

Manual

collector

SAP ECC New GL

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1. SAP ECC NEW GL

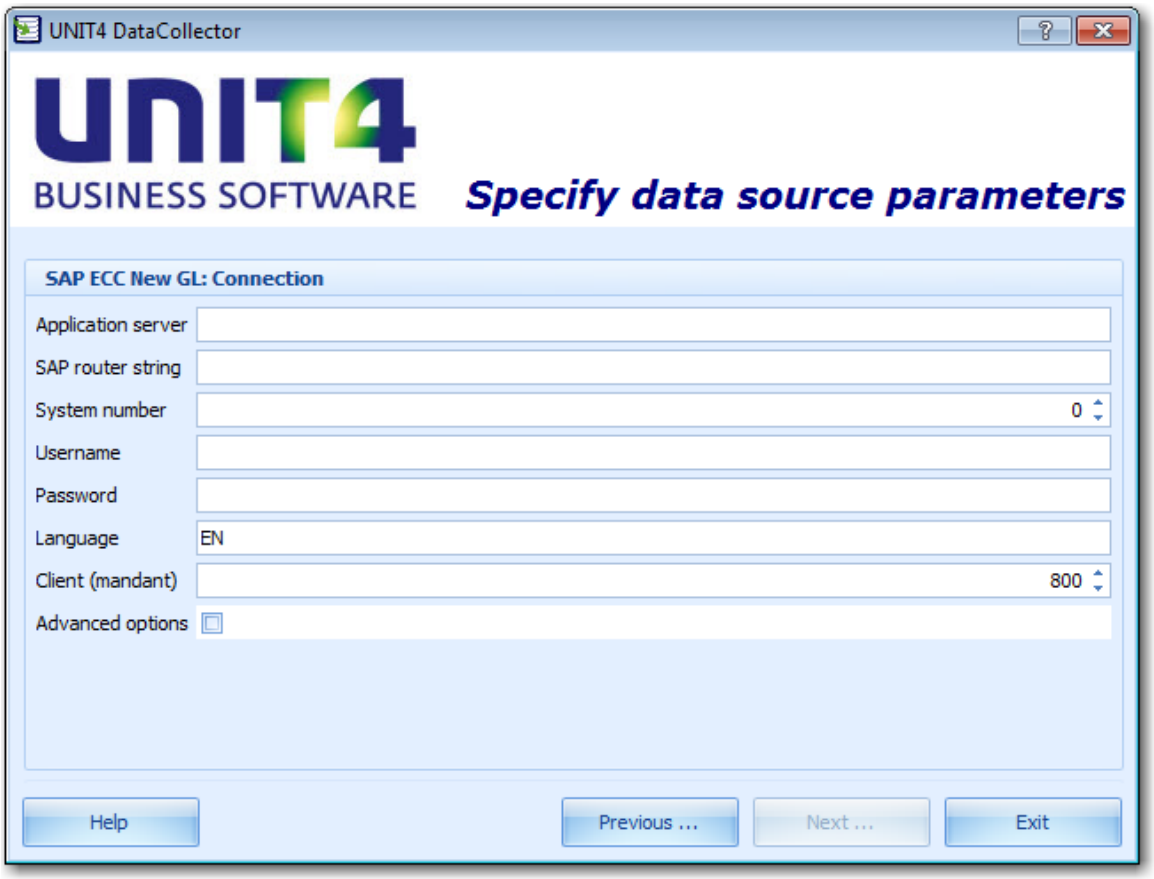
UNIT4 DataCollector is supplied with all the components required to establish a connection with the SAP ECC New GL system. The Windows workstation uses the TCP/IP protocol to establish a connection with this system. The installation of SAP GUI software at the workstation is not required.

Before specifying the file location (refer to the "Specify the file location" section of the UNIT4 DataCollector manual), perform the following steps to export data from SAP:

- Specify the connection and login data.
- Select the company.
- Select the ledger.
- Select the entities to be exported.
- Select the financial year, the period and the dates.
- Select the dimensions.
- Select the optional filters.

1.1. Specify the connection and login data

In this step you enter the required data to establish a connection with the SAP system.



