

**Change Pointers  
User Guide  
8.7**

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## Introduction

In Gold Client 8.7.4, Change Pointer functionality has been introduced for the creation of Change Pointer records while importing data into a target system. For Change Pointers to be created for imported data into a target system, an application setting within Gold Client must be set and two Change Pointer tables for Gold Client must also be maintained, both of which are documented in this User Guide.

This User Guide is intended for a user who has experience in the Change Pointer/Data Replication Functionality and understands the technical components behind Change Pointers within their SAP environment.

It is important to note that analysis will need to be done in the SAP environment and the BDCP2 table to properly populate the entries in the Gold Client Change Pointer Tables (/HTG/CHPTR\_H and /HTG/CHPTR\_D). Please contact Qlik Support if help is needed with analysis and maintaining the Change Pointer Tables or questions regarding this solution.

After the application setting and the two Gold Client Change Pointer tables have been maintained, when data is being imported into a target client that corresponds to the Change Pointers you have configured in the tables, unprocessed BDCP2 entries will be created for the data that is being imported. These BDCP2 records are created as unprocessed, so that standard SAP Programs (such as RBDMIDOC) or custom programs your organization may use, can trigger the processing of the BDCP2 entries to send to external systems.

## Change Pointer Configuration

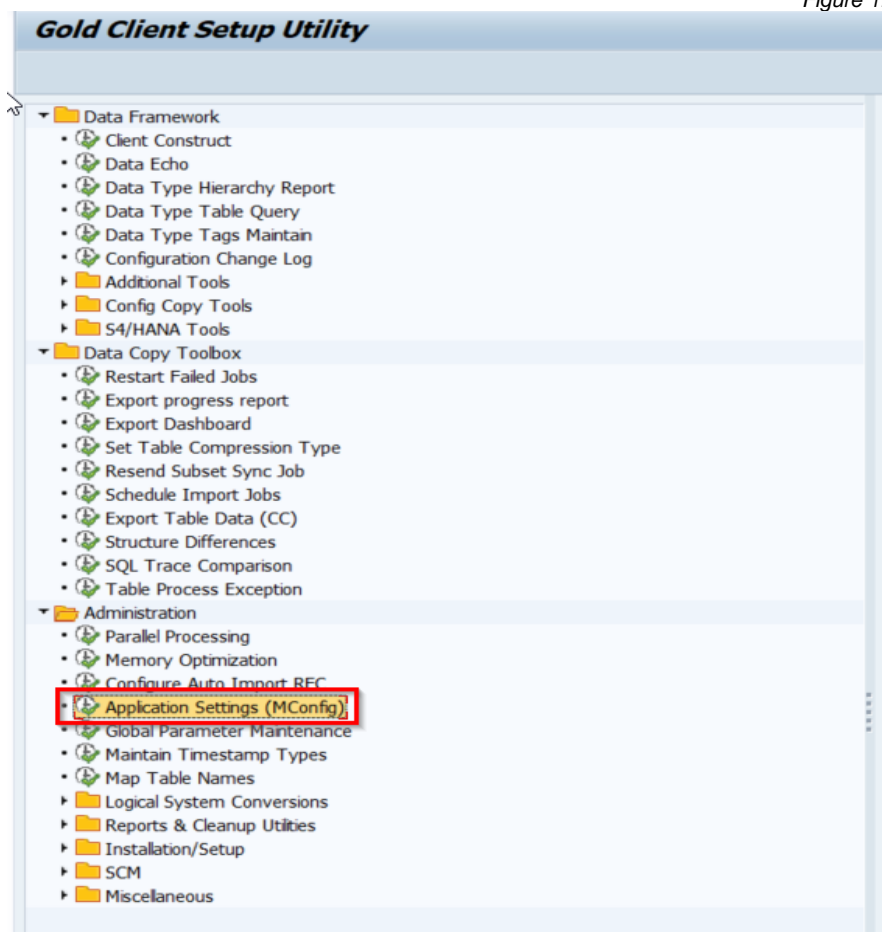
When using Change Pointers with Gold Client, there are two areas where Change Pointer configuration must be maintained for these entries to update the BDCP2 table in your SAP environment during importing of Gold Client data. While Change Pointer configuration is not required to be maintained in the source system, it is required in the target system to generate Change Pointers. Recommended best practices include maintaining Gold Client Configuration in the source system. If maintaining the Change Pointer Configuration only in the target environments (and not in the source system), Qlik recommends taking a backup of this Configuration so the Change Pointer configuration can be repopulated post-system refresh or new client build.

The first area that must be maintained is within the Application Settings (Mconfig) area within Gold Client (ZGOLD). The second area that must be maintained are within two tables (in the Gold Client namespace) named /HTG/CHPTR\_H and /HTG/CHPTR\_D (this is maintained via SM30).

## Change Pointer Configuration in Application Settings

The first setting that needs to be maintained is the Application Setting **GENERATE\_CHANGE\_POINTERS**. To find this setting, go to /HTG/ZGOLD → Configuration → Administration → Application Settings (Mconfig) (Fig. 1.0).

