

Report for Copying ODTD*/ODTC* tables in FI Add-On ODTFIOFB to Customer Namespace

Purpose

This report is required for implementation of [note 2827255](#) Add-On ODTFIOFB in case of Upgrade to S/4 HANA.

The FI Add-On ODTFIOFB contains database tables ODTD_ER* / ODTC_ER* with extracted customer data of outdated SAP Cloud for Travel & Expense Solution.

The FI Add-On ODTFIOFB is not compatible with S/4 HANA and therefore must be uninstalled before upgrade to S/4 HANA. But uninstalling of the FI Add-On ODTFIOFB and the related package ODT_OFFB would lead to a loss of the extracted data.

Therefore, before uninstalling the Add-On customer must copy all tables (definition and data) with names ODTC_ER* and ODTD_ER* in package ODT_OFFB to a customer namespace, in order to save the data and to avoid that the data gets lost during the upgrade.

This report ZODT_COPY_ODTC_ODTD_ER_TABLES provides a tool for this copy function.

Detailed functionality

The report ZODT_COPY_ODTC_ODTD_ER_TABLES performs the following steps:

1. If the parameter “Copy Database Tables” is marked, it copies database table definition(s) specified in parameter “Database table name” (if the parameter is not specified, it selects all database tables starting with ODTD_ER* / ODTC_ER*) in ABAP Dictionary (SE11) to customer namespace starting with Z* or Y* (depending on parameter “Prefix for Cust. Objects Y/Z”) in customer package specified in parameter “Package”. Included structures and data elements from package ODT_OFFB are resolved and replaced by SAP basic data types so that the new database tables don’t contain any references to package ODT_OFFB anymore. The database table definitions can be transported (e.g. from Development to Production System) if a workbench request is specified in the parameter “Transport Tab.Def. Workbench”. In addition, the report creates a new mapping table ZODTC_ER_MAP_DBT (or YODTC_ER_MAP_DBT depending on parameter “Prefix for Cust. Objects Y/Z”) that contains the mapping between old database table (OLD_DBTAB_NAME) in SAP namespace package ODT_OFFB and new database table (NEW_DBTAB_NAME) in customer namespace. This mapping table serves as a log to store which database table definitions were already copied. The content of this mapping table can be transported (e.g. from Development to Production System) if a customizing request is specified in the parameter “Transport Mapping Customizing”.
2. If the parameter “Copy Data” is marked, the report copies the data from database table(s) specified in parameter “Database table name” (if the parameter is not specified it selects all database tables starting with ODTD_ER* / ODTC_ER*) to the corresponding new database tables stored in the new mapping table ZODTC_ER_MAP_DBT (or YODTC_ER_MAP_DBT depending on parameter “Prefix for Cust. Objects Y/Z”). After a successful and complete copy action it sets the flag “DATA_COPIED” for the related entry in mapping table ZODTC_ER_MAP_DBT (or YODTC_ER_MAP_DBT depending on parameter “Prefix for Cust. Objects Y/Z”). The mapping table serves as a log to store for which database table the data was already copied. If you have already copied the data for database table (DATA_COPIED = ‘X’), you cannot copy the data again unless you mark the parameter “Overwrite Data”. You can delete existing data in new database table(s) first if you mark the parameter “Delete Data in new Table first”. The copy action is performed package wise. You can specify the package size via the parameter “Package Size for Copy Data”. For database tables with a lot of entries it’s in addition recommended to start the report in

background.

