENTS	Transactional	MM_PD	<b>v</b>	AEDA	T	
	Linkages [ Display Recipient DT			Ø /BFA	Inactive	
Export Memory Config	CA - ATTACHME					
<ul> <li>MM - PURCHASING REQUISITIONS</li> <li>MM - RESERVATIONS</li> </ul>	CA - CHANGE DO CA - FOREIGN TR		)			
MM - ROUTINGS	CA - OUTPUT ST	ATUS				
MM - SERVICE ENTRY SHEET	CA - TEXT					
MM - SERVICE MASTER	CA - VENDOR MA	STER				

- 4. Select the icon to convert the sub-screen from display to change mode
- 5. Now it's possible to make any necessary changes (Fig. 9.1)
  - a. add a new entry using the 'New row' icon
  - b. delete an entry using the 'Delete row' icon
  - c. activate or inactivate data type linkages
- 6. Once changes are complete, be sure to save your work

					Figure
MM - PURC	HASING D	OCU	MEN	ITS	
Datatype Kind	File ID	Pri	mary I	Primary Date Field	1
Transactional	MM_PD	(			•
		1 10			
Linkages [ Char					
🖹 Recipient DT			VBFA	Inactive	
CA - CHANGE	DOCUMENTS	ð			
CA - FOREIGN	TRADE (EXP/IMP)				
CA - OUTPUT S	STATUS	8			
CA - TEXT					
CA - VENDOR	MASTER				
CO - COMMITT	MENT LINE ITEMS	1			-
			22		

To maintain Linkage Details between Provider and Recipient Data Types, double-click on the Recipient data type that needs to be changed; the result is that the subscreen displays with the existing Linkage Details, if any (Fig. 9.2). Convert the subscreen from display to change mode and make changes as needed.

						Figure
MM - PURCH	ASING DO	CUM	ENTS	S		
Datatype Kind	File ID	Primary	Prima	ary Date Fie	eld	
Transactional	MM_PD					-
		1 🕎 1 🖪				
Linkages [ Change	e Mode ]					
Recipient DT		VBF	AIn	active		
CA - CHANGE DO	CUMENTS	8				
CA - FOREIGN TH	RADE (EXP/IMP)			<b>V</b>		
CA - OUTPUT ST.	ATUS					
CA - TEXT						
CA - VENDOR M	ASTER			<b>V</b>		
	ENT LINE ITEMS			<b>v</b>		*
	30.0.	2	44			
CA - CHANGE DOCU	MENTS					
DpPar_ AND/OR N_	Rec. Tab. Recip. I	Field (	Operator	Prv. Field	Value	CIPa
ð	CDHDR OBJEC	TCLAS I	EQ		'EINKBELEG'	
AND	CDHDR OBJEC	TID I	IKE	EBELN		

#### Using Scenario Variables in Provider to Recipient Linkages

Variables that are used in Scenario Segments can also be leveraged when linking data types together within the Gold Client configuration. In this example, a variable named "BUKRS" (Company Code) has a scenario variable created for it with an assigned value of '2100' (Fig. 10.0)

Figure 10.0

### Display View "Variables for scenario sql": Overview

2					
	Variables for scenario	sql			
	Variable	Data element	As Entered	As stored in DB	<b>111</b>
	AWTYP	AWTYP	BKPF	BKPF	
	BUKRS	BUKRS	2100	2100	
ľ	COUNTRY	LAND1	US	US	
	CURRENT_FY	MJAHR	2002	2002	
	END_DATE	ERDAT	12312002	20021231	
	START_DATE	ERDAT	01012002	20020101	
	TCURR_DATE	GDATU_INV	01011997	80029898	

If the user wants to leverage the variable as part of their Data Type linkage criteria, it can be selected in the dropdown on the Value column (Fig. 10.1).