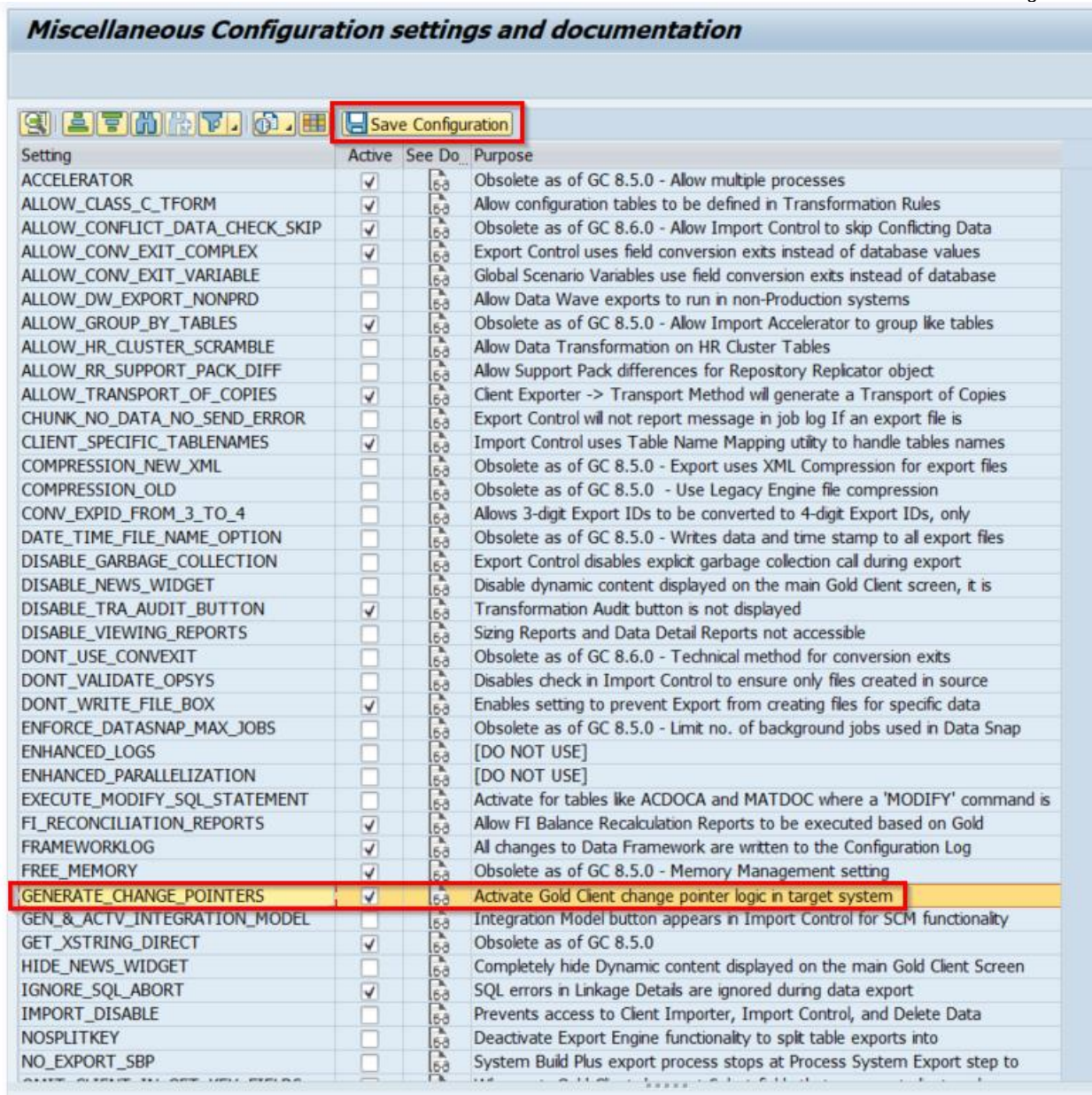
Figure 1.0



In the list, find the application setting GENERATE\_CHANGE\_POINTERS (Fig. 1.1). By default, Qlik will deliver this setting as inactive. To generate Change Pointers, this setting needs to be activated. Once the checkbox has been set to active, be sure to select the Save Configuration button to save changes.

Figure 1.1

**Miscellaneous Configuration settings and documentation**



Setting	Active	See Do.	Purpose
ACCELERATOR	<input checked="" type="checkbox"/>	6.0	Obsolete as of GC 8.5.0 - Allow multiple processes
ALLOW_CLASS_C_TFORM	<input checked="" type="checkbox"/>	6.0	Allow configuration tables to be defined in Transformation Rules
ALLOW_CONFLICT_DATA_CHECK_SKIP	<input checked="" type="checkbox"/>	6.0	Obsolete as of GC 8.6.0 - Allow Import Control to skip Conflicting Data
ALLOW_CONV_EXIT_COMPLEX	<input checked="" type="checkbox"/>	6.0	Export Control uses field conversion exits instead of database values
ALLOW_CONV_EXIT_VARIABLE	<input type="checkbox"/>	6.0	Global Scenario Variables use field conversion exits instead of database
ALLOW_DW_EXPORT_NONPRD	<input type="checkbox"/>	6.0	Allow Data Wave exports to run in non-Production systems
ALLOW_GROUP_BY_TABLES	<input checked="" type="checkbox"/>	6.0	Obsolete as of GC 8.5.0 - Allow Import Accelerator to group like tables
ALLOW_HR_CLUSTER_SCRAMBLE	<input type="checkbox"/>	6.0	Allow Data Transformation on HR Cluster Tables
ALLOW_RR_SUPPORT_PACK_DIFF	<input type="checkbox"/>	6.0	Allow Support Pack differences for Repository Replicator object
ALLOW_TRANSPORT_OF_COPIES	<input checked="" type="checkbox"/>	6.0	Client Exporter -> Transport Method will generate a Transport of Copies
CHUNK_NO_DATA_NO_SEND_ERROR	<input type="checkbox"/>	6.0	Export Control will not report message in job log if an export file is
CLIENT_SPECIFIC_TABLENAMES	<input checked="" type="checkbox"/>	6.0	Import Control uses Table Name Mapping utility to handle tables names
COMPRESSION_NEW_XML	<input type="checkbox"/>	6.0	Obsolete as of GC 8.5.0 - Export uses XML Compression for export files
COMPRESSION_OLD	<input type="checkbox"/>	6.0	Obsolete as of GC 8.5.0 - Use Legacy Engine file compression
CONV_EXPID_FROM_3_TO_4	<input type="checkbox"/>	6.0	Allows 3-digit Export IDs to be converted to 4-digit Export IDs, only
DATE_TIME_FILE_NAME_OPTION	<input type="checkbox"/>	6.0	Obsolete as of GC 8.5.0 - Writes data and time stamp to all export files
DISABLE_GARBAGE_COLLECTION	<input type="checkbox"/>	6.0	Export Control disables explicit garbage collection call during export
DISABLE_NEWS_WIDGET	<input type="checkbox"/>	6.0	Disable dynamic content displayed on the main Gold Client screen, it is
DISABLE_TRA_AUDIT_BUTTON	<input checked="" type="checkbox"/>	6.0	Transformation Audit button is not displayed
DISABLE_VIEWING_REPORTS	<input type="checkbox"/>	6.0	Sizing Reports and Data Detail Reports not accessible
DONT_USE_CONVEXIT	<input type="checkbox"/>	6.0	Obsolete as of GC 8.6.0 - Technical method for conversion exits
DONT_VALIDATE_OPSYS	<input type="checkbox"/>	6.0	Disables check in Import Control to ensure only files created in source
DONT_WRITE_FILE_BOX	<input checked="" type="checkbox"/>	6.0	Enables setting to prevent Export from creating files for specific data
ENFORCE_DATASNAP_MAX_JOBS	<input type="checkbox"/>	6.0	Obsolete as of GC 8.5.0 - Limit no. of background jobs used in Data Snap
ENHANCED_LOGS	<input type="checkbox"/>	6.0	[DO NOT USE]
ENHANCED_PARALLELIZATION	<input type="checkbox"/>	6.0	[DO NOT USE]
EXECUTE_MODIFY_SQL_STATEMENT	<input type="checkbox"/>	6.0	Activate for tables like ACDOCA and MATDOC where a 'MODIFY' command is
FI_RECONCILIATION_REPORTS	<input checked="" type="checkbox"/>	6.0	Allow FI Balance Recalculation Reports to be executed based on Gold
FRAMEWORKLOG	<input checked="" type="checkbox"/>	6.0	All changes to Data Framework are written to the Configuration Log
FREE_MEMORY	<input checked="" type="checkbox"/>	6.0	Obsolete as of GC 8.5.0 - Memory Management setting
<b>GENERATE_CHANGE_POINTERS</b>	<input checked="" type="checkbox"/>	6.0	<b>Activate Gold Client change pointer logic in target system</b>
GEN_&_ACTV_INTEGRATION_MODEL	<input type="checkbox"/>	6.0	Integration Model button appears in Import Control for SCM functionality
GET_XSTRING_DIRECT	<input checked="" type="checkbox"/>	6.0	Obsolete as of GC 8.5.0
HIDE_NEWS_WIDGET	<input type="checkbox"/>	6.0	Completely hide Dynamic content displayed on the main Gold Client Screen
IGNORE_SQL_ABORT	<input checked="" type="checkbox"/>	6.0	SQL errors in Linkage Details are ignored during data export
IMPORT_DISABLE	<input type="checkbox"/>	6.0	Prevents access to Client Importer, Import Control, and Delete Data
NOSPLITKEY	<input type="checkbox"/>	6.0	Deactivate Export Engine functionality to split table exports into
NO_EXPORT_SBP	<input type="checkbox"/>	6.0	System Build Plus export process stops at Process System Export step to

## Change Pointer Configuration Tables

After maintaining the Change Pointer Application Settings, the two Gold Client Tables (**/HTG/CHPTR\_H** and **/HTG/CHPTR\_D**) need to be maintained to generate Change Pointers in the Gold Client Target System.