Data Browser: Table ZODTC_ER_MAP_DBT Select Entries 8

MANDT	OLD_DBTAB_NAME	NEW_DBTAB_NAME	DATA_COPIED
500	ODTD_ER_REC_ADDT	ZDTD_ER_REC_ADDT	
500	ODTD_ER_SRPTPCOA	ZDTD_ER_SRPTPCOA	X
500	ODTD_ER_SRPT_ACC	ZDTD_ER_SRPT_ACC	X
500	ODTD_ER_SRPT_DUE	ZDTD_ER_SRPT_DUE	
500	ODTD_ER_SRPT_EXP	ZDTD_ER_SRPT_EXP	
500	ODTD_ER_SRPT_HIS	ZDTD_ER_SRPT_HIS	
500	ODTD_ER_SRPT_PA1	ZDTD_ER_SRPT_PA1	
500	ODTD_ER_SRPT_RE	ZDTD_ER_SRPT_RE	

Meaning of parameters

Copy ODTC_ER / ODTD_ER Tables to Customer Namespace

Database Table Name: ODTD_ER*

Prefix for Cust. Objects Y/Z: Z

Prefix 2 for Cust. Objects: X

☒ Copy Database Tables

Package: \$TMP

Transport Tab.Def. Workbench: Q16K900615

Transport Mapping Customizing: Q16K900619

☒ Copy Data

☐ Overwrite Data

☐ Delete Data in new Table first

Package Size for Copy Data: 15.000

☒ Test Mode (No Update)

The name starting with "P_" behind the backslash "/" is the technical name of the parameter in the coding.

Database Table Name / P_TABNAM = Database Table Name whose definition (Parameter "Copy Database Table" or data (Parameter "Copy Data") shall be copied. If the parameter is not specified, the report selects all database tables starting with ODTD_ER* and ODTC_ER*. This should result i in

46 database tables (2 starting with ODT_C_ER* and 44 starting with ODT_D_ER*) in total. In addition, it selects all customer specific database tables that are stored in table ODT_C_ER_ADM_MAP in field DB_TABLE_NAME for extension nodes (field NODE_NAME) ER_ROOT_EXT, ER_ROOT_MILEAGE_EXT, ER_ROOT_REC_BENEFICIARY_EXT, ER_ROOT_REC_EXT. If you don't specify this parameter, e.g. you want to perform the desired action for all tables, it's recommended to start the report in background, especially if you want to copy data, i.e. Parameter "Copy Data" is marked.

Prefix for Cust. Objects Y/Z / P_PREFIX = Prefix for new database tables in customer namespace, i.e. ODT_D_ER* will be copied to ZDT_D_ER* or YDT_D_ER*

Prefix 2 for Cust. Objects / P_PREFIX2 = If you want to copy a database table whose name starts already with the prefix specified in parameter "Prefix for Cust. Objects Y/Z" the report replaces the 2nd character by the prefix specified in parameter "Prefix 2 for Cust. Objects", e.g. if this parameter is set to "X", it replaces "ZDT" by "XDT". This may especially apply to customer specific database tables for extension nodes ER_ROOT_EXT, ER_ROOT_MILEAGE_EXT, ER_ROOT_REC_BENEFICIARY_EXT, ER_ROOT_REC_EXT.

Copy Database Tables / P_CPDBTB = If the parameter "Copy Database Tables" is marked, it copies database table definition(s) in ABAP Dictionary (SE11) to customer namespace starting with Z* or Y*.

Package / P_DEVCLS = Package in customer namespace where the new database table definitions and the mapping table definitions shall be assigned to.

Transport Tab.Def. Workbench / P_KORRNO = Workbench request for transport (e.g. from Development to Production System) of table definitions of new database tables and mapping table.

Transport Mapping Customizing / P_KORCUS = Customizing Request for transport (e.g. from Development to Production System) of data of mapping table ZODTC_ER_MAP_DBT (or YODTC_ER_MAP_DBT).

Copy Data / P_CPDATA = If the parameter "Copy Data" is marked, it copies the data from database table(s) to the corresponding new database tables stored in the new mapping table ZODTC_ER_MAP_DBT (or YODTC_ER_MAP_DBT).

Overwrite Data / P_OVERWR = If you have already copied the data for database table (DATA_COPIED = 'X' in mapping table ZODTC_ER_MAP_DBT or YODTC_ER_MAP_DBT), you cannot copy the data again unless you mark the parameter "Overwrite Data".

Delete Data in New Table first / P_DELETE = If you mark this parameter existing records in new database table(s) will be deleted first before records from old database table are copied. This is useful if you have already copied the data, but then deleted any data in the old source table and want to copy these deletions as well to the new table.