The following data must be available for the connection and to log in:

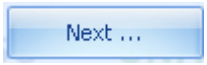
- Host name or IP address of the SAP server
- SAP router string (if applicable)
- SAP system number

In the properties of the SAP logon screen you can find the above 3 fields. To configure a SAP message server in the UNIT4 DataCollector the host name or IP address of the SAP message server must be entered in the SAP router string field. The parameter /H/ must be added before and after the host name or IP address. The syntax is: /H/MessageServerHostNameOrIPaddress/H/.

- User name
- Password
- Language
- Client (mandant) (usually this is 800)

The above 4 fields are the same as you need to fill in in the SAP logon screen. The user account that is used for accessing the SAP system needs to be configured in such a way that the user is authorized to execute the RFC_READ_TABLE function. Any user that is in the SAP_DISPLAY_ALL profile is usually allowed to execute this RFC. We recommend to configure the user account in such a way that only reading of data is allowed. Furthermore we recommend to configure a password that consists of uppercase characters and/or digits and no diacritics and which is preferably no more than 8 positions long.

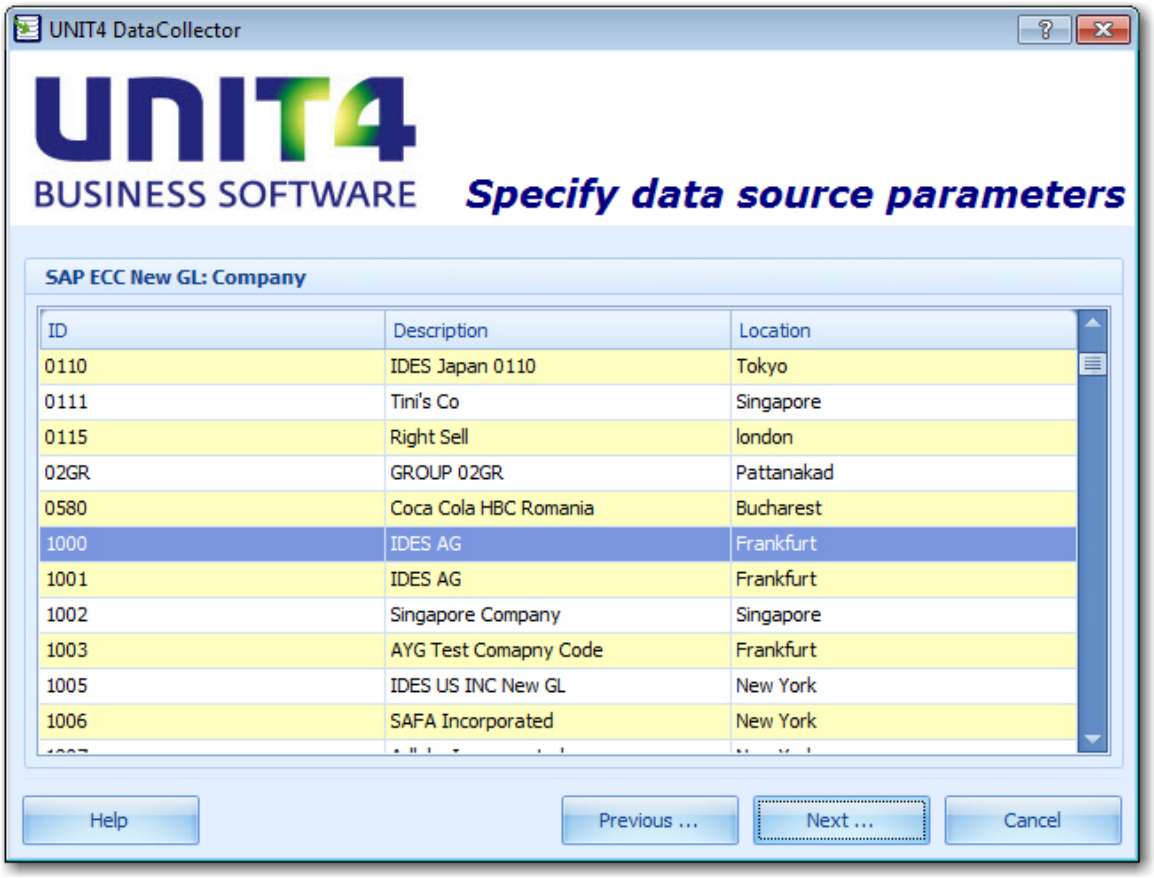
If you check the **Advanced options** field, then the "Advanced Options" window appears after the "Filter" window.