Table **/HTG/CHPTR\_H** is the header table for the Change Pointer records that are created. This table needs an entry for every Table and Message Type Combination that generates Change Pointers in BDCP2. Table **/HTG/CHPTR\_H** contains the following fields (Fig. 1.2):

Figure 1.2

The screenshot shows the 'Dictionary: Display Table' window for the table **/HTG/CHPTR\_H**. The table is active and its short description is 'Configuration Table for Change Pointers during Import'. The 'Fields' tab is selected, displaying a list of fields with their properties.

Field	Key	Inti...	Data element	Data Type	Length	Decim...	Short Description
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3		0 Client
DATATYPE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/HTG/GC_DATATYPE	CHAR	32		0 Data Type
TABlename	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/HTG/GC_TABLena..	CHAR	30		0 Table Name
BDCP2TABlename	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/HTG/BDCP2_TABN..	CHAR	30		0 Tablename for BDCP2 Change Pointer Entries
MESTYPE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDI_MESTYP	CHAR	30		0 Message Type
FLDNAME	<input type="checkbox"/>	<input type="checkbox"/>	FIELDNAME	CHAR	30		0 Field Name
CDOBJCL	<input type="checkbox"/>	<input type="checkbox"/>	CDOBJECTCL	CHAR	15		0 Object class
CDOBJID	<input type="checkbox"/>	<input type="checkbox"/>	CDOBJECTV	CHAR	90		0 Object Value
CDCHGID	<input type="checkbox"/>	<input type="checkbox"/>	CDCHNGIND	CHAR	1		0 Change Type (U, I, E, D)
ACTIVE	<input type="checkbox"/>	<input type="checkbox"/>	/HTG/GLC_ACTIVE	CHAR	1		0 Gold Client Active Flag
CP_TYPE	<input type="checkbox"/>	<input type="checkbox"/>	/HTG/CP_TYPE	CHAR	1		0 Change Pointer Process Type
FUNCTION	<input type="checkbox"/>	<input type="checkbox"/>	/HTG/GLC_FUNC_N..	CHAR	30		0 Gold Client Name of Function Module

- **DATATYPE:** this field is used to signify whether a particular data type is needed for the Change Pointers.
  - This could be used in instances where only a certain table from a certain type of data to generate Change Pointers and where other Change Pointers are not needed for other data objects
  - For example, a user only wants Address Records related to Customer Master data to generate Change Pointers, but do not want Change Pointers generated for addresses related to Vendors, Business Partners, etc.
  - Enter the data type which links downstream from the Customer Master area so that only those address records generate Change Pointers.
- **TABlename:** this field is the table name from which the data is being imported from the Gold Client files (examples include MARA, MARC, MLAN, MAKT)
- **BDCP2TABlename:** this field designates what the name of the BDCP2 table is for generating Change Pointers (*in the Material Master space we import table MLAN, but the BDCP2 table name (or structure is DMLAN)*). Determine whether the table name is the same as within the file or a different value, based on a structure
- **MESTYPE:** This field denotes which Message Type will be generated for the data during the import process (examples: MATMAS, DEBMAS, CREMAS)

- **FLDNAME:** This field provides Gold Client with the field name for the data (this is usually populated with value KEY, but other variations can be used; especially in cases where KEY is not used to generate Change Pointers and a different field instead)
- **CDOBJCL:** This field provides Gold Client with the Change Object class of the data (examples of this include *DEBI* – for customers, *KRED* – for vendors, *COND\_A* – for conditions, *MATERIAL* – for materials/articles, *ADRESSE* – for address related data)
- **CDOBJID** – This field provides Gold Client with the Change Object Value (this information is used for table fields that are used to populate the BDCP2 table entries for Change Pointers (example: MATNR for the Material Master Number, KUNNR for the Customer Master Number, LIFNR for the Vendor Master Number). This field can use concatenation for data that is from multiple fields or uses hard coded values)
- **CDCHGID:** This field is for the Change Type. In most cases with Gold Client, you would use the 'I' for insert and in rarer cases, 'U' for update
- **ACTIVE:** This field is used to turn on the Change Pointer functionality for each record within this table. If the record is not set as active, no Change Pointers will be generated during the import process even if entries are maintained in both the header and detail tables for Gold Client
- **CP\_TYPE:** This field is used to denote what type of Change Pointer Configuration is needed for the specific Table Name + BDCP2 Table Name + Message Type.
  - The 'C' value is for Configuration Table (*where the use of table /HTG/CHPTR\_D is required to generate the Change Pointers by the configuration maintained within the table*).
  - The 'F' value is used for a Function Module and there is no maintenance of /HTG/CHPTR\_D, as the Function Module creates the Change Pointers. Function Module are most widely used when standard configuration within the /HTG/CHPTR\_D table cannot be configured to generate Change Pointers.
- **FUNCTION:** This field is used to enter the Function Module that will be used to Generate Change Pointers. There are a few function modules that are delivered with the solution because standard configuration in the detail tables cannot properly generate Change Pointers and the use of the Function Module is needed to do this correctly. The current function modules being delivered with the Change Pointer solution include:
  - /HTG/CREATE\_CP\_MATMAS\_DMLAN
  - /HTG/CREATE\_CP\_GLMASST\_SKB1
  - /HTG/CREATE\_CP\_BOMMAT\_CDPOS).



Table **/HTG/CHPTR\_D** is the detail table for the Change Pointers configuration. This table is used in conjunction with the **/HTG/CHPTR\_H** table. If the entry in field **CP\_TYPE** for table **/HTG/CHPTR\_H** is set to 'C' (Configuration Table), this table needs to be populated with the details on how to populate the **TABKEY** field in the **BDCP2** table during the import of data in the target system.

This table contains the following fields (Fig. 1.3):

Figure 1.3

Field	Key	Inti...	Data element	Data Type	Length	Decim...	Short Description
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3		0 Client
TABlename	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/HTG/GC_TABLENA..	CHAR	30		0 Table Name
BDCP2TABlename	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/HTG/BDCP2_TABN..	CHAR	30		0 Tablename for BDCP2 Change Pointer Entries
MESTYPE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDI_MESTYP	CHAR	30		0 Message Type
COUNTER	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/HTG/COUNTER	INT1	3		0 Counter
FIELDV	<input type="checkbox"/>	<input type="checkbox"/>	/HTG/BDCP2_FIEL..	CHAR	30		0 Fieldname or Fixed Value
TRIMSPACES	<input type="checkbox"/>	<input type="checkbox"/>	/HTG/TRIMSPACES	CHAR	1		0 Trim spaces
TRUNCSTART	<input type="checkbox"/>	<input type="checkbox"/>	/HTG/TRUNCSTART	INT1	3		0 Starting position in field
TRUNCLength	<input type="checkbox"/>	<input type="checkbox"/>	/HTG/TRUNCLength	INT1	3		0 Length in field to extract

- **TABlename:** this field is for the table that is being imported with Gold Client that will generate the Change Pointers for the BDCP2 table. This field utilizes the same table name from the **/HTG/CHPTR\_H** table for the Message Type and Table Name combination
- **BDCP2TABlename:** this field designates what the name of the BDCP2 table is for generating Change Pointers (in the Material Master space we import table MLAN, but the BDCP2 table name is DMLAN). This field utilizes the same table name from the **/HTG/CHPTR\_H** table for the Message Type and Table Name Combination
- **MESTYPE:** This field denotes which Message Type will be generated for the data during the import process (examples: MATMAS, DEBMAS, CREMAS). This field utilizes the same Message Type from the **/HTG/CHPTR\_H** table for the corresponding entry
- **COUNTER:** This field denotes what position the field/characters from the table will be for the **TABKEY** field in BDCP2 (MANDT is typically 0 or 1, followed by the next field(s) from the table)
- **FIELDV:** This field denotes the table name field, or a fixed/blank value based on what Change Pointers are being generated
- **TRIMSPACES:** This is used when trimming of values from the field need to be used (*this field is not commonly used*)
- **TRUNCSTART:** This field is used to denote what the starting position would be within a table field, if the starting position of the value is not the first position (*this field is not commonly used*)
- **TRUNCLength:** This field is used when truncating the fields to show how many positions of data need to be utilized (*this field is not commonly used*)

