

SAP BW Configuration – Basic System Settings



Applies to:

SAP BI 7.0. For more information, visit the [EDW homepage](#)

Summary

This document is intended to show the basic configuration settings that should be done on a BI system for its correct functionality and avoiding a few basic errors due to incorrect or no configuration.

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Author Bio



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Overview

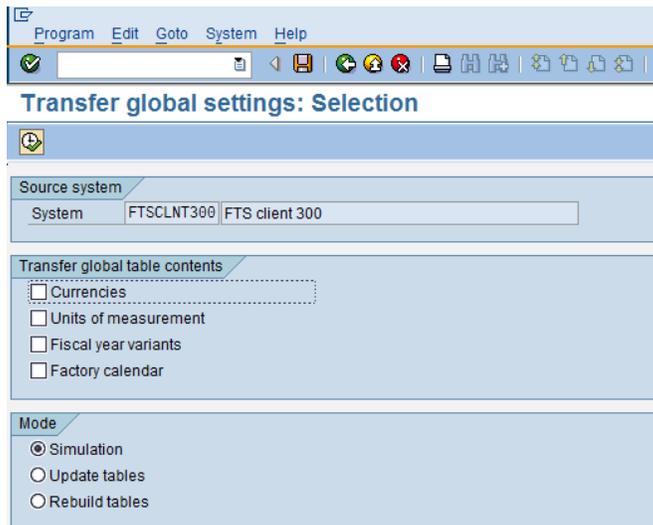
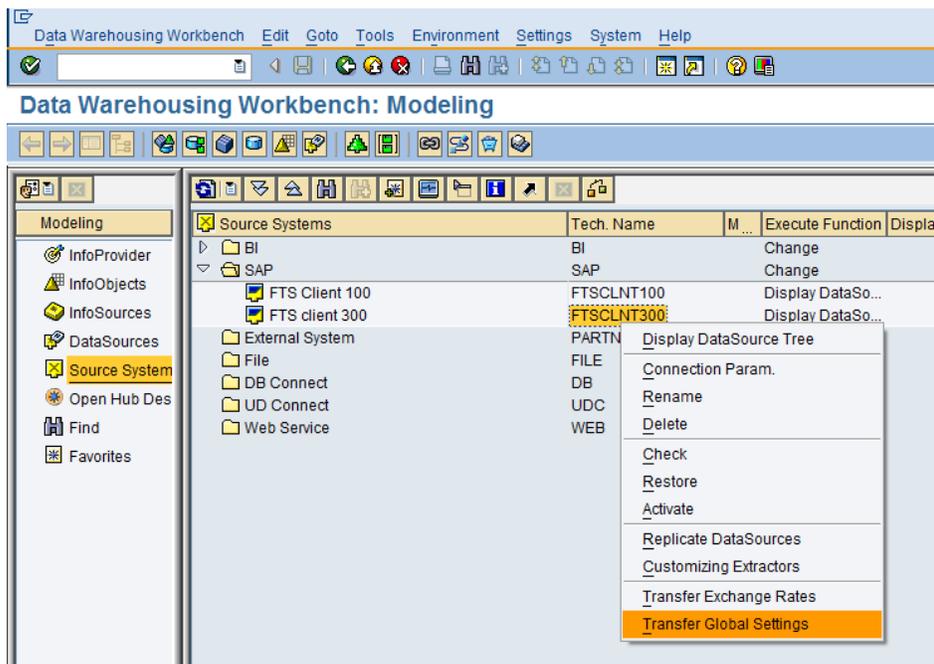
This paper will list out a few of the basic configuration settings that should be done in a BI system before using it for its correct functionality. If these configurations are not done, this might lead to some errors or even wrong data in reporting.

Configurations

The below is the list of basic configuration settings.

1. Global Settings (in BI System)

These settings refer to the Currencies, Units of Measurement, Fiscal Year Variants and Factory Calendar. In Data Warehousing Workbench (T-code RSA1) select the source system for which the settings has to be maintained.



The three modes for transferring Global Settings are:

- A) **Simulation:** On executing this mode, it will give a simulation of the updates that will occur on the other two modes. Also, you can see a list of tables and the number of records that will be updated.

The list of tables updated for currencies is

TCURC, TCURF, TCURN, TCURS, TCURT, TCURV, TCURW, TCURX

The list of tables updated for Units of Measurements is

T006, T006A, T006B, T006C, T006D, T006I, T006J, T006T

The list of tables updated for Fiscal Year Variants is

T009, T009B, T009C, T009T, T009Y

The list of tables updated for Factory Calendar is

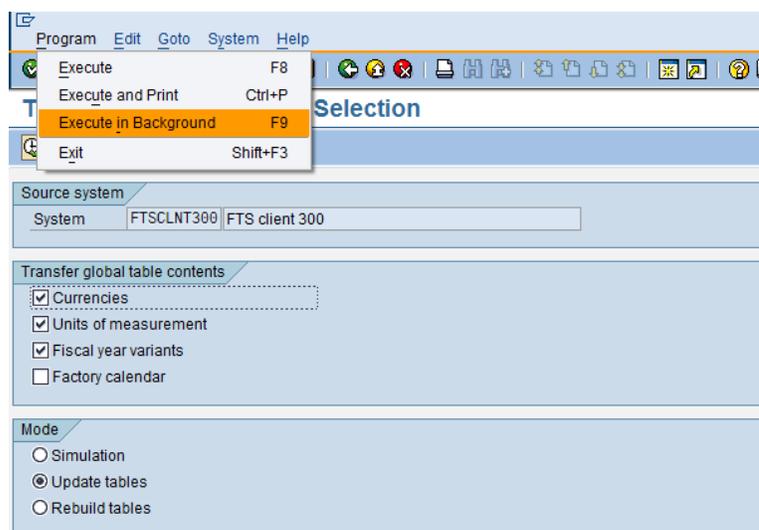
TCALS, TFACD, TFACS, TFACT, TFAIN, TFAIT, THOC, THOCD, THOCI, THOCS, THOCT, THOL, THOLT, THOLU

