



/THEO/READ_TABLE: Theobald Software custom function module for table extractions

General

/THEO/READ_TABLE is the successor to the previous custom function module: Z_THEO_READ_TABLE. The function module and the objects it depends on are located in /THEO/ namespace.

Versions

Due to important differences in ABAP and SAP features between different SAP releases, the function module has 3 engine versions – for SAP 4.6C, 7.10 and 740SP05 and newer. The version for 4.6C has 2 different transport requests. One for sap systems 4.6C and one for version 6.40 until (excluding) 7.10. This means in total there are 4 transport requests:

- /THEO/READ_TABLE for 46C
This version of /THEO/READ_TABLE can be installed on any SAP system with version 46C or newer. Thus, the oldest SAP version the function module can run on is 46C.

The corresponding transport request is located in: **THEO_READ_TABLE_46C.zip**.
In our landscape installed on: **SUPPSAP1**

- /THEO/READ_TABLE for 46C on systems 6.40 until (excluding) 7.10
This version can be installed on SAP systems 6.40 or newer.

The corresponding transport request is located in: **THEO_READ_TABLE_640.zip**.
NOTE: This is the same version as 4.6C, just with a different transport request so that it can be installed on versions 6.40+. This is because the transport request created on 46C can't be used on 6.40 and newer.

- /THEO/READ_TABLE for 7.10
This version can be installed on SAP systems 7.10 or newer.

The corresponding transport request is located in: **THEO_READ_TABLE_710.zip**.
In our landscape installed on: **EC5**

- /THEO/READ_TABLE for 7.40 SP05
This version can be installed on SAP systems 7.40 SP05 or newer and is the most feature complete /THEO/READ_TABLE version we have.

The corresponding transport request is located in: **THEO_READ_TABLE_740SP05.zip**.
In our landscape installed on: **SAPERP (dev)** and **s4h2021.theobald-software.com (prod)**

Features

Since all 3 supported SAP version ranges come with their own limitations, the supported features are also different in each /THEO/READ_TABLE engine version. The table below illustrates the supported features by engine version.

	46C	710	740
WHERE clause			
HAVING clause			
INNER JOIN			
LEFT OUTER JOIN			
Conversion exits			
Aggregate functions			
SQL expressions (subqueries)			
Background jobs			

Objects

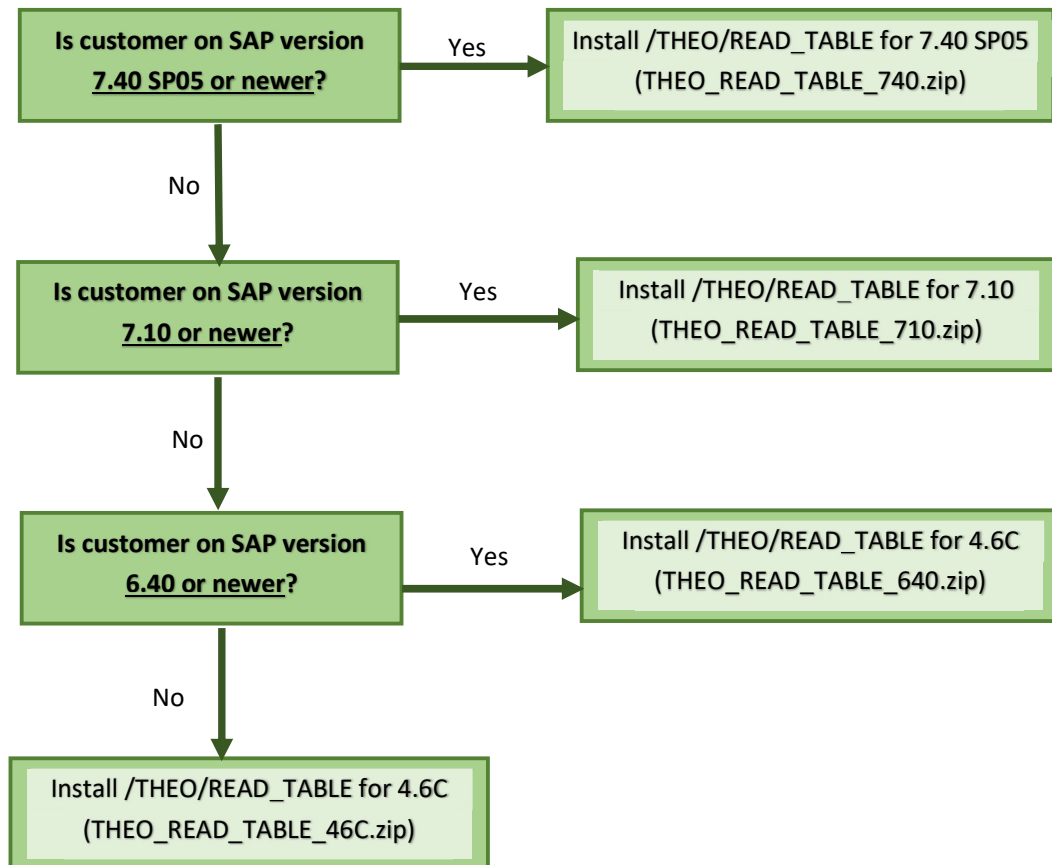
Each /THEO/READ_TABLE version has some objects that are unique to it. The table below illustrates the contents of each /THEO/READ_TABLE version.