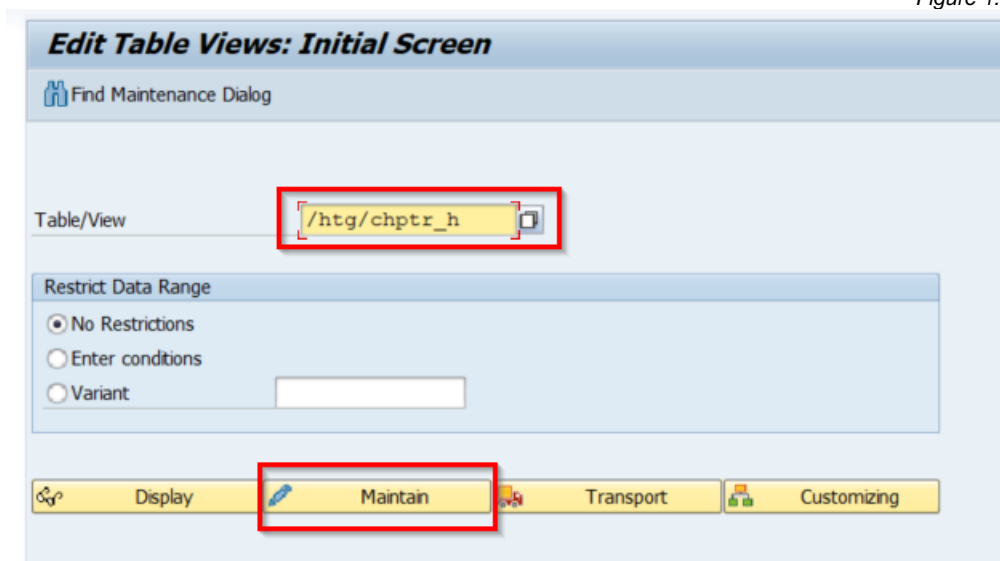
### **Maintaining the Gold Client Change Pointer Tables – Header Table (/HTG/CHPTR\_H)**

Currently, the only way to maintain the two Gold Client Change Pointer Tables are within transaction SM30.

The first table that needs to be maintained is the /HTG/CHPTR\_H table. This is the header table that defines which Change Pointers are generated in the BDCP2 table in your SAP Environment.

To maintain this table, go to transaction SM30 in your SAP system. Enter table /HTG/CHPTR\_H and then select Maintain (Fig. 1.4).

Figure 1.4

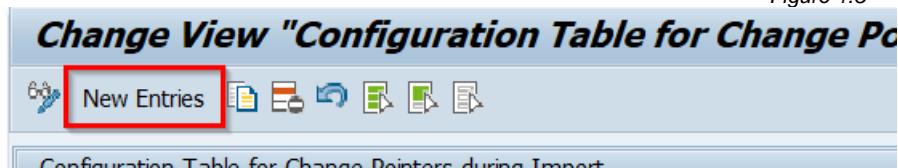


Below are examples of how the Gold Client Change Pointer tables can be configured within a user's SAP environment. More or less table and message type combinations can be used than what is shown below for the provided message type. It is important to analyze the SAP system for Change Pointer information when you configure the Gold Client Change Pointer Tables and to populate the Gold Client tables based on how the Change Pointers operate in the SAP environment.

Within the table, the following steps will need to be completed to configure this table.

1. Select New Entries near the top of the screen (Fig. 1.5)

Figure 1.5

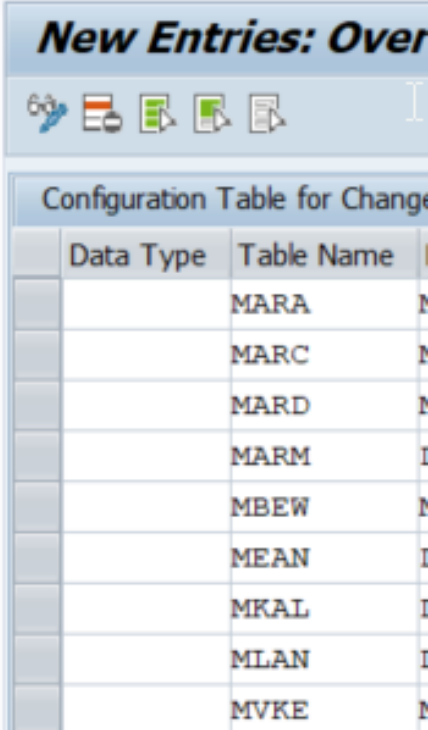


2. On the next screen, the first column within the table will be utilized to designate if you wish to use a specific data type to generate Change Pointers – as seen with the Data Type header (*as mentioned above, this functionality would be used in cases where you only want a certain type of data to generate Change Pointers in the target system, but*

those same tables are used for other areas of data as well. For example, you want to create change pointers for Customer Master addresses but not for Vendor Master addresses).

- a. This field is not required and only used for instances such as listed above.
  - b. Please note that some of our data types (such as the CA – CENTRAL ADDRESS MANAGEMENT data type) is used downstream from many areas (Customers, Vendors, Business Partners, Purchase Orders, etc.) within the Gold Client Framework.
  - c. If you require use of this field to specify a data type, you may find that you have to copy the standard data types we provide and link these newly copied data types downstream from the areas you are trying to target Change Pointers, so that the other (standard) data type does not generate Change Pointers during the import process.
3. The following field, Table Name, is for the table being imported by Gold Client into your target client (the table for which the file has been written out for).
- a. This is most often going to be an SAP data dictionary table in your organizations SAP environment
  - b. The table that is being imported into the target system *may not* match the table name in BDCP2 (which is why we have the next field for this process).
  - c. The example in the next screenshot (Fig. 1.6) is for MATMAS and are a *few* of the tables that may be configured for this message type

Figure 1.6



Configuration Table for Change	
Data Type	Table Name
	MARA
	MARC
	MARD
	MARM
	MBEW
	MEAN
	MKAL
	MLAN
	MVKE

4. Following the TABLENAME field, we have the BDCP2 Name field (BDCP2TABLENAME). Because the table name within the BDCP2 table can differ from the table name that is imported within Gold Client (due to the use of structures of tables), this is the field we populate what table name should be entered in to BDCP2 when Change Pointers are generated during the import process.
- a. For most cases, the table name entered in the TABLENAME field will be the same for BDCP2TABLENAME.

- b. In some cases, structures are used instead (in the material master space, these include the MLAN table that is imported, but structure DMLAN is utilized in BDCP2 or table MKAL is imported into the target client, but DMKAL is utilized in BDCP2).
- c. Fig. 1.7 displays the way the entries should be maintained when table names are the same in both entries and how it is maintained when they differ.

Figure 1.7

Data Type	Table Name	BDCP2 Name
	MARA	MARA
	MARC	MARC
	MARD	MARD
	MARM	DMARM
	MBEW	MBEW
	MEAN	DMEAN
	MKAL	DMKAL
	MLAN	DMLAN
	MVKE	MVKE

5. The next column within the table is for the Message Type. In the example provided (Fig. 1.8), we are focusing on materials and more specifically the MATMAS message type.
  - a. You may also find that certain data (like materials) requires multiple message types with the same type of configuration.
  - b. If this is the case, you will need to maintain the entries for each table and message type combination you wish to use.
  - c. With materials, you may find in your environment that both MATMAS and other message types like MATMAS\_CFS or MEREP\_DELTABO are utilized to generate Change Pointers.
  - d. Each of the Message Types will require their own configuration to be accurately generated during the import process.