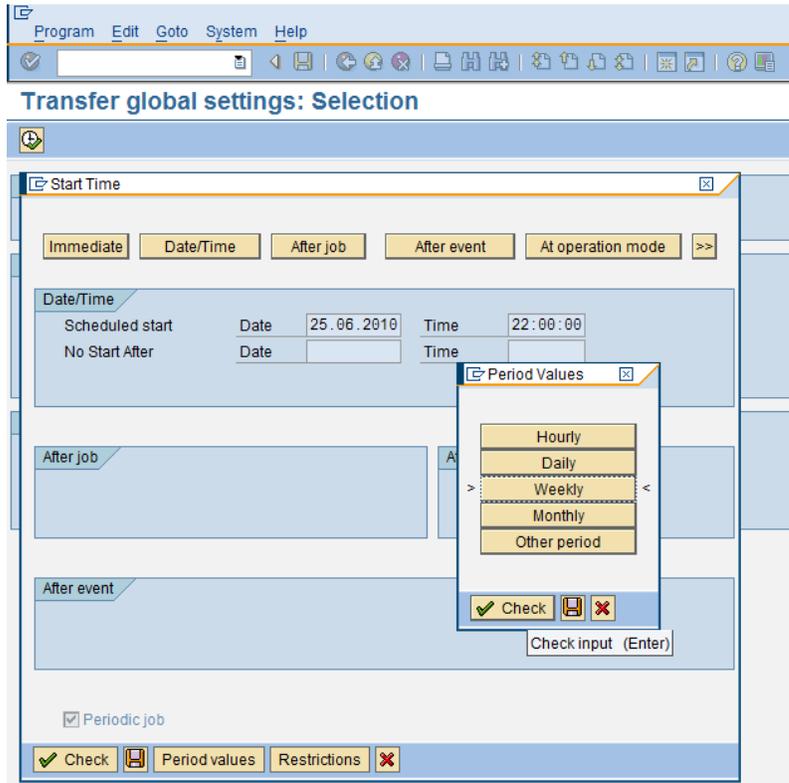
- B) **Update Tables:** This mode actually updates the related tables. By selecting this mode, any new changes that are done in the source system, are reflected here. The result is over-write. For example, if you changed the description of Fiscal Year Variant say Z1 'Sample Variant' to 'Test Variant', the result will be an overwrite in the related tables for variant Z1.

Note: This mode of does not work for Factory Calendar. Settings for Factory Calendar can only be rebuild.

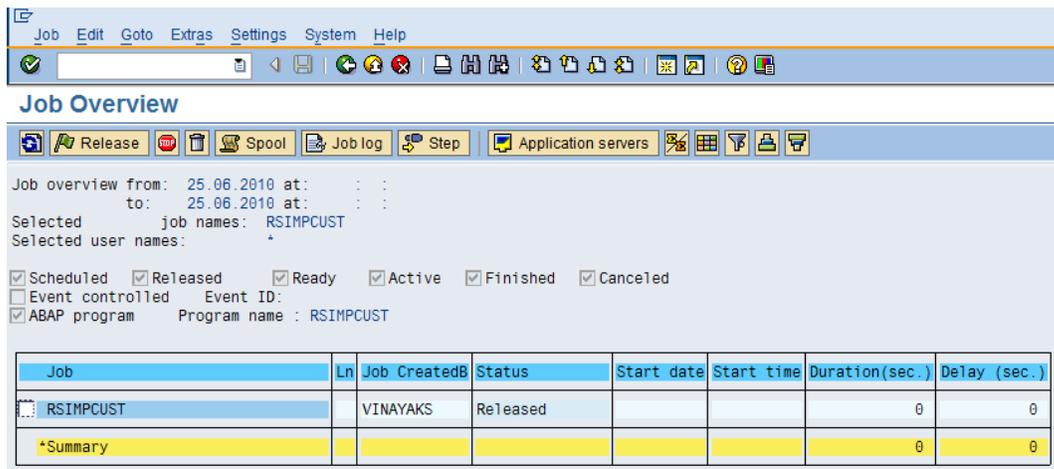
- C) **Rebuild Tables:** This mode reconstructs the related tables. It first deletes the old entries and then writes the new entries. For example, if there were 16 variants maintained in the Fiscal Year Variant, and later 3 Variants were deleted in the source system, as those are not supposed to be used. These changes have to be reflected using the rebuild mode, as the update mode does not delete any of the entries.

The job for updating these values can be maintained periodically.