	46C	710	740
Table Types			
/THEO/READ_TABLE_CONVERSIONS			
/THEO/READ_TABLE_FIELDS			
/THEO/READ_TABLE_JOINS			
/THEO/RFC_DB_OPTS			
/THEO/SOURCE_CODE			
/THEO/ORDER_BY_FIELDS			
/THEO/COLUMN_INDEXES			
Structures			
/THEO/PARAMETERS			
/THEO/BKG_JOBS			
/THEO/READ_TABLE_ERROR			
/THEO/READ_TABLE_FIELD			
/THEO/READ_TABLE_FIELD_CONV			
/THEO/READ_TABLE_JOIN			
/THEO/ORDER_BY_FIELD			
/THEO/CONVERSION			

Data elements			
/THEO/READ_TABLE_AGGREGATE			
/THEO/SOURCE_LINE			
Classes			
/THEO/CL_LOGGER			
/THEO/CL_LOGGER_RFC			
/THEO/CL_LOGGER_SHM			
/THEO/CL_PACKAGE_READER_DB			
/THEO/CL_PACKAGE_READER_DB_46C			
/THEO/CL_PACKAGE_READER_DB_710			
/THEO/CL_PACKAGE_READER_DB_740			
/THEO/CL_PACKAGE_WRITER			
/THEO/CL_PACKAGE_WRITER_RFC			
/THEO/CL_PACKAGE_WRITER_RFC_71			
/THEO/CL_RTTC			
/THEO/CL_RTTC_710			
/THEO/CL_PACKAGE_READER_SHM			
/THEO/CL_PACKAGE_WRITER_SHM			
/THEO/CL_READ_TABLE_SHM_AREA			
/THEO/CL_READ_TABLE_SHM_ROOT			
/THEO/CX_SHM_ATTACH_TIMEOUT			
/THEO/CX_SHM_JOB_EXISTS			
/THEO/CX_SHM_JOB_NOT_FOUND			
/THEO/CX_TIMEOUT			
Interfaces			
/THEO/IF_PACKAGE_READER			
Programs + Includes			
/THEO/READ_TABLE_JOB			
/THEO/_READ_TABLE_JOB_CLEAN_UP			
/THEO/READ_TABLE_JOB_ERRORS			
/THEO/READ_TABLE_JOB_INIT			
/THEO/_READ_TABLE_JOB_READ_DATA			
Function modules + Includes			
/THEO/READ_TABLE			
/THEO/READ_TABLE_BTC_710			
/THEO/READ_TABLE_BTC_740			
/THEO/READ_TABLE_DIA			
/THEO/READ_TABLE_MAIN			
/THEO/READ_TABLE_46C			
/THEO/READ_TABLE_710			
/THEO/READ_TABLE_740			

Which version should customer install?

In general, customers should use the most feature complete version that is compatible with their SAP system. For example, if a customer is on SAP version 7.40 SP02, they should install the 6.40 version, because 740 SP05 version is not supported on their system.



Document Version History

Version	Date	Author	Description
1.0	2023-10-26	Aleksander Zotov	Initial version
1.1	2023-11-09	Aleksander Zotov	Updated version information for 710
1.2	2024-07-11	Aleksander Zotov	Updated object list with information for /THEO/READ_TABLE 3.6
1.3	2024-11-19	Aleksander Zotov	Updated object list. Fixed a typo.