Figure 1.8

New Entries: Overview of Added Entries				
Configuration Table for Change Pointers during Import				
Data Type	Table Name	BDCP2 Name	Message Type	
	MARA	MARA	MATMAS	C
	MARC	MARC	MATMAS	C
	MARD	MARD	MATMAS	C
	MARM	DMARM	MATMAS	C
	MBEW	MBEW	MATMAS	C
	MEAN	DMEAN	MATMAS	C
	MKAL	DMKAL	MATMAS	C
	MLAN	DMLAN	MATMAS	F
	MVKE	MVKE	MATMAS	C

6. The next column within the table is for the Field Name. This field corresponds to the FLDNAME field within your BDCP2 table.
  - a. This entry is usually designated with KEY for most Message Type and Table Combinations (Fig. 1.9).

- b. In your environment, you may find that a table and a message type does not use KEY for any entries in BDCP2. In this case, a new field will need to be selected, based on the entries in BDCP2 in your environment.
- c. We recommend finding a field name that utilizes an 'I' indicator; the Change Indicator Field in BDCP2 (CDCHGID), if possible.
- d. The KEY entry designates that for each table and message type, the key field of the tables are used to generate change pointer information.

Figure 1.9

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers during Import

Data Type	Table Name	BDCP2 Name	Message Type	Field Name
	MARA	MARA	MATMAS	KEY
	MARC	MARC	MATMAS	KEY
	MARD	MARD	MATMAS	KEY
	MARM	DMARM	MATMAS	KEY
	MBEW	MBEW	MATMAS	KEY
	MEAN	DMEAN	MATMAS	KEY
	MKAL	DMKAL	MATMAS	KEY
	MLAN	DMLAN	MATMAS	KEY
	MVKE	MVKE	MATMAS	KEY

- 7. For the Change Doc. Object column, this entry corresponds with the CDOBJCL field in your BDCP2 table.
  - a. For the MATMAS example, this uses MATERIAL as the Change Doc. Object and is configured in the example provided (Fig. 1.10 and Fig 1.11).
  - b. Other message types will utilize other change document objects. Analysis of the BDCP2 table will determine what the object will be within the Gold Client Configuration.

Figure 1.10

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers during Import

Data Type	Table Name	BDCP2 Name	Message Type	Change Doc. Object
	MARA	MARA	MATMAS	MATERIAL
	MARC	MARC	MATMAS	MATERIAL
	MARD	MARD	MATMAS	MATERIAL
	MARM	DMARM	MATMAS	MATERIAL
	MBEW	MBEW	MATMAS	MATERIAL
	MEAN	DMEAN	MATMAS	MATERIAL
	MKAL	DMKAL	MATMAS	MATERIAL
	MLAN	DMLAN	MATMAS	MATERIAL
	MVKE	MVKE	MATMAS	MATERIAL



Figure 1.11

**BDCP2: Display of Entries Found**

Search in Table: BDCP2 Aggregated Change Pointers (BDCP, BDCPS)

Number of hits: 160.747

Runtime: 00:00:01 Maximum no. of hits: 500.000

Msgg.Type	Chng.pntr	P	Table	Table Key Long	Field Name	Time created	Activation time	User	Object	Object Value
MATMAS	651793	X	MVKE	800T-MS07 100010	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651794	X	MPOP	800T-MS07 1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651795	X	MLGN	800T-MS07 001	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651796	X	MBEW	800T-MS07 1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651797	X	MARD	800T-MS07 10000001	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651798	X	MARC	800T-MS07 1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651799	X	MARA	800T-MS07	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651800	X	DMLAN	DE MWST	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651801	X	DMLAN	DE	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651802	X	DMARM	ST	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651803	X	DMAKT	d	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651804	X	DMAKT	W	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651805	X	DMAKT	S	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651806	X	DMAKT	R	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651807	X	DMAKT	P	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651808	X	DMAKT	J	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651809	X	DMAKT	G	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651810	X	DMAKT	F	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651811	X	DMAKT	E	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651812	X	DMAKT	D	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651813	X	DMAKT	6	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651814	X	DMAKT	5	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6
MATMAS	651815	X	DMAKT	4	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07 6

8. The Object Value column corresponds to what is populated in the BDCP2 table for field CDOBJID (Object Value).
  - a. The entries in the Gold Client Table (/HTG/CHPTR\_H) will not match what is the populated value in the BDCP2 table in your environment.
  - b. For the MATMAS Change Pointers, this field is entered in Gold Client as MATNR. This is because the MATNR (or Material Number) is what is utilized to populate the CDOBJID field in BDCP2.
  - c. We are specifying which field (and the field value of the data being imported) will be used when generating new Change Pointers in BDCP2.
  - d. In our example (Fig. 1.12 and Fig. 1.13), when we generate Change Pointers for Gold Client, we want the CDOBJID field to be the actual Material(s) being imported.
  - e. It is important to note that if the entries for this field require more than one field or need to utilize hard coded values this can be configured as such.
  - f. For multiple fields we utilize a ',' to separate the field names.
  - g. Fields requiring hard coded values, the values are encased in single quotations (' '). This use case is uncommon but is needed in a few instances where the value is a concatenation.

Figure 1.12

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers during Import

Data Type	Table Name	BDCP2 Name	Message Type	Object Value
	MARA	MARA	MATMAS	MATNR
	MARC	MARC	MATMAS	MATNR
	MARD	MARD	MATMAS	MATNR
	MARM	DMARM	MATMAS	MATNR
	MBEW	MBEW	MATMAS	MATNR
	MEAN	DMEAN	MATMAS	MATNR
	MKAL	DMKAL	MATMAS	MATNR
	MLAN	DMLAN	MATMAS	MATNR
	MVKE	MVKE	MATMAS	MATNR

Figure 1.13

**BDCP2: Display of Entries Found**

Search in Table: BDCP2 Aggregated Change Pointers (BDCP, BDCPS)

Number of hits: 160.747

Runtime: 00:00:01 Maximum no. of hits: 500.000

Msgg.Type	Chng.pnt	P	Table	Table Key Long	Field Name	Time created	Activation time	User	Object	Object Value
MATMAS	651793	X	MVKE	800T-MS07 100010	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651794	X	MPOP	800T-MS07 1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651795	X	MLGN	800T-MS07 001	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651796	X	MBEW	800T-MS07 1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651797	X	MARD	800T-MS07 10000001	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651798	X	MARC	800T-MS07 1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651799	X	MARA	800T-MS07	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651800	X	DMLAN	DE MWST	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651801	X	DMLAN	DE	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651802	X	DMARM	ST	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651803	X	DMAKT	d	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651804	X	DMAKT	W	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651805	X	DMAKT	S	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651806	X	DMAKT	R	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651807	X	DMAKT	P	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651808	X	DMAKT	J	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651809	X	DMAKT	G	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651810	X	DMAKT	F	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651811	X	DMAKT	E	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651812	X	DMAKT	D	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651813	X	DMAKT	6	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651814	X	DMAKT	5	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07
MATMAS	651815	X	DMAKT	4	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL	T-MS07

9. The Change Indicator field corresponds to the CDCHGID field within BDCP2.
  - a. When populating this field within the Gold Client table, a drop-down will appear that will allow you to select what type of indicator you would like to use.
  - b. Gold Client only allows for Change Pointers to be generated when importing data, so the only indicators that can be used are 'I' for insert or 'U' for update (Fig 1.14).
  - c. In most cases within the Gold Client Configuration, we utilize the 'I' insert indicator.
  - d. There may not be an 'I' indicator for a table and message type combination and instead only 'U' is used in your environment.
  - e. In these cases, we recommend you do utilize the 'U' indicator to match your BDCP2 entries.