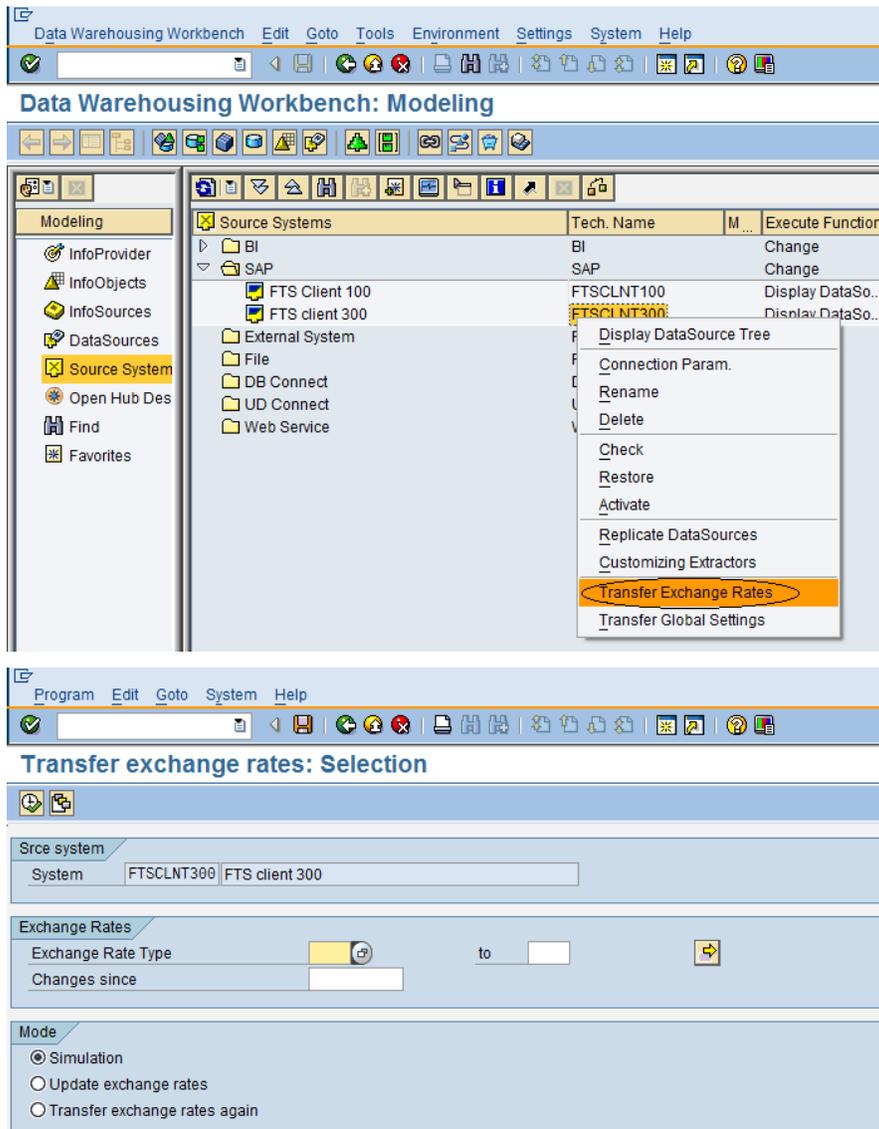


Background job RSIMPCUST will be scheduled.



2. Exchange Rate Settings (in BI System)

These settings refer to the Exchange Rate Settings. In Data Warehousing Workbench (T-code RSA1) select the source system for which the settings has to be maintained.



To define different exchange rates you must specify exchange rate types.

Example: You can use the exchange rate type to define a bank buying and selling rate and an average rate for the translation of foreign currency amounts. You can use the average rate for foreign currency translation, and the buying and selling rates for the valuation of foreign currency amounts.

The three modes of transferring Exchange Rate Settings are:

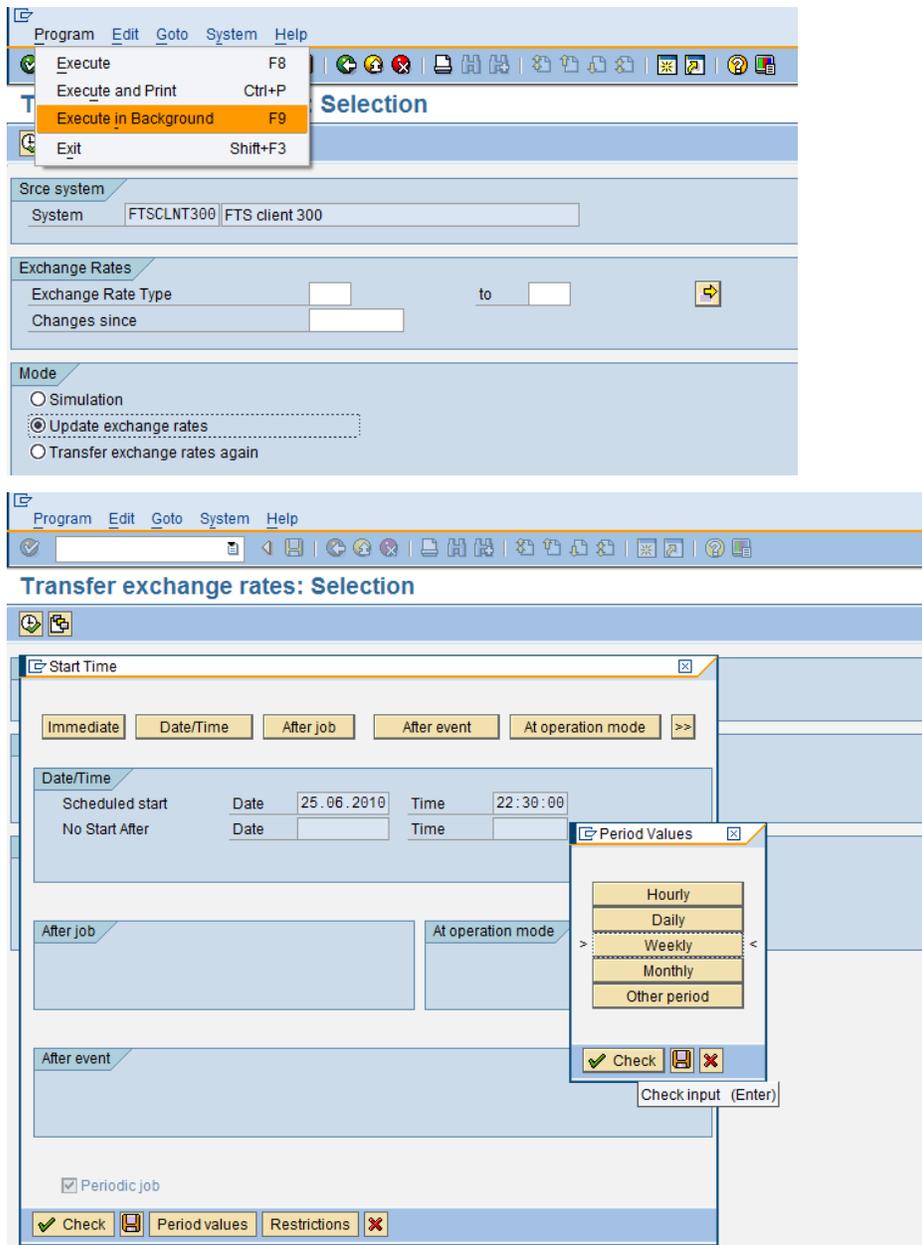
- A) **Simulation:** The transfer of Customizing tables/exchange rates is simulated. No data is updated. Also, you can see a list of table(s) and the number of records that will be updated.