Package Size for Copy Data / P_PACKSZ = Package size for package wise copying of data

Test Mode (No Update) / P_TEST = If you mark the parameter "Test Mode" the report doesn't perform any updates in the Data Dictionary and on the database, i.e. doesn't perform any copy actions, but displays only all actions he would perform if the parameter "Test Mode" is not marked (= Update Mode).

Recommended Usage

1. Create a package in customer namespace and two transport requests (one workbench and one customizing request) in your test or development system.
2. Start the report ZODT_COPY_ODTC_ODTD_ER_TABLES in test or development system and copy the database table definitions by marking the parameter "Copy Database Tables". The new copies don't contain any data elements or structures from package ODT_OFFB anymore but only corresponding SAP basic data types / data elements. The mapping between old and new database table name is stored in the mapping table ZODTC_ER_MAP_DBT (or YODTC_ER_MAP_DBT).
3. Start the report ZODT_COPY_ODTC_ODTD_ER_TABLES in test or development system and copy the data to the related new database tables by marking the parameter "Copy Data". Do this in order to ensure that the copy data function works correctly in your test / development system.
4. Transport the new table definitions (in specified workbench request) and the content of the mapping table (in specified customizing request) to your production system. But please regard, that the copied data in the new database tables is not transported.
5. After having imported the transports to your productive system, please start there the report ZODT_COPY_ODTC_ODTD_ER_TABLES with the parameter "Copy Data" marked. For big tables use package wise processing and background processing.
6. As a result the mapping table ZODTC_ER_MAP_DBT (or YODTC_ER_MAP_DBT) in production system shall contain at least 46 database tables (2 starting with ODTC_ER* and 44 starting with ODTD_ER*) in total with DATA_COPIED = 'X'. In addition, there may be entries for customer specific database tables for extension nodes (field NODE_NAME in table ODTC_ER_ADM_MAP) ER_ROOT_EXT, ER_ROOT_MILEAGE_EXT, ER_ROOT_REC_BENEFICIARY_EXT, ER_ROOT_REC_EXT. You can repeat the copy action for one or all database tables if you mark the parameter "Overwrite Data".

Follow-Up Activities

After having copied all the database tables and their data please regard the following hints before you start uninstalling Add-On ODTFIOFB:

If you have created customer specific reports that are using or referring to tables ODT* or ODTD* you have to replace the related references in the coding by the corresponding new database table names starting with Z* or Y* according to mapping table ZODTC_ER_MAP_DBT or YODTC_ER_MAP_DBT.

```
*      SELECT * FROM otdt_er INTO TABLE gt_er WHERE exp_rep_id = ER_ID_L.  
      SELECT * FROM zdt_d_er INTO TABLE gt_er WHERE exp_rep_id = ER_ID_L.
```

This applies also to this report ZODT_COPY_ODTC_ODTD_ER_TABLES which uses table ODT*ER_ADM_MAP → to be replaced by ZODTC_ER_ADM_MAP or YODTC_ER_ADM_MAP.

If you have created customer specific reports that are using or referring to table types ODT*_ER* please replace them by the corresponding new database table and add the prefix “table of” (see tables Z(Y)ODTC_ER_ADM_MAP-TABLE_TYPE_NAME / DB_TABLE_NAME and the related entry in mapping table Z(Y)ODTC_ER_MAP_DBT):

Data Browser: Table ZODTC_ER_ADM_MAP Select Entries 44

MANDT	NODE_NAME	TRANS_NAME	TABLE_TYPE_NAME	DB_TABLE_NAME
500	ER_ROOT	ODT_TRANS_ER	ODT*_ER	ODTD_ER

Data Browser: Table ZODTC_ER_MAP_DBT Select Entries 1

MANDT	OLD_DBTAB_NAME	NEW_DBTAB_NAME	DATA_COPIED
500	ODTD_ER	ZODTC_ER	X

DATA:

```
* gt_er          TYPE odt*_er,  
gt_er          type table of zdt*_er,
```