- f. Fig. 1.15 and 1.16 show the configuration of these entries in the Gold Client table and what is in BDCP2 for the corresponding entries

Figure 1.14

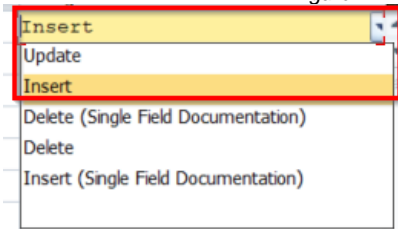


Figure 1.15

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers during Import

Data Type	Table Name	BDCP2 Name	Message Type	ChangeInd.
	MARA	MARA	MATMAS	Insert
	MARC	MARC	MATMAS	Insert
	MARD	MARD	MATMAS	Insert
	MARM	DMARM	MATMAS	Insert
	MBEW	MBEW	MATMAS	Insert
	MEAN	DMEAN	MATMAS	Insert
	MKAL	DMKAL	MATMAS	Insert
	MLAN	DMLAN	MATMAS	Insert
	MVKE	MVKE	MATMAS	Insert

Figure 1.16

**BDCP2: Display of Entries Found**

Search in Table: BDCP2 Aggregated Change Pointers (BDCP, BDCPS)

Number of hits: 160,747

Runtime: 00:00:01 Maximum no. of hits: 500,000

Messg.Type	Chng.pntr	Table	Table Key Long	Field Name	Time created	Activation time	User	Object	Object Value	Doc. no	ChangeIn
MATMAS	651793	MVKE	800T-MS07	100010	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651794	MPOP	800T-MS07	1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651795	MLGN	800T-MS07	001	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651796	MBEW	800T-MS07	1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651797	MARD	800T-MS07	100000001	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651798	MARC	800T-MS07	1000	KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651799	MARA	800T-MS07		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651800	DMLAN	DE MWST		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651801	DMLAN	DE		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651802	DMARM	ST		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651803	DMAKT	d		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651804	DMAKT	w		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651805	DMAKT	S		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651806	DMAKT	R		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651807	DMAKT	P		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651808	DMAKT	J		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651809	DMAKT	G		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651810	DMAKT	F		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651811	DMAKT	E		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651812	DMAKT	D		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651813	DMAKT	6		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651814	DMAKT	5		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I
MATMAS	651815	DMAKT	4		KEY	20081205151234	20081205151200	KUNITZ	MATERIAL T-MS07	619959	I

10. The Active column within the /HTG/CHPTR\_H table indicates whether the Change Pointer Configuration you maintained will generate Change Pointers or if no Change Pointers will be generated.



- a. When the active checkbox is selected (Fig. 1.17) Change Pointers will be generated during the import process.
- b. If the indicator is not selected as active no Change Pointers will be generated during the import process.

Figure 1.17

Data Type	Table Name	BDCP2 Name	Message Type	Active
	MARA	MARA	MATMAS	<input checked="" type="checkbox"/>
	MARC	MARC	MATMAS	<input checked="" type="checkbox"/>
	MARD	MARD	MATMAS	<input checked="" type="checkbox"/>
	MARM	DMARM	MATMAS	<input checked="" type="checkbox"/>
	MBEW	MBEW	MATMAS	<input checked="" type="checkbox"/>
	MEAN	DMEAN	MATMAS	<input checked="" type="checkbox"/>
	MKAL	DMKAL	MATMAS	<input checked="" type="checkbox"/>
	MLAN	DMLAN	MATMAS	<input checked="" type="checkbox"/>
	MVKE	MVKE	MATMAS	<input checked="" type="checkbox"/>

- 11. The Type Column is a drop-down list with two entries (Fig. 1.18 and Fig. 1.19).
  - a. One entry for Configuration Tables (in which the /HTG/CHPTR\_D table must be maintained for the TABKEY entries in BDCP2 of your Change Pointers) or if a Function Module holds the configuration that is needed to generate the Change Pointers TABKEY field in BDCP2.
  - b. It is more common to utilize the Configuration Tables entry then it is for Function Modules.
  - c. Function Modules are used when configuration in the /HTG/CHPTR\_D table is not possible to successfully generate Change Pointers, or the configuration needed is too complicated to maintain within the table itself.
  - d. Examples of when Function Modules are used are for the MLAN/DMLAN table and Bill of Materials (as Bill of Materials require Change Documents and Change Document Numbers to exist in the environment to generate and process successfully).

Figure 1.18

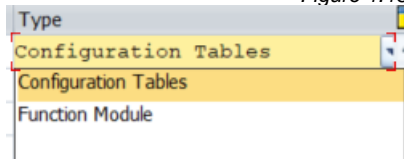
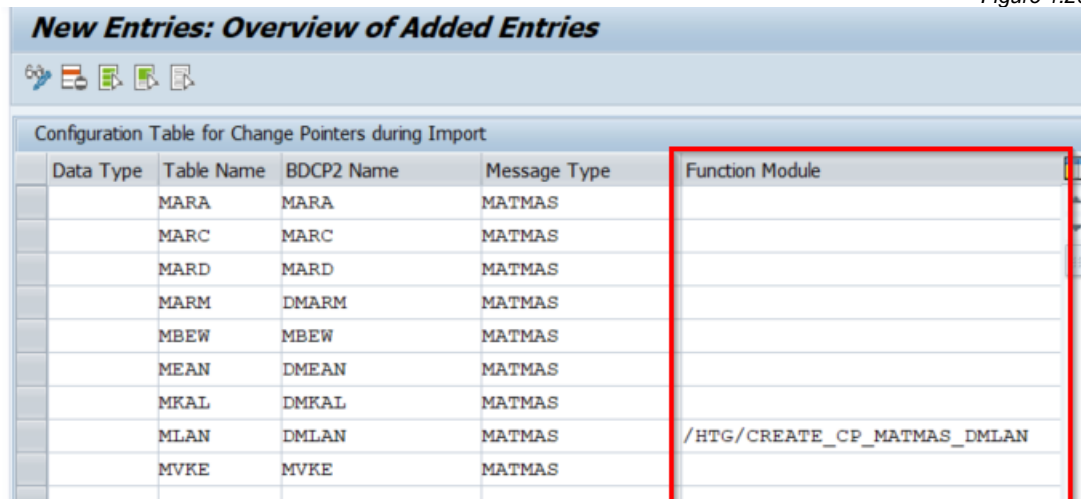


Figure 1.19

Data Type	Table Name	BDCP2 Name	Message Type	Type
	MARA	MARA	MATMAS	Configuration Tables
	MARC	MARC	MATMAS	Configuration Tables
	MARD	MARD	MATMAS	Configuration Tables
	MARM	DMARM	MATMAS	Configuration Tables
	MBEW	MBEW	MATMAS	Configuration Tables
	MEAN	DMEAN	MATMAS	Configuration Tables
	MKAL	DMKAL	MATMAS	Configuration Tables
	MLAN	DMLAN	MATMAS	Function Module
	MVKE	MVKE	MATMAS	Configuration Tables

12. The final column that *may be maintained* is the Function Module field. If the previous field (Type) was maintained with Function Module, then a Function Module will have to be entered in this field to generate Change Pointers due to the specifications within the Function Module (Fig. 1.20). If Function Module is used, then no configuration will need to be maintained in the /HTG/CHPTR\_D table.