The table updated is TCURR.

- B) **Update Exchange Rates:** This mode actually updates the related tables. By selecting this mode, any new changes that are done in the source system, are reflected here. The result is over-write.

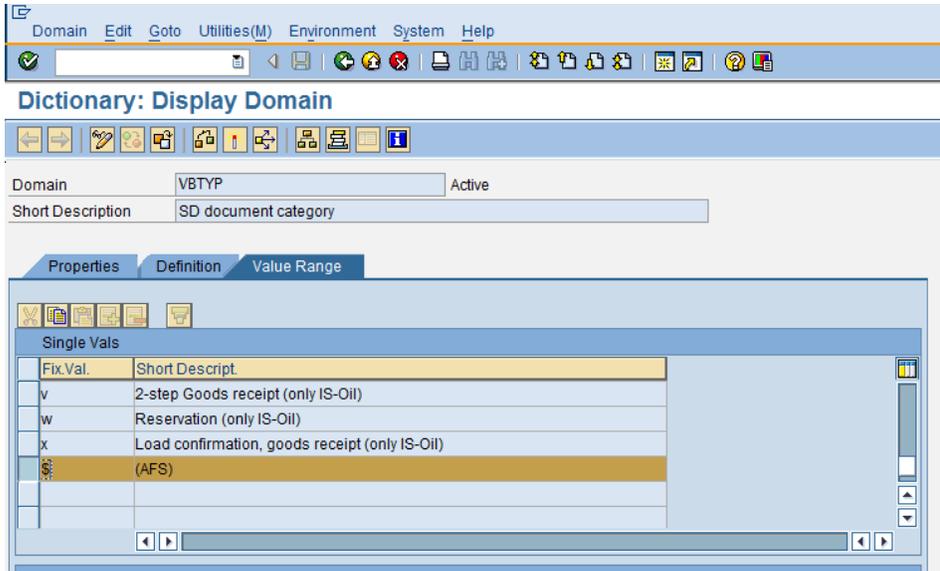
- C) **Transfer Exchange Rates again:** The Customizing tables/exchange rates are collected from the source system. The tables are rebuilt, old data is deleted.

The job for updating these values can be maintained periodically.

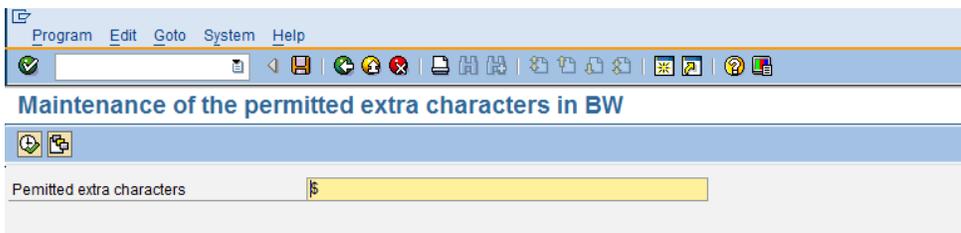


Background job RSIMPCURR will be scheduled.

On checking ECC system, it can be confirmed that the value “\$” is maintained in ECC and needs to be updated in BI as well.



So, the character \$ needs to be maintained in RSKC as shown below:



The job “RSKC_ALLOWED_CHAR_MAINTAIN” will execute in background to update this character.

This can be achieved by one of the following ways

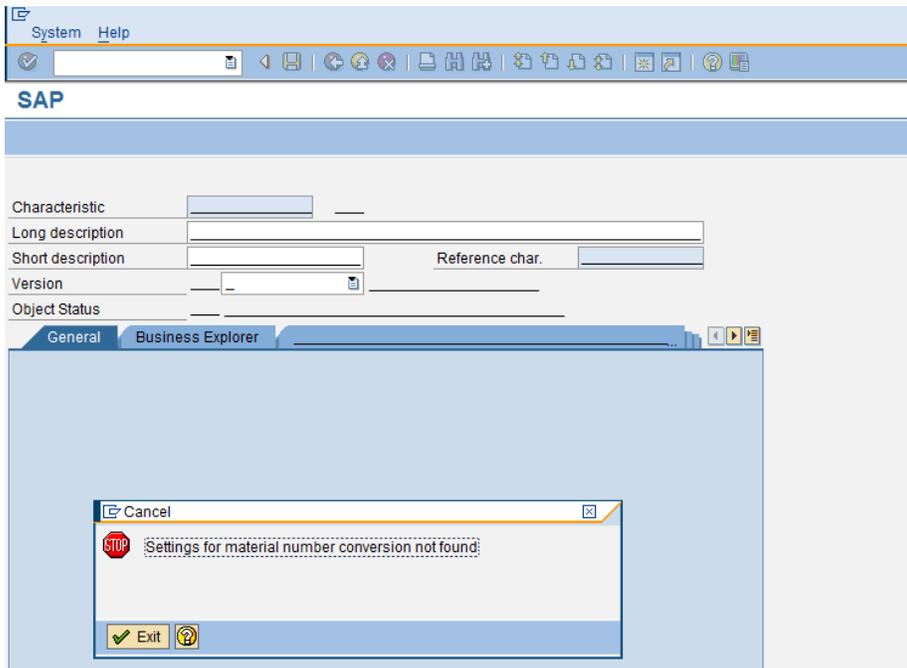
- T-code : RSKC
- T-code :SPRO

SAP Customizing Implementation Guide -> SAP NetWeaver -> Business Intelligence -> General BI Settings -> Maintain permitted extra characters

