

203545 - Archiv. profit center: Analysis of table GLPCA

Component: EC-PCA-TL-ARC (Enterprise Controlling > Profit Center Accounting > Extras > Archiving),
Version: 31, Released On: 19.08.2009

| Symptom

Before the archiving of actual line items of Profit Center Accounting (Table GLPCA), it is often not clear:

- from which archiving objects the data can be archived.
- how the distribution of data to individual organizational units and periods appears.
- which selection criteria for archiving result in large datasets.
- what the relationship between the archiving objects PCA_OBJECT, EC_PCA_ITM, EC_PCA_SUM und FI_SL_DATA is.

| Other Terms

Archiving, ADK, table analysis, analysis report, analysis program PCA_OBJECT, EC_PCA_ITM, EC_PCA_SUM, FI_SL_DATA

Tables: GLPCA

Programs: RGUARCPC, RGUARCPAITEM, RGUARCSL, ZAGLPCA1, ZGLPCA2

Transactions: TAANA, SARA

| Reason and Prerequisites

Up to Release 4.6C: missing development

As of Release 4.6C: you are not using Transaction TAANA (tool for table analysis).

| Solution

1. What is the relationship between the archiving objects FI_SL_DATA, PCA_OBJECT, EC_PCA_SUM and EC_PCA_ITM?

As of Release 4. 6A, the objects EC_PCA_SUM and EC_PCA_ITM replace object PCA_OBJECT which can now only be used for the evaluation of data.

The archiving objects FI_SL_DATA and PCA_OBJECT (EC_PCA_SUM, EC_PCA_ITM) are independent of each other. The actual archiving of transaction data from Profit Center Accounting (tables GLPCA, GLPCP, GLPCT) is performed by the archiving object PCA_OBJECT (EC_PCA_SUM and EC_PCA_ITM). It archives the data of ledgers 8A, 8C, 8E and 8Z which have the following significance:

- a) 8A is updated for all customers with active Profit Center Accounting and is used for the general collection of transaction data. It can manage line items and summary records which are archived via EC_PCA_ITM or EC_PCA_SUM.
- b) 8E is the export ledger for the ALE rollup (Transaction KE78). It will only be used if you use a PCA ALE scenario (decentralized, central). In order to ensure data consistency, it is vital that you execute a rollup before archiving for the periods to be archived. Since the ledger 8E only manages summary records, this only concerns the archiving of summary records.
- c) 8C is the reporting ledger for Profit Center Accounting in the central system, if you use the decentralized PCA ALE scenario, which has been available since Release 4.5. This ledger only manages summary records. Ledgers 8C and 8E cannot be posted directly.

d) 8Z is the average balance ledger which can be activated since Release 4.0 via Transaction OKE6. It is used only for reporting purposes and only manages summary records.

The application FI-SL allows to define user-defined ledgers in tables. For instance, if you create a ledger ZZ for table GLPCT, it will now also contain records for this ledger. You can archive these records with the help of the archiving object FI_SL_DATA.

The archiving objects can be regarded as independent in so far as there is no predefined sequence for their use. Each of the objects is "responsible" for their part of the records.

2. Which archiving objects archive data?

What is the distribution of data to individual organizational units and periods?

Which selection criteria lead to the archiving of how large datasets?

a) An answer to this is offered by the tool for table analysis which enables an analysis of any tables defined freely as of Release 4.6C.

Call up Transaction TAANA and select 'Table analysis --> Execute'. Enter GLPCA as table name and ARCHIVE as analysis variant. In the corresponding Customizing transaction ANA_VAR, you can also define another variant, i.e. determine fields to be analyzed. Note:

- the more fields you choose, the larger the analysis results, which are stored in the database. We recommend not to select more than 3-4 fields
- the more selective the chosen fields are, the larger the analysis results which are stored in the database. We recommend not to select fields such as document number or material number.

b) This note contains the source code of two programs which offer an answer to these questions as of Release 3.0F. The programs are not contained in the standard system since they are replaced by the tool for the table analysis (Transaction TAANA) as of Release 4.6C.

Create the programs ZAGLPCA1 and ZAGLPCA2 in your system (Transaction SE38 or SE80).