Figure 1.20



Data Type	Table Name	BDCP2 Name	Message Type	Function Module
	MARA	MARA	MATMAS	
	MARC	MARC	MATMAS	
	MARD	MARD	MATMAS	
	MARM	DMARM	MATMAS	
	MBEW	MBEW	MATMAS	
	MEAN	DMEAN	MATMAS	
	MKAL	DMKAL	MATMAS	
	MLAN	DMLAN	MATMAS	/HTG/CREATE_CP_MATMAS_DMLAN
	MVKE	MVKE	MATMAS	

13. Once the configuration has been maintained, select the Save button at the top of the screen to save the Change Pointer Configuration. Be sure to select the Save button at regular intervals to make sure the changes are added to the tables successfully without losing work.

### ***Maintaining the Gold Client Change Pointer Tables – Detail Table (/HTG/CHPTR\_D)***

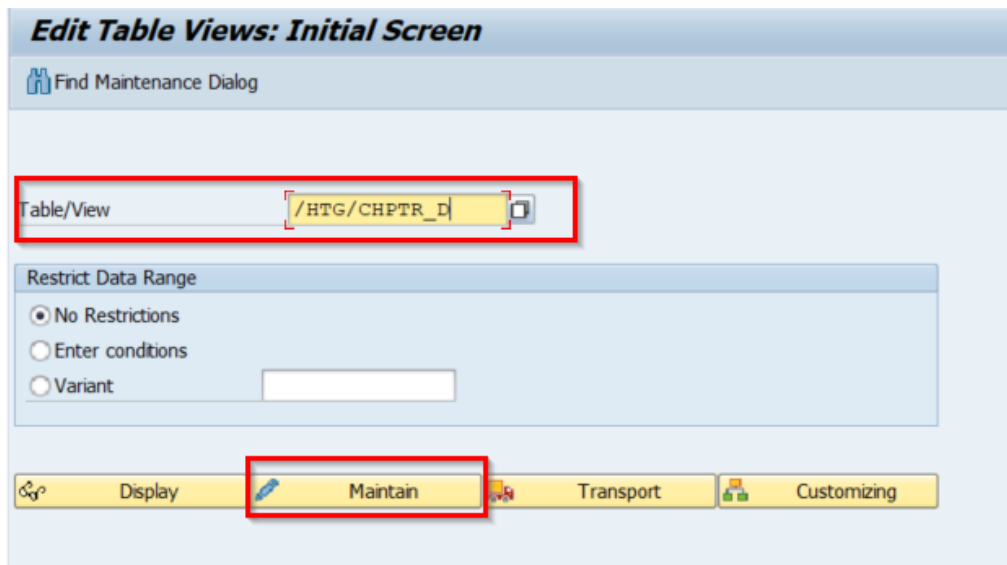
After maintaining table /HTG/CHPTR\_H, you will need to maintain table /HTG/CHPTR\_D for any entries that contain the 'Configuration Table' entry in the /HTG/CHPTR\_H table. It is important to note that there will likely be multiple entries for each table and message type combination as this table is what will populate the TABKEY field in BDCP2 during the Change Pointer Generation.

Typically, with the TABKEY field this is populated with MANDT (or CLIENT) along with the Primary Keys from the tables that are within the Message Type (however this is not always the case). This can be analyzed and verified in your environment by looking at BDCP2 for the specific message type and table combinations and comparing the entries in TABKEY to the entries they correspond with in the SAP tables which are creating the Message Types.

Unlike the maintenance of the /HTG/CHPTR\_H table, you may find that completing the configuration for this table is best done one Message Type and Table at a time. This way you can verify the correct entries are maintained within the table for these combinations.

To maintain this table, go to transaction SM30 in your SAP system. Enter table /HTG/CHPTR\_D and then select Maintain (Fig. 1.21).

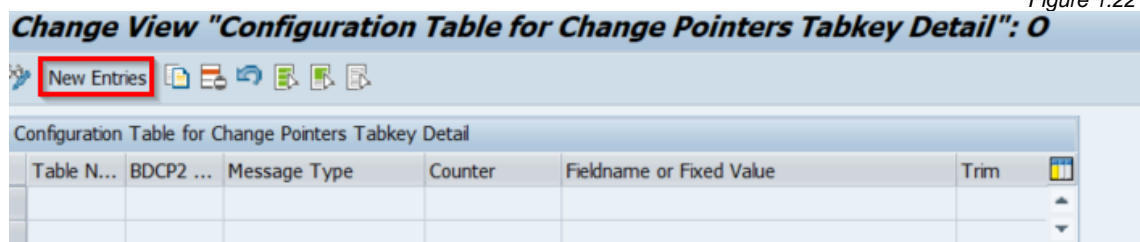
Figure 1.21



Within the table, the following steps will need to be completed to configure this table.

1. Select New Entries near the top of the screen (Fig. 1.22)

Figure 1.22



2. The first column in the /HTG/CHPTR\_D table is the TABLENAME field. These entries will correspond to the entry entered in /HTG/CHPTR\_H for the table and message type (Fig. 1.23).
  - a. It is important to note here that there must be an entry for each field that is utilized to generate the TABKEY entry.
  - b. In the example of the MARA table, both MANDT and MATNR are utilized to generate the TABKEY entry.
  - c. For table MARC, the system uses MANDT + MATNR + WERKS to generate the TABKEY.
  - d. Depending on how many Primary Keys exist on the tables you are maintaining will determine how many entries will need to be entered in this column.

Figure 1.23

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers Tabkey Detail

Table N...	BDCP2 ...	Message Type	Counter	Fieldname or Fixed Value
MARA	MARA	MATMAS	1	MANDT
MARA	MARA	MATMAS	2	MATNR
MARC	MARC	MATMAS	1	MANDT
MARC	MARC	MATMAS	2	MATNR
MARC	MARC	MATMAS	3	WERKS

3. The BDCP2TABLENAME is the following field that will need to be maintained. This entry should correspond to the entries from the /HTG/CHPTR\_H table.
  - a. If the table is the same table name in BDCP2, this should be populated.
  - b. If a structure is utilized, the structure name displayed in BDCP2 is entered in this field (Fig. 1.24).
  - c. For every entry maintained in the TABLENAME field the corresponding table (or structure) will need to be maintained as well.
  - d. In the example provided, you will see some of the entries contain numerous lines with the same tables as numerous fields are needed to maintain these entries

Figure 1.24

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers Tabkey Detail

Table N...	BDCP2 ...	Message Type	Counter	Fieldname or Fixed Value
MARA	MARA	MATMAS	1	MANDT
MARA	MARA	MATMAS	2	MATNR
MARC	MARC	MATMAS	1	MANDT
MARC	MARC	MATMAS	2	MATNR
MARC	MARC	MATMAS	3	WERKS
MARM	DMARM	MATMAS	1	MEINH
MKAL	DMKAL	MATMAS	1	WERKS
MKAL	DMKAL	MATMAS	2	VERID
MVKE	MVKE	MATMAS	1	MANDT
MVKE	MVKE	MATMAS	2	MATNR
MVKE	MVKE	MATMAS	3	VKORG
MVKE	MVKE	MATMAS	4	VTWEG

4. The Message Type field corresponds to the entry maintained in the Message Type field in /HTG/CHPTR\_H. The same value used in the header table should be maintained in this field in the Detail Table (Fig. 1.25). Every entry that is maintained in this table requires the Message Type to be maintained.