Click the 

button when you have entered the data.

Select the company

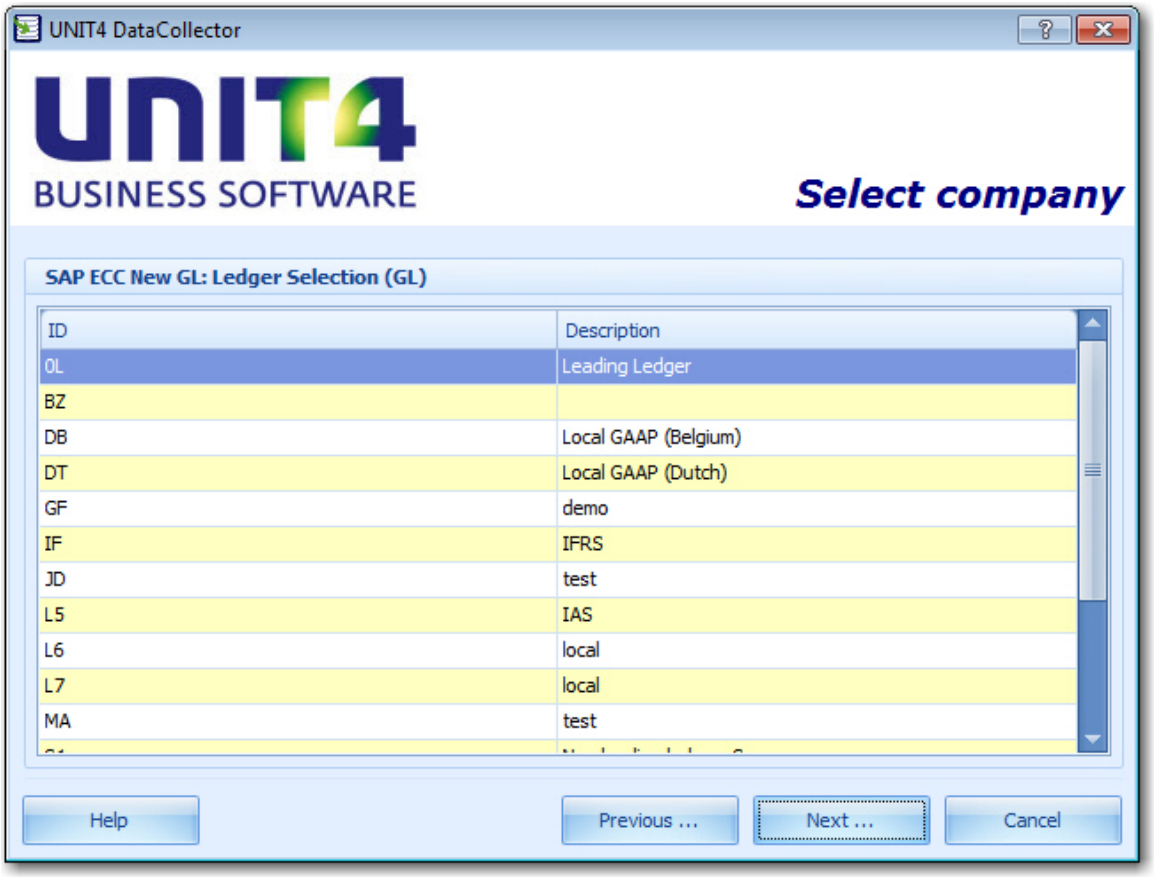
In this step you select the company from which the data is to be exported.



Next, click the  button.

1.2. Select the ledger

For extracting data from SAP ECC New GL you need to select the ledger:



Besides the leading ledger (usually with the code 0L) also several non-leading ledgers can be selected.

1.3. Select the entities to be exported

In this step you specify the entities to be exported.