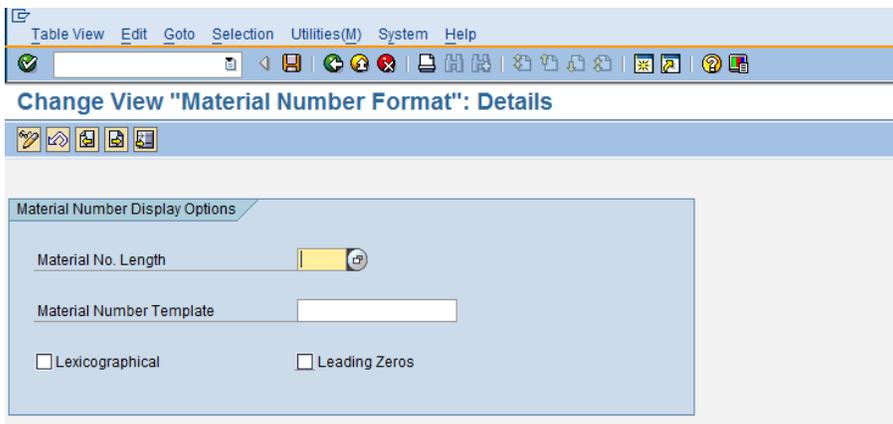
- Program: RSKC_ALLOWED_CHAR_MAINTAIN (execute in se38).

4. Set Material Number Format

This setting is used to maintain the permitted length of the material number. If the setting is not maintained, the InfoObject 0MATERIAL cannot be used/changed. The maintenance of the InfoObject 0Material results in the below error.



To rectify this issue, the material number format should be maintained in the T-code : OMSL



The permitted values range from 1 to 18. Maintain the same value, as it is maintained in the ECC system.

The entry will be maintained in the table: TMCNV

This can be achieved by one of the following ways

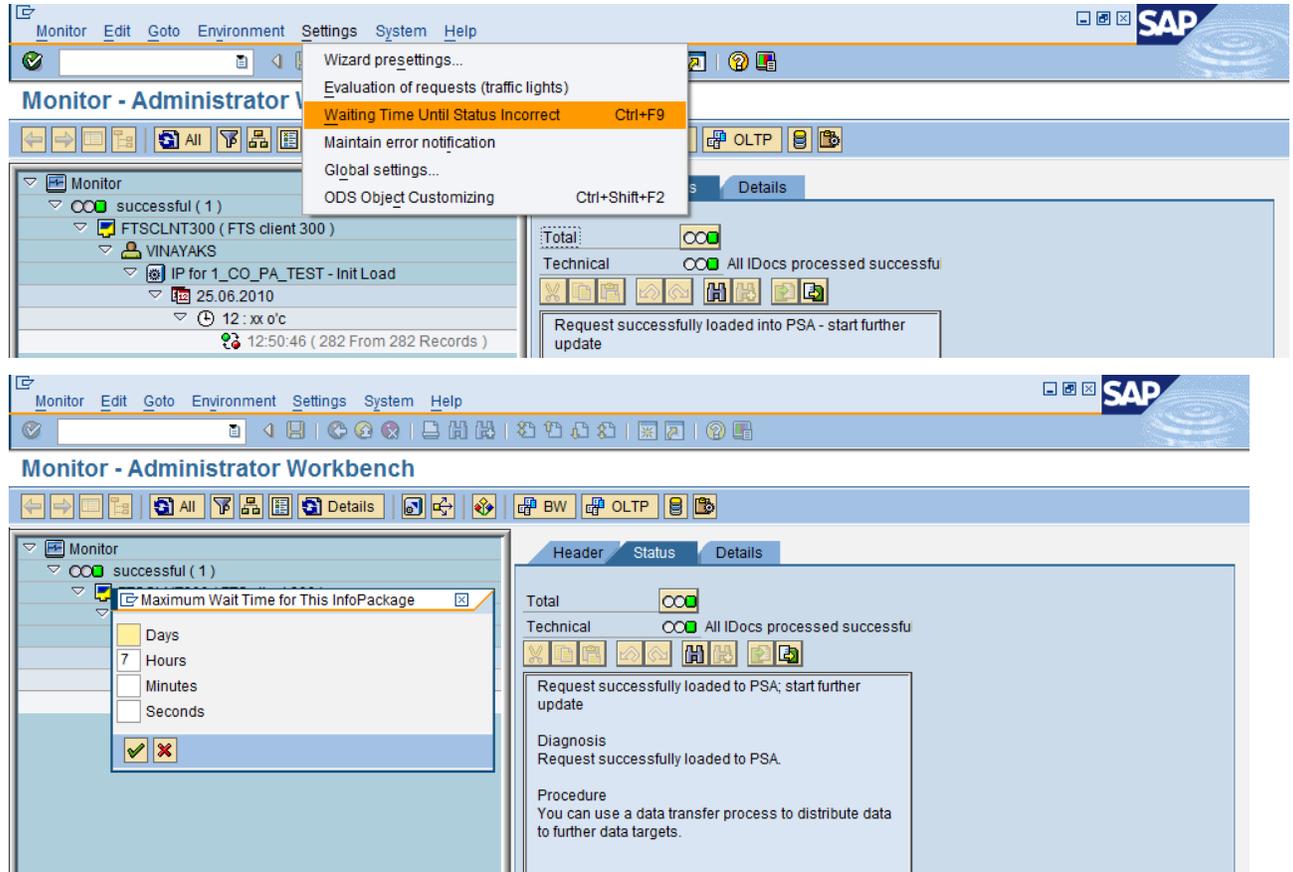
- a) T-Code: OMSL
- b) T-Code: SPRO

SAP Customizing Implementation Guide -> SAP NetWeaver -> Business Intelligence -> General BI Settings -> Set Material Number Display

5. Settings for Wait time until traffic light status is changed in the monitor

As long as a load request is not complete, the traffic light in the monitor remains yellow. If the time frame for the IDoc last entered for this request is longer than the maximum wait time, the traffic light is set to red in the Monitor.

The settings for Wait Time can be changed from the monitor screen of the InfoPackage.