Figure 1.25

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers Tabkey Detail

Table N...	BDCP2 ...	Message Type	Counter	Fieldname or Fixed Value
MARA	MARA	MATMAS	1	MANDT
MARA	MARA	MATMAS	2	MATNR
MARC	MARC	MATMAS	1	MANDT
MARC	MARC	MATMAS	2	MATNR
MARC	MARC	MATMAS	3	WERKS
MARM	DMARM	MATMAS	1	MEINH
MKAL	DMKAL	MATMAS	1	WERKS
MKAL	DMKAL	MATMAS	2	VERID
MVKE	MVKE	MATMAS	1	MANDT
MVKE	MVKE	MATMAS	2	MATNR
MVKE	MVKE	MATMAS	3	VKORG
MVKE	MVKE	MATMAS	4	VTWEG

- The Counter Field is used to determine the order in which the fields or hard coded values (fieldname or fixed value) column need to be ordered in.
- The Qlik Team recommends analysis in BDCP2 and the corresponding tables for the Message Types to verify the number of fields that are needed and the order they need to go in.
- Most tables make use of the MANDT/CLIENT field when generating Change Pointers, so this is almost always in the first position (note: either a 1 or a 0 can be used for the MANDT field) and the other entries come after.
- There are a few tables that do not make use of the MANDT field and those are denoted by only having one entry (Fig. 1.26).
- Please verify in your system if the MANDT/CLIENT field is required.

Figure 1.26

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers Tabkey Detail

Table N...	BDCP2 ...	Message Type	Counter	Fieldname or Fixed Value
MARA	MARA	MATMAS	1	MANDT
MARA	MARA	MATMAS	2	MATNR
MARC	MARC	MATMAS	1	MANDT
MARC	MARC	MATMAS	2	MATNR
MARC	MARC	MATMAS	3	WERKS
MARM	DMARM	MATMAS	1	MEINH
MKAL	DMKAL	MATMAS	1	WERKS
MKAL	DMKAL	MATMAS	2	VERID
MVKE	MVKE	MATMAS	1	MANDT
MVKE	MVKE	MATMAS	2	MATNR
MVKE	MVKE	MATMAS	3	VKORG
MVKE	MVKE	MATMAS	4	VTWEG

5. The Fieldname or Fixed Value field is the field to enter the table fields or fixed values based on the order they create the TABKEY entries in the BDCP2 table.
  - a. In most cases, we will utilize the table name fields, but you may find where a hard coded value is required.
  - b. Hard coded values are entered with single quotations ( ` ` ) surrounding the value entered and will be on a line by itself.
  - c. If you are required to enter blank spaces, you can also denote this with single quotations surrounding the number of spaces needed.
  - d. It is important that the correct field names are entered and placed in the correct order in which the TABKEY entries are generated (Fig. 1.27).
  - e. If the wrong order is entered or the wrong fields are entered or a field is missing from the configuration, the Change Pointers will not generate in a way that is readable by the system and the data will not process successfully.
  - f. Another important thing to note is that it may appear like there are 'extra' spaces within the BDCP2 Change Pointers, however the Change Pointers are being generated with the field length in mind (meaning if your material is only 12 characters, it accounts for the extra spaces to equal the length of 18, so blank spaces aren't typically required).

Figure 1.26

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers Tabkey Detail

Table N...	BDCP2 ...	Message Type	Counter	Fieldname or Fixed Value
MARA	MARA	MATMAS	1	MANDT
MARA	MARA	MATMAS	2	MATNR
MARC	MARC	MATMAS	1	MANDT
MARC	MARC	MATMAS	2	MATNR
MARC	MARC	MATMAS	3	WERKS
MARM	DMARM	MATMAS	1	MEINH
MKAL	DMKAL	MATMAS	1	WERKS
MKAL	DMKAL	MATMAS	2	VERID
MVKE	MVKE	MATMAS	1	MANDT
MVKE	MVKE	MATMAS	2	MATNR
MVKE	MVKE	MATMAS	3	VKORG
MVKE	MVKE	MATMAS	4	VTWEG

- The Trim column is a check-box field. This field would only be utilized if part of a table field is needed, but not the entirety of the field. If trimming is needed for any table field, then you would want to mark the check box, so the system knows that trimming is needed for this data (Fig. 1.27). If this is selected, then the following two boxes will also need to be populated

Figure 1.27

The screenshot shows a software interface titled "New Entries: Overview of Added Entries". Below the title is a toolbar with several icons. The main content is a table titled "Configuration Table for Change Pointers Tabkey Detail". The table has seven columns: "Table N...", "BDCP2 ...", "Message Type", "Counter", "Trim", "Starting", and "Length". The "Trim" column contains a series of unchecked checkboxes. A red rectangular box highlights the entire "Trim" column.

Table N...	BDCP2 ...	Message Type	Counter	Trim	Starting	Length
MARA	MARA	MATMAS	1	<input type="checkbox"/>		
MARA	MARA	MATMAS	2	<input type="checkbox"/>		
MARC	MARC	MATMAS	1	<input type="checkbox"/>		
MARC	MARC	MATMAS	2	<input type="checkbox"/>		
MARC	MARC	MATMAS	3	<input type="checkbox"/>		
MARM	DMARM	MATMAS	1	<input type="checkbox"/>		
MKAL	DMKAL	MATMAS	1	<input type="checkbox"/>		
MKAL	DMKAL	MATMAS	2	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	1	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	2	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	3	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	4	<input type="checkbox"/>		

- The Starting column (used only in conjunction with the Trim checkbox) is to tell the solution what position you want to start to capture the data to generate the TABKEY record for this table and message type, when needing to only take a few lengths of the original field (Fig. 1.28). Depending on where to start the trimming process would determine what value should be entered here.

Figure 1.28

The screenshot shows the same software interface as Figure 1.27. The table "Configuration Table for Change Pointers Tabkey Detail" is displayed. In this view, the "Starting" column is highlighted with a red rectangular box. The "Trim" column still contains unchecked checkboxes.

Table N...	BDCP2 ...	Message Type	Counter	Trim	Starting	Length
MARA	MARA	MATMAS	1	<input type="checkbox"/>		
MARA	MARA	MATMAS	2	<input type="checkbox"/>		
MARC	MARC	MATMAS	1	<input type="checkbox"/>		
MARC	MARC	MATMAS	2	<input type="checkbox"/>		
MARC	MARC	MATMAS	3	<input type="checkbox"/>		
MARM	DMARM	MATMAS	1	<input type="checkbox"/>		
MKAL	DMKAL	MATMAS	1	<input type="checkbox"/>		
MKAL	DMKAL	MATMAS	2	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	1	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	2	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	3	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	4	<input type="checkbox"/>		

- The Length field is also used in conjunction with the Trim checkbox and the Starting Position field. The entry that is provided here tells Gold Client how long the trimmed section should be. Depending on the length of data to trim out of the field will determine what value is entered in the Length field (Fig. 1.29)

Figure 1.29

**New Entries: Overview of Added Entries**

Configuration Table for Change Pointers Tabkey Detail

Table N...	BDCP2 ...	Message Type	Counter	Trim	Starting	Length
MARA	MARA	MATMAS	1	<input type="checkbox"/>		
MARA	MARA	MATMAS	2	<input type="checkbox"/>		
MARC	MARC	MATMAS	1	<input type="checkbox"/>		
MARC	MARC	MATMAS	2	<input type="checkbox"/>		
MARC	MARC	MATMAS	3	<input type="checkbox"/>		
MARM	DMARM	MATMAS	1	<input type="checkbox"/>		
MKAL	DMKAL	MATMAS	1	<input type="checkbox"/>		
MKAL	DMKAL	MATMAS	2	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	1	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	2	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	3	<input type="checkbox"/>		
MVKE	MVKE	MATMAS	4	<input type="checkbox"/>		

9. To save the entries that have been entered in the /HTG/CHPTR\_D table, be sure to select the Save button at the top. As mentioned previously, you may find that doing a single table per message type one-by-one is the easiest way to maintain this table. If so, be sure to save as you progress with the configuration.



## **Support Information**

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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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