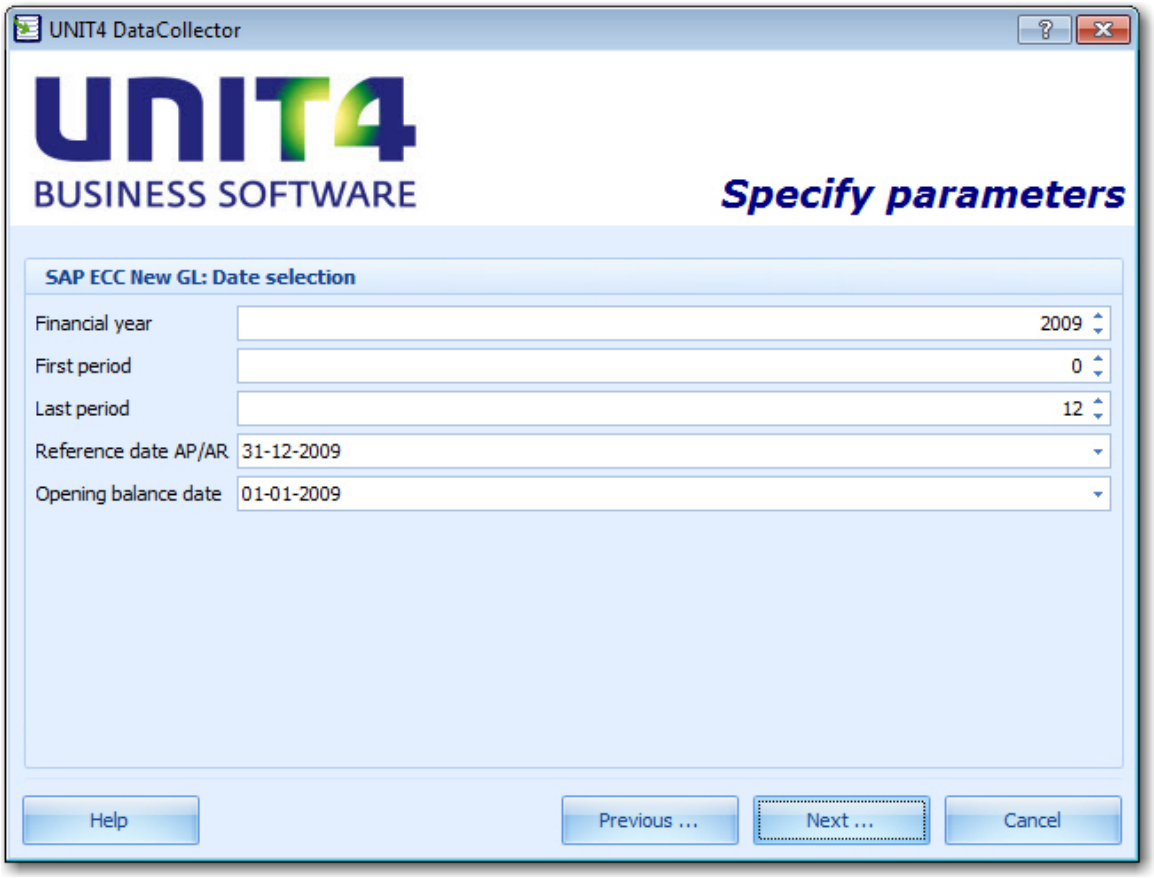
When a specific entity cannot be exported from SAP ECC New GL, this entity cannot be selected in this window (in SAP ECC New GL this is the "Periods" entity).

Click the Disable all entities button, to deselect the selection. You can only continue after having selected at least one entity. The Enable all entities button is now shown instead of the Disable all entities button. Click this button to select all the entities that can be exported.

Once you have completed the selection, click the Next ... button.

1.4. Select the financial year, the period and the dates

In this step you specify the financial year and periods from which the financial data is to be exported.



Select the following fields:

- **Financial year**: the financial year.
- **First period** and **Last period**: the range of periods (the opening balance is included by specifying period 0 as the **First period**).
- **Reference date AP/AR**: the reference date for the open accounts payable/accounts receivable.
- **Opening balance date**: the opening balance date for the general ledger entries of period 0, which you have specified above as the **First period**.