	<b>I – FII</b> ata Type K					ENTS		FI_DOC		Fig
		1916	1		3	9 3				
	Linkages		_							
R	Recipien	DT				VBFA FL	Inactive			
_	CO - LINE ITEMS CO - PA (CE1S001)									
	FI - CONSOLIDATIONS			ONSOLIDATIONS						
	FI - GL ITEMS (FAGLFLEX)				LITEMS (FAGLFLEX)					
	FI - MATE	RIAL LED	OGER	(CKMI1)			~			
	CO - PA (	period all states	_	3000	<b>3</b> 0	1				
B	OpParen	AND/OR	NOT	Rec. Tab.	Recip	o. Field	Operat	or Prv. Field	Value	CIParen
	-			CE1S001	VRG	AR	=		·B.	
		AND		CE1S001	BUK	RS	=		BUKRS	
		AND		CE1S001	COP	A_AWTYP	=		'BKPF'	10
	5	AND		CE1S001	RBEI	_N	; ; = ;	BELNR		
	1	AND		CE1S001	GJAH	IR	=	GJAHR		

Rather than hard-coding the value of '2100', using the variable can be a time saver because the user can periodically update the variable and all Scenario Segments and Linkage Details calling that variable will automatically use the newly assigned value.

If a user attempts to delete a scenario variable that is used in a link to a Recipient Data Type, a warning message will appear informing the user that this deletion cannot occur until the scenario variable is removed from the linkage details within the Data Framework.

#### Data Snap Configuration

The Data Snap functionality enables the completion of the export in a one-step process. Simply select the data to be exported, input the relevant selection criteria and execute the process. As such, Data Snap must be configured for each relevant Data Type in order to allow for various user inputs which comprise their selection criteria. This screen has a similar look to SE16 except the user can build the selection screen themselves and may use multiple tables to do so.

Follow the steps below to configure a Data Snap screen:

- 1. Go to the main Gold Client screen (Transaction ZGOLD)
- 2. Select the Configuration button located in the bottom-right of the screen; this will lead to the Gold Client Setup Utility page. From here, select the executable named Data Echo located under the Data Framework folder.
- 3. Choose a Data Type and then select Data Snap located under the Data Type; this displays the Data Snap configuration, if any, that exists for the given Data Type (Fig 11.0).

								Figure 11.
Data Framework		SD - SA			NTC			
SD - REBATES	<b>^</b>	3D - 3A		JCOME	1113			
🕨 🍢 SD - RMA	•	DT Kind	Fi	e ID	Primary	Primary Date Field	Data Wave	No Data File
🕨 🍢 SD - S060		Transactiona	al Si	)_SD_	$\checkmark$	ERDAT	<b>√</b>	
🕨 🍢 SD - S136								
SD - SALES DOCS FROM PROD ORDERS								
SD - SALES DOCS TO CREDIT MEMO						1 🚱   🛃		
SD - SALES DOCS TO DEBIT MEMO								
SD - SALES DOCS TO RETURNS	- 1			Change M	1			
SD - SALES DOCUMENTS		Source	-	_	Req'd Se	I. Long Field Label		User Des
Tables		VBAK	KUNNR	$\checkmark$		Sold-to party		
・ 🖉 Linkages		VBAK	VBELN	$\checkmark$	$\checkmark$	Sales Document		
• 🌮 Subset Sync		VBAK	AUART	$\checkmark$		Sales Document T	уре	
• 🧭 Data Snap		VBAK	ERDAT	$\checkmark$		Date on Which Re	cord Was Creat	ed
• 🙀 Data Type Tags					<u> </u>			
Scenarios								
• 🔤 Export Memory Config								
SD - SALES DOCUMENTS FROM PO			5 (M) (		🖹 🖌 🕅	2		
SD - SALES DOCUMENTS NO DOC FLOV		Data Snap R	ecord Limi	t [ Display N	Iode ]			
SD - SHIPMENT COSTS		Data Limit D						
Image: Solution of the second seco		1,000 E						
		1,000 1						