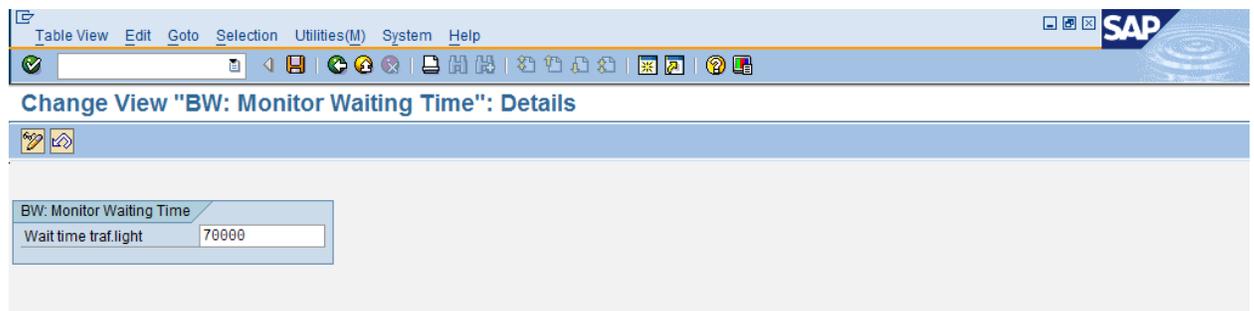


The settings will be maintained in the table: RSADMINCV2.

Also, the above setting can be maintained in one of the following ways

- T-Code: RSCUSTV2
- T-Code: SPRO

SAP Customizing Implementation Guide -> SAP NetWeaver -> Business Intelligence -> Automated Processes -> Extraction Monitor Settings -> Set Traffic Light Waiting Time



The maximum wait time is specified according to the data element **TIMESTAMP**.

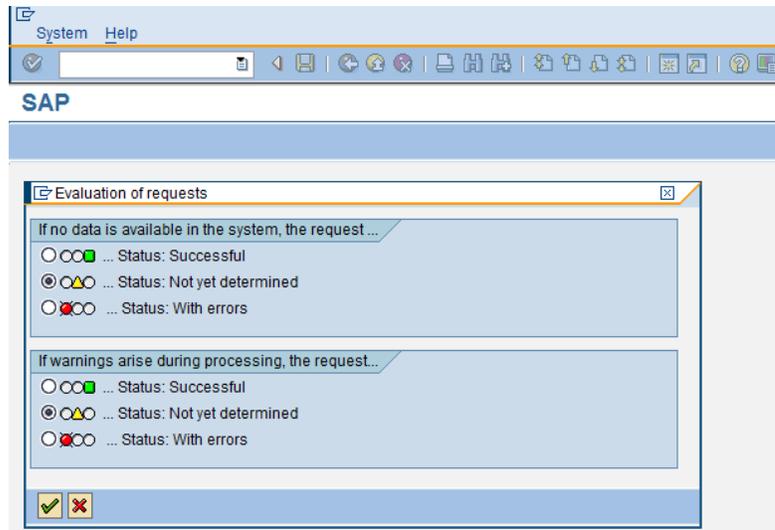
The complete time display could be shown as follows:

- **19980219091505**: Date and time are displayed together
- **70000**: this is an abbreviated display that only shows hours

(Seven hours wait time)

6. Set Traffic Light Color

This setting is maintained for the Traffic-light color in monitor for handling if no data is available in the source system; or if warnings arise during processing of the request.



When warnings arise during processing, but there are no errors, the request is normally yellow. As a result, post-processing steps are not executed and the system sees the request as "not completed". You need to set the request to red or green manually.

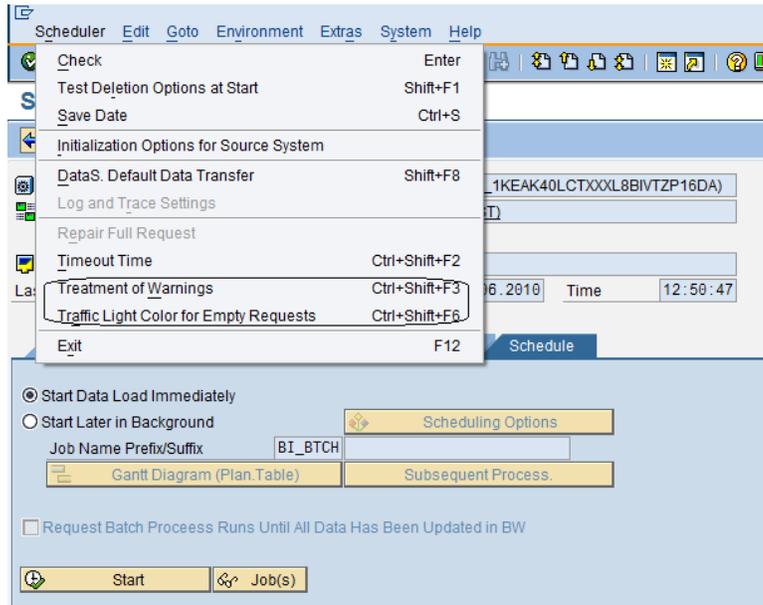
This indicator enables you to automate the handling of warnings for all requests in the system. This request will automatically technically become red or green.