Click the 

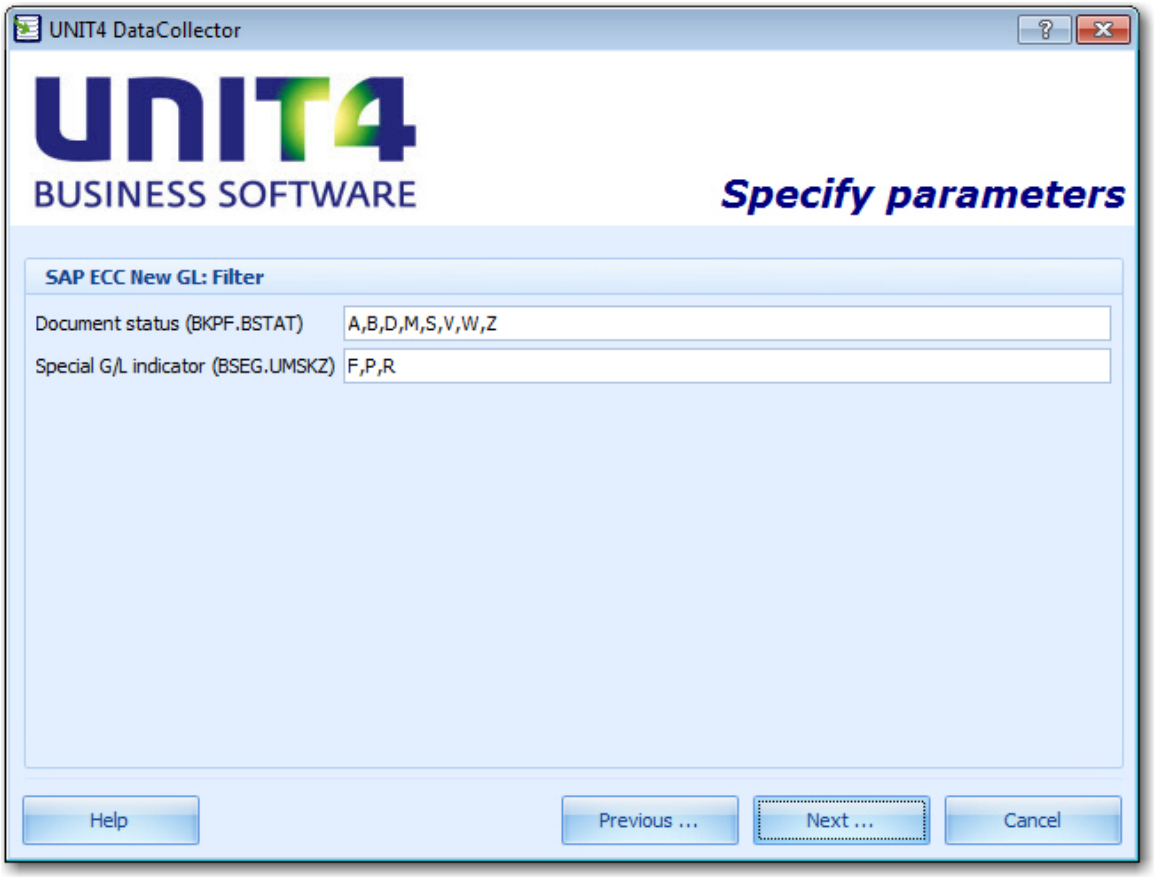
button when you have specified the above fields.

1.5. Select the optional filters

You can specify that specific records in the general ledger entries are not exported. If, for example, specific budget lines and/or statistical lines are used, a filter can be used on the document status to ensure these lines are not exported. All lines are exported as standard. Enter "R" or "F" in the **Special G/L indicator (BSEG.UMSKZ)** field if, for example, you do not want to export the lines for the set-up of the special general ledger entries.

In SAP ECC New GL for the general ledger entries it makes no sense to filter on BSTAT, because the table FAGLFLEXA contains only general ledger entries with a specified ledger code. These entries do not have a document status.

Both filters indicated in this step can be changed, if required.