- 4. Select the icon to convert the sub-screen from display to change mode
- 5. Now it is possible to make any necessary changes like those below (Fig. 11.1)
  - a. Add a new entry using the 'New row' icon
  - b. Delete an entry using the 'Delete row' icon
  - c. Set fields to be active or inactive
    - i. "Active" means that the field will appear on the Data Snap screen so that it is available for use
    - ii. At least one field <u>must</u> be set as active, and the purpose of this requirement is to help the export run in a more efficient manner
  - d. Set fields to be required or not
    - i. "Req'd Sel." means that this field <u>must</u> be populated with data when executing Data Snap exports
    - ii. At least one field <u>must</u> be set as required
  - e. Add user descriptions for fields, which if populated, are used instead of SAP's long field label

							Figu	re 11
SE	) - SAI	LES DO	CUME	NTS				
DT	Kind	File	ID	Primary	Primary Date Field	Data Wave	No Data File	е
Tra	nsactiona	I SD	_SD_	<	ERDAT	✓		
					🦻 🖪 🖪			
	Data Sna	ap Config [	Change M	ode]				
屘	Source	Source F	d Active	Req'd Sel	Long Field Label		User De	sc.
	VBAK	KUNNR	<ul><li>✓</li></ul>		Sold-to party			
	VBAK	VBELN	<ul><li>✓</li></ul>	<ul><li>✓</li></ul>	Sales Document			
	VBAK	AUART	<ul><li>✓</li></ul>		Sales Document Ty	/pe		
	VBAK	ERDAT	<ul><li>✓</li></ul>		Date on Which Red	ord Was Creat	ted	
	r							_

The tables and fields defined in the Data Snap configuration will appear on the Data Snap screen for the chosen data type. A check mark will be present in any fields requiring input. Data must be entered in the required fields; all other fields are optional entries (Fig. 11.2).

					Figure 11.2
Data Snap - 03/11/2020	@ 10:22:31				
④ Schedule Job	Save As Scenario	@ Import Options	Xubset Sync	炉 Data Transform	Job Monitor
Processing Options					
Export Description					
Date Calenting Others					
Data Selection Criteria					
Sales Document	M	to			
Sold-to party		to	1     1		
Created on		to			
Sales Document Type		to	<b></b>		
Processing Options Export Description Data Selection Criteria Sales Document Sold-to party Created on		to to to to		<sup>™</sup> Data Transform	Let doLet

If the Data Snap screen is accessed but displays this error, it simply means that the Data Snap screen has not yet been configured for the selected Data Type (Fig. 11.3). In other words, no tables and fields have been defined to represent the selection criteria that would be available for the user. At least one table and field must be defined within the Data Snap configuration in order to bypass this error.

Data Snap		Figure 11.3
Select Data Type:	CA - VENDOR MASTER	
Execute		

Datatype [CA - VENDOR MASTER] is not configured for Data Snap.

#### **Other Data Snap Config Changes**

If you want to change the maximum number of records that are permitted for the execution of a Data Snap export, this is maintained in the sub-screen below that of the screen definition in the field named 'Data Limit' (Fig. 11.4). The default parameter in Gold Client for all data types is 1,000 which aligns with Qlik's recommended best practice.