This setting can be maintained in one of the following ways

- T-Code: SPRO

SAP Customizing Implementation Guide -> SAP NetWeaver -> Business Intelligence -> Automated Processes -> Extraction Monitor Settings -> Set Traffic Light Color

- Maintenance screen of InfoPackage(s); Menu Option: Scheduler

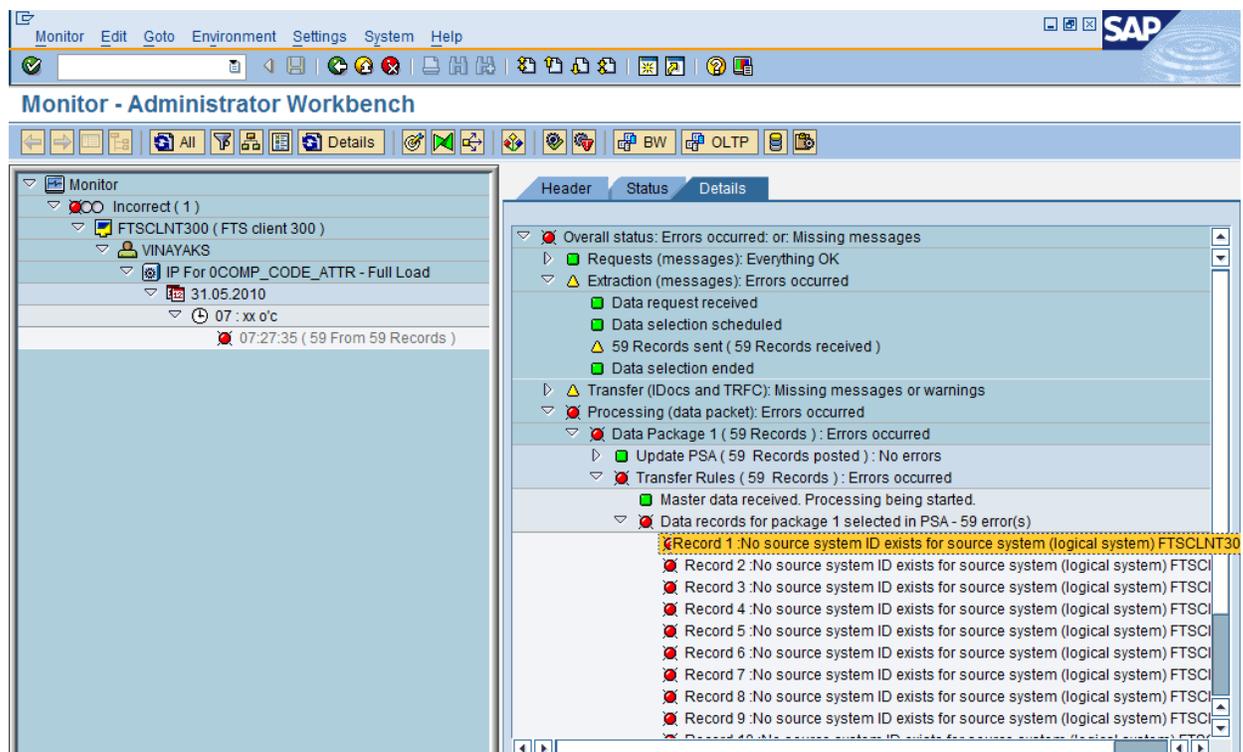


7. Assignment of Source System to Source System ID

The 'source system ID' (characteristic 0SOURSYSTEM) is a 2-character abbreviation for an individual source system or a group of source systems in BI. The source system ID is updated with the ID of the source systems that provide the data. If you use characteristic 'source system ID', you must assign an ID to each source system. You can do this in the Data Warehousing Workbench or in master data maintenance for the characteristic.

If you do not assign an ID an error will occur when you load master data for the characteristics that use 'source system ID' as an attribute or in compounding because in a data transfer, the assignment of the source system to a source system ID determines the value to be updated for characteristic 'source system ID'.

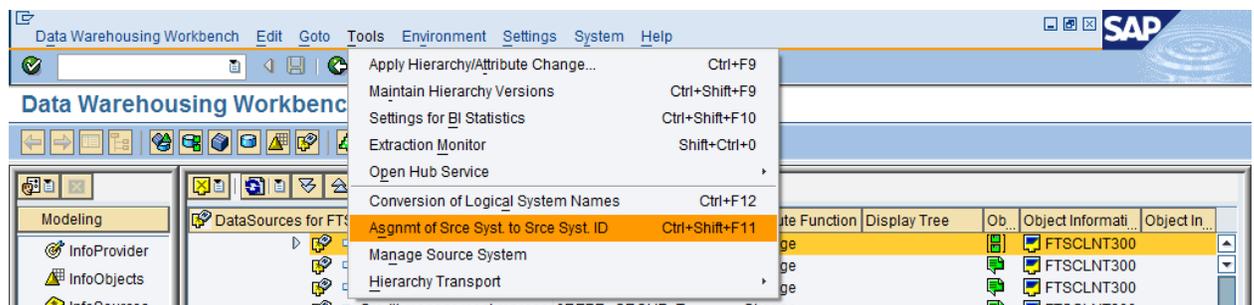
For example: 0SOURSYSTEM is an attribute of 0COMP_CODE. If you try to load the attributes of 0COMP_CODE without maintain the Assignment of source system ids, the load will result in an error as shown below:

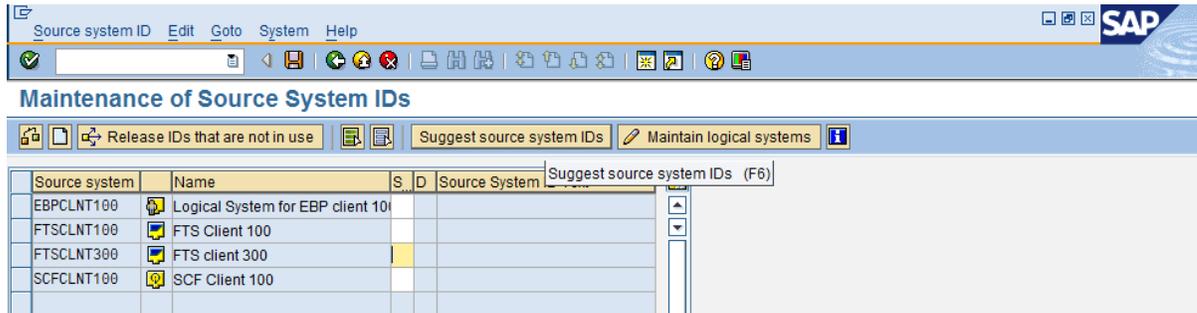


To avoid such error, assignment of source system Id is a mandatory requirement.

To make this setting open the Data Warehousing workbench and follow the path:

RSA1 -> Tools -> Asgnmnt of Srce Syst. to Srce Syst. ID





Click on Suggest Source system Ids and save.

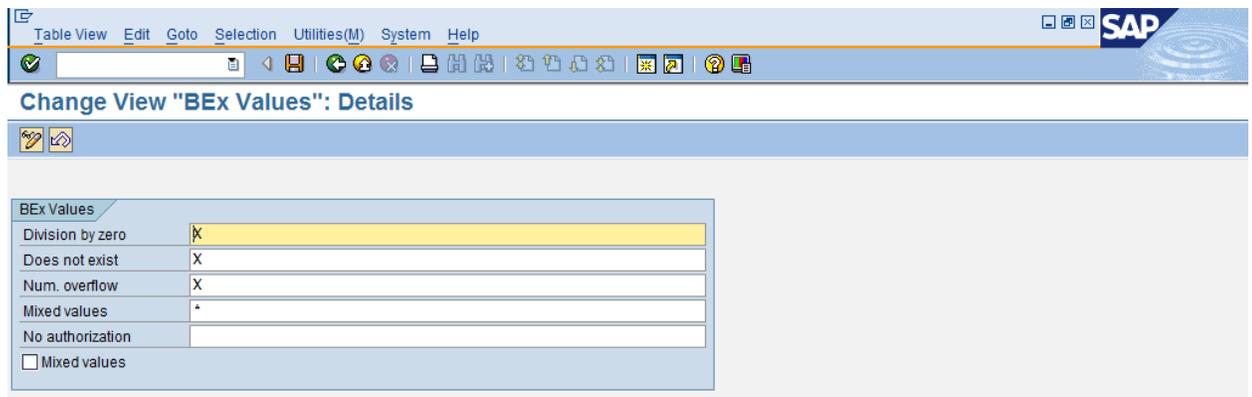
The structure RSSCRSOURSYSTEM will be updated with these entries.

Note: You can only delete the assignment of a source system ID if it is no longer used in master or transaction data. Use the function *Release unused IDs* to check this.

8. General Report Settings in BW

A) Presenting the numeric value in the Business Explorer

This setting is done for the display of cell values in reporting for any of the conditions as given in screenshot below



If you wish that the user should be able to differentiate between the conditions as “Does not Exist”, “Division By Zero”, you may maintain different symbols for different conditions.

The checkbox: “Mixed Values” decides whether the numeric value for a cell should be displayed, even though it comprises numbers with different units or currencies. If you select **Mixed values**, the numeric value from mixed currencies or units is output. If 'mixed values' is not active, then the text that is maintained under **Mixed currencies** is output in place of the numeric value.

This setting will be maintained in table: RSADMINCV4

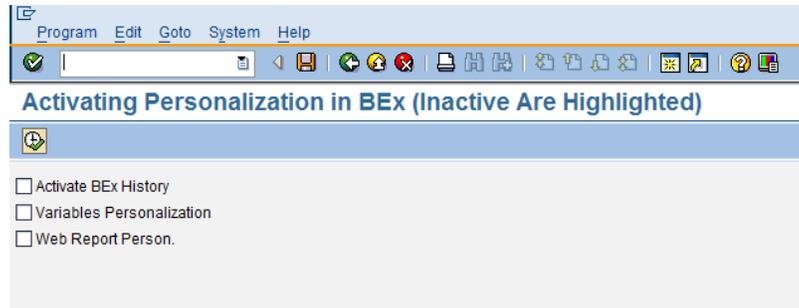
This setting can be done by

- T-Code: RSCUSTV4
- T-Code: SPRO

SAP Customizing Implementation Guide -> SAP NetWeaver -> Business Intelligence -> Settings for Reporting and Analysis -> General Settings for Reporting and Analysis -> Presenting the numeric value in the Business Explorer.

B) Activate Personalization in BEx

These settings can be maintained for any of the three mentioned in the screenshot below



Activate Bex History -> If this checkbox is marked, the history is activated in the *Open BEx* dialog box when the program is executed.

Variables Personalization -> If this checkbox is marked, personalization of variables is activated when the program is executed.

Web Report Personalization -> If this checkbox is marked, personalization of Web Applications is activated when the program is executed.

The background job will execute under the name: RS_PERS_ACTIVATE

On executing this job for Bex History, the following are activated

- Communication Structure /BIC/CS80PERS_BOD
- Transfer Rule(s) 80PERS_BOD_DA

On executing this job for Variables Personalization, the following are activated

- Communication Structure /BIC/CS80PERS_VAR
- Transfer Rule(s) 80PERS_VAR_DA

On executing this job for Web Report Person, the following are activated

- Communication Structure /BIC/CS80PERS_WTE
- Transfer Rule(s) 80PERS_WTE_DA

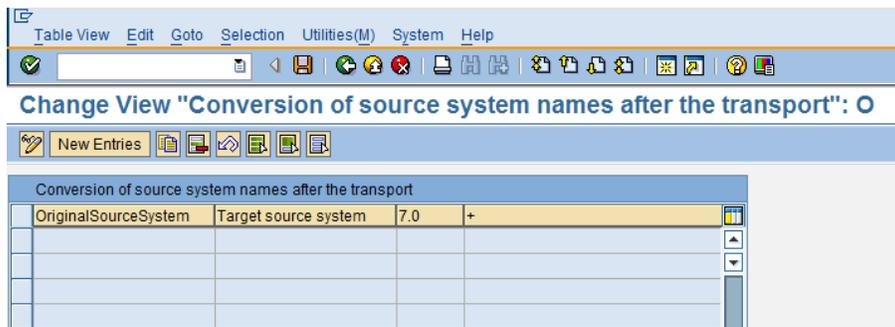
This setting can be done by

- a) T-Code: RS_PERS_ACTIVATE
- b