For a non-leading ledger some line items are extracted from a separate table (BSEG_ADD). The consequences for the BSTAT and UMSKZ filter are:

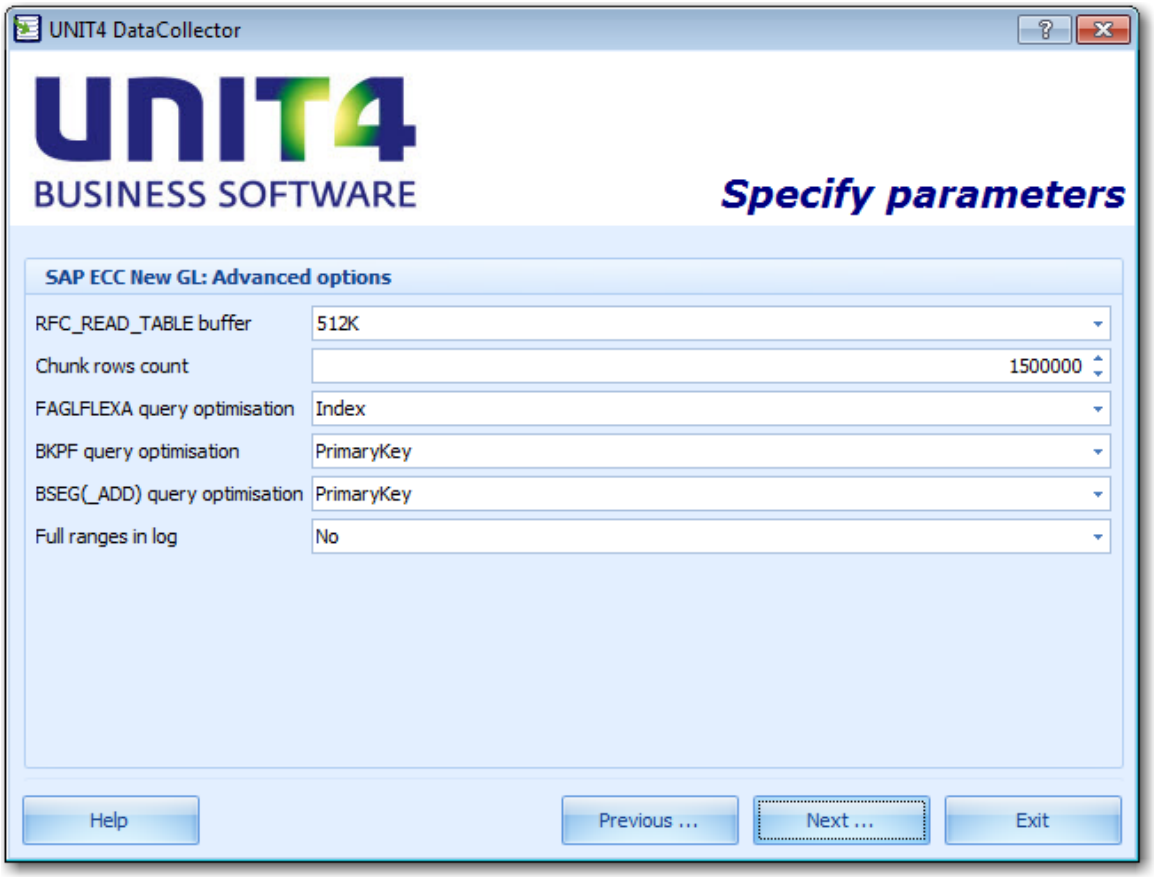
- With an L in the BSTAT filter these line items are ignored.
- The UMSKZ filter cannot be applied for these line items

Next, click the 

button.

1.6. Advanced options

With the advanced options you are able to influence the performance for extracting data from certain SAP tables. These options can help you to prevent memory errors and time-outs while extracting data from SAP tables.



RFC_READ_TABLE buffer
The RFC_READ_TABLE buffer is the largest of the data packages that can be transported at once. The memory must have the capacity for this package. If the value is set too high, a memory error might occur during extraction. The minimum value for the RFC_READ_TABLE buffer is 64K, the maximum value is 1024K. The default value is set to 128K.

Chunk rows count
To avoid time-outs a SAP table extraction is divided into one or more chunks. The value of chunk rows count contains the maximum number of rows extracted in one chunk. The minimum value for the chunk rows count is 1,000 records, the maximum value is 20,000,000 records, the default value is set to 20,000,000. For the extraction of some tables, the minimum value is higher than 1,000 and/or the maximum value is lower than 20,000,000. This is automatically adjusted in the extraction of these tables.

FAGLFLEXA query optimisation
With this option you can influence the performance for extracting the FAGLFLEXA table with the parameters below. It is possible that the choice of the parameter affect the number of rows extracted for the FAGLFLEXA table (possible overhead). The chosen parameter does not affect the number of rows in the Journal entries in the extraction. The default value is Index.