- Program attributes:
Title: Analysis of table GLPCA
Type: Executable program
- For the source code, refer to the correction instructions of the note.
- Text elements for ZAGLPCA1:
001 Read entries from GLPCA:
002 The analysis is finished.
003 Start program ZAGLPCA2 for the evaluation of the analysis.
- Text elements for ZAGLPCA2:
001 Date
002 System
003 Analysis of table GLPCA from

You can create the programs also under another name. In this case, replace the default names by those of your choice in the source code and the text elements.

Documentation on reports ZAGLPCA1 and ZAGLPCA2:

Use

The programs ZAGLPCA1 and ZAGLPCA2 help you to ascertain to which organizational units and periods the data of table GLPCA (EC-PCA:Actual line item) are assigned. With this information you can, for instance, determine before the archiving of profit center data which data volume can be archived by the usage of which selection criteria. You also determine from which archiving objects the data can be archived.

Scope of functions

The analysis is carried out in two steps.

1. The program ZAGLPCA1 is cross-client and reads the entire table GLPCA. It determines the client, the ledger, the controlling area and company code as well as the year and the period for every record. For these fields, statistics on the corresponding GLPCA records is created and stored in the database.

The program deletes the data of the last statistics.

2. The program ZAGLPCA2 reads stored statistical data and processes it in the form of a list.

Due to the division into two programs, you can evaluate the data of an analysis more than once. A further advantage is the separate generation of statistics which can be time-consuming for a large data volume.

Selection

Both programs have no selection screen. The entire table is always analyzed, and the entire statistics displayed.

You cannot influence the fields to be analyzed.

Output

As a result of the analysis you receive a list, where every combination of the fields client, ledger, controlling area and year is assigned to the number of the corresponding GLPCA records (column GLPCA). The column with the heading '%' specifies the percentage of these records of the entire data volume.

You receive further information on one of these combinations (a list line) when you click on your first column (characters '*'). You see now how the data is distributed to the company codes and the periods.

Depending on the release, you may only reach the information on the company code and period via button 'Expand totals' in the toolbar (a green arrow directing downwards).

The analysis data is sorted in descending order in terms of the number of the corresponding records.

The last line of the list specifies the entire number of the GLPCA records. The column '%' should always contain number 100. Due to rounding errors for the totaling of the percentage specifications, this value may deviate slightly.

Significance of the field 'Ledger':

- You can archive records with ledgers '8A', '8C' '8E' and '8Z' via object PCA_OBJECT (Release 3.0D to 4.5B) or. They are records of the so-called standard ledgers of Profit Center Accounting which are delivered in the standard system.
- Records with other ledgers belong to user-defined ledgers, which you have created yourself in the system as a customer. The object FI_SL_DATA archives these records.

Activities

In order to carry out a new analysis, proceed as follows:

1. Start program ZAGLCPA1. It has no selection screen, you therefore do not need to make any further entries.

We recommend to start the program as a background job since the analysis may take longer for a large data volume.

2. When the analysis is finished, start program ZAGLPCA2.

In order to evaluate an analysis already performed, call up program ZAGLPCA2.

Attributes

Key	Value
Other Components	Financial Accounting > Special Purpose Ledger > Basic Functions > Archiving (FI-SL-SL-E)

Software Components

Software Component	From	To
SAP_APPL	30F	31I+
SAP_APPL	40B	40B+
SAP_APPL	45A	45B+
SAP_APPL	46A	46B+
SAP_APPL	46C	46C+
SAP_APPL	470	470
SAP_APPL	500	500
SAP_APPL	600	600
SAP_APPL	602	602
SAP_APPL	603	603
SAP_APPL	604	604

Correction Instructions

Software Component	Number of Correction Instructions
<u>SAP_APPL</u>	1

This document refers to

SAP Note/KBA	Component	Title
178919		<u>EC-PCA-ACT</u>
91615	EC-PCA-TL-ARC	<u>Archiving/profit center: new archiving programs</u>

This document is referenced by

SAP Note/KBA	Component	Title
91615		<u>Archiving/profit center: new archiving programs</u>
178919	EC-PCA-ACT	<u>Table GLPCA: How can I reduce the volume of data?</u>