SD - SALES DOCUMENTS   DT Kind   File ID   You and the second limit [ Display Mode ]									Figure	ə 1
Transactional SD_SD_   SD_SD_ RDAT   Pata Snap Config [ Change Mode ]   Source Source Fid   Active Req'd Sel.   VBAK KUNNR   VBAK VBLN   VBAK VBLN   VBAK AUART   VBAK AUART   Autive Sales Document   VBAK REDAT   VBAK Compatibility   VBAK Compatibility   VBAK AUART   Image: Source Compatibility   VBAK Compatibility <td>SD</td> <td>- SAI</td> <td>ALES DO</td> <td>CUME</td> <td>NTS</td> <td></td> <td></td> <td></td> <td></td> <td></td>	SD	- SAI	ALES DO	CUME	NTS					
Image: Source Source Fld Active Req'd Sel. Long Field Label   VBAK   VBAK   VBAK   VBAK   VBAK   VBAK   VBAK   VBAK   Auart   Image: Source Source Fld Active Req'd Sel. Long Field Label   User De   VBAK   VBAK   VBAK   VBAK   VBAK   Image: Source Source Fld Active Req'd Sel. Long Field Label   User De   VBAK   VBAK   VBAK   VBAK   Date De   Date on Which Record Was Created	тк	Kind	File	ID	Primary	Primary Date Field	Data Wave	No	Data File	
Data Snap Config [ Change Mode ]  Source Source Fid Active Req'd Sel. Long Field Label User De VBAK KUNNR  VBAK VBELN  VBAK VBELN  VBAK AUART  VBAK AUART  VBAK ERDAT  VBAK ERDAT  Date on Which Record Was Created	ran	sactiona	nal SD_	SD_	✓	ERDAT	✓			
Data Snap Config [ Change Mode ]  Source Source Fld Active Req'd Sel. Long Field Label User De VBAK KUNNR  VBAK VBELN  VBAK VBELN  VBAK AUART  Sales Document Type VBAK ERDAT  VBAK ERDAT  Date on Which Record Was Created										
Data Snap Config [ Change Mode ]  Source Source Fid Active Req'd Sel. Long Field Label User De VBAK KUNNR  VBAK VBELN  VBAK VBELN  VBAK AUART  VBAK AUART  VBAK ERDAT  VBAK ERDAT  Date on Which Record Was Created										
Source Source Fld Active Req'd Sel. Long Field Label User Determine   VBAK KUNNR Image: Sold-to party Sold-to party   VBAK VBELN Image: Sold-to party Sales Document   VBAK AUART Image: Sold-to party Sales Document   VBAK AUART Image: Sold-to party Sales Document   VBAK AUART Image: Sold-to party Image: Sold-to party   VBAK ERDAT Image: Sold-to party Image: Sold-to party   Image: Sold-to party Image: Sold-to party Image: Sold-to party   VBAK ERDAT Image: Sold-to party Image: Sold-to party   Image: Sold-to party Image: Sold-to party Image: Sold-to party   Image: Sold-to party Image: Sold-to party Image: Sold-to party   Image: Sold-to party Image: Sold-to party Image: Sold-to party   Image: Sold-to party <td></td> <td>9 =</td> <td>i 7 M</td> <td></td> <td></td> <td>ها 🔂 ا</td> <td></td> <td></td> <td></td> <td></td>		9 =	i 7 M			ها 🔂 ا				
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Additionally, a new field named 'Default Dt' was added in release 8.6.1 (Fig. 11.5). To understand the purpose of this field it is first helpful to know that Data Snap functionality has been enhanced in this release to allow users to export data volumes up to the maximum (the value defined within the 'Data Limit' field for the given Data Type) even though their selection criteria finds more than the max allowed. In previous versions, if the user's selection criteria found more than the max allowed, their only options were to granularize their selection criteria and/or increase the data limit value.

Figure 11.5

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Since Data Snap will now allow users to proceed with their export, the question existed regarding what data should be included in the export. The Qlik team felt that it would be logical to allow for the option to be date-driven and that the selection most users would want is to export the most recent data working back in time historically until the max number of records were exported. Although using the Created-On date seems to be the most natural fit here, users have been given the ability to configure whatever date that is most suitable to their requirements.

The user can select from whatever date-related fields exist within the respective table. In the example of SD - SALES DOCUMENTS, since VBAK is the header table, the list of date fields available for section are those which are part of this table (Fig. 11.6). If the given data type does not have a default date value defined, the Data Snap export will simply export the first records found when querying the table.

						Figure 11.		
L					🔄 Restrict Value Rar	nge (1) 22 Entries found		
					Restrictions			
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		Data Snap	Record Lim	iit [	Field Name	Text		
	B	Data Li	Default Dt		ERDAT	Date on Which Record Was Created		
		1,000	ERDAT		ANGDT	Quotation/Inquiry is valid from		
					BNDDT	Date until which bid/quotation is bindi		
					AUDAT	Document Date (Date Received/Sent)		
					GWIDT	Warranty Date		

Figure 12.0

#### Inactive Feature on Recipient Data Types

When displaying Recipient Data Types there is a column enabling the user to make a Recipient Data Type inactive, if for any reason it is not needed. To make this change, do the following:

- 1. Go to the main Gold Client screen (Transaction ZGOLD)
- 2. Select the Configuration button located in the bottom-right of the screen; this will lead to the Gold Client Setup Utility page. From here, select the executable named Data Echo located under the Data Framework folder.
- 3. Choose a Data Type and then select Linkages located under the Data Type; this displays any Data Type Linkages which exist for the selected Data Type in the sub-screen on the right (Fig 12.0).

Gold Client Data Framework						
🛃 Create 👫 Copy 🔂 Delete 🌾 Master Data	Type Fransaction Data	Type 🍞 Pri	mary Data	Type	😽 Display All	Classic
Data Framework	SD - SALES DOCU	MENTS				
Tables     Tables     M Linkages	Datatype KindFile IDTransactionalSD_SD_	Primary	Primary ERDAT	Date Field		
Subset Sync     Data Snap     Go Scenarios     Export Memory Config	[이 음 후 [6] [ 고 đ Linkages [ Display Mode ]	<mark>, ()</mark> (	9	_	•	
SD - SALES DOCUMENTS FROM PO     SD - SALES DOCUMENTS NO DOC FLOV     SD - SALES DOCUMENTS NO DOC FLOV     SD - SHIPMENT COSTS	Recipient DT CA - CHANGE DOCUMENTS CA - OUTPUT STATUS		VBFA FI.	Inactive		
<ul> <li>B SD - SHIPMENTS</li> <li>B SD - SHIPMENTS FROM FLOW</li> </ul>	CA - TEXT FI - REVENUE RECOGNITION					
B SD - TRADING CONTRACTS     B SEC - USER DATA     M TR - BANKING STATEMENTS	LINK - BILLING TO FIN DOCS LINK - OBJECT TO SRRELRO LINK - SALES DOCS TO CON	LES		<ul> <li></li> <li><td></td><td></td></li></ul>		
<ul> <li>ITR - BANKING STATMNTS W/ PAYADV</li> <li>ITR - CFM TRANSACTIONS</li> </ul>	LINK - SALES DOCS TO CON LINK - SALES ORDER ITEMS LINK - SD DOC TO CUSTOME					
Control Contro Control Control Control Control Control Control Control Control Co	MM - MATERIAL DOCUMENT MM - PURCHASING DOCUMEN	-				
WM - POSTING CHANGE NOTICES	SD - BILLING DOCUMENTS					

- 4. Select the *icon* to convert the sub-screen from display to change mode
- 5. Now it's possible to inactivate or activate any Recipient Data Types
  - a. Checking a box in the Inactive column inactivates the link and thereby <u>excludes</u> that Data Type from the data export process
  - b. Un-checking a box in the Inactive column activates the link and thereby <u>includes</u> that Data Type in the data export process
- 6. Save your changes

#### **VBFA Filtering Option in Utilities**

VBFA Filtering is an advanced feature that links to a Recipient Data Type, with vBFA as the header. The user may identify a unique header in one of two ways:

- Uniqueness of the combination of subseq. doc ONLY
- Uniqueness of the combination of subseq. doc and subsequent POSNR
- INFORMATION FROM TEAM NEEDED HERE FOR LINE FILTER F
- INFORMATION FROM TEAM NEEDED HERE FOR LINE FILTER H

To enable or disable this function in the Recipient Data Type with VBFA as the header, select VBFA Filt. to choose either one of these options (Fig. 13.0).

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ecipient DT		V	BFA Inactive		
INK - SD OBJECT TO		AN			•
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VBFA Filter Inst	truct Sho	rt Descri	pt.		
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A		1005 00 0	VBELN>POSNN		
F		ang ang ang Karawa	VBELV>POSNV		
н	Line	specific:	VBELV>VBELN	>POSNN>VBT	YP_N

## **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.

Corporate Offices:

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1-877-484-8982 (Toll Free in the USA)