- None: No optimisation in the performance of the table extraction and without overhead.
- PrimaryKey: In the extraction the primary key for the FAGLFLEXA table is used to enhance the performance, but this results in more overhead. The table extraction is executed for a full year. Not selected periods are removed afterwards.
- Index: In the extraction one of the standard indexes for the FAGLFLEXA table is used to enhance performance, but this results in more overhead. The table extraction is executed with all document lines for each document. All multiple lines are removed afterwards.

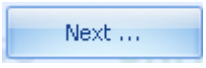
BKPF query optimisation
With this option you can influence the performance for extracting the BKPF table with the parameters below. It is possible that the choice of the parameter affect the number of rows extracted for the BKPF table (possible overhead). The chosen parameter does not affect the number of rows in the Journal entries in the extraction. The default value is PrimaryKey.

- None: No optimisation in the performance of the table extraction and without overhead.
- PrimaryKey: In the extraction the primary key for the BKPF table is used to enhance the performance, but this results in some overhead. The table extraction is executed without the BSTAT filter. This filter is applied afterwards.

BSEG(_ADD) query optimisation
With this option you can influence the performance for extracting the BSEG table and the BSEG_ADD table with the parameters below. It is possible that the choice of the parameter affect the number of rows extracted for the BSEG table and the BSEG_ADD table (possible overhead). The chosen parameter does not affect the number of rows in the Journal entries in the extraction. The default value is PrimaryKey.

- None: No optimisation in the performance of the table extraction and without overhead.
- PrimaryKey: In the extraction the primary key for the BSEG table and the BSEG_ADD table is used to enhance the performance, but this results in some overhead. The table extraction is executed without the UMSKZ filter. This filter is applied afterwards.

Full ranges in log
The BKPF and BSEG(_ADD) tables are extracted with a method of ranges of BELNR's. The ranges are extracted in groups and logged in the log file. In large extractions this may result in a very large amount of lines in the log file and may cause a memory error, which will abort the extraction. Therefore you can select "Yes" to show the full ranges in the log file or you can select "No" to display only the first and the last BELNR selected for the group of BELNR's that will be extracted, to prevent the memory error. The default value is "No".

Next, click the 

button.

2. DIMENSIONS

The following list shows the names of the dimensions in UNIT4 AccountAnalyser.

Dimension number	Dimension name in UNIT4 AccountAnalyser
1	CostCentre (BSEG.KOSTL)
2	CostObject (BSEG.KSTRG)
3	ProfitCentre (BSEG.PRCTR)
4	InternalOrder (BSEG.AUFNR)
5	BusinessArea (BSEG.GSBER)
6	Plant (BSEG.WERKS)
7	WBSElement (BSEG.PROJK)
8	NetworkNumber (BSEG.NPLNR)
9	CreditControlArea (BSEG.KKBER)
10	Company (BKPF.BUKRS)

3. POTENTIAL ISSUES

The following issues should be taken into account when exporting data from SAP ECC New GL:

- The journal code (for general ledger, accounts receivable and accounts payable entries) consists of the document type (BLART) and the transaction code (TCODE).
- The name of the journal consists of the description of the document type and then the transaction code between brackets.
- In SAP there are no journals, so we convert booking streams in SAP to journals in UNIT4 AccountAnalyser. As a result all journals are imported as type "general" in UNIT4 AccountAnalyser. The journal type has to be changed in UNIT4 AccountAnalyser to ensure the correct generation of a large number of reports.
- The VAT codes are available in the master data. Only the VAT percentages and the contra accounts are not exported, because they are not as such available in SAP.
- The imported VAT codes, VAT amounts, debtor and creditor codes in the general ledger entries cannot be used for the reports but can be used in the cross tables and the grid lay-outs.
- The user is deactivated in SAP if the entered login password is incorrect multiple times.
- After import the user must fill the start and end date in the financial periods him self. This can be done in UNIT4 AccountAnalyser with "Configuration | Financial periods". This is necessary for certain reports in UNIT4 AccountAnalyser to function properly.
- With Accounts payable and Accounts receivables the user code will be filled in only for the invoices and payments of the selected year. Of older years the user codes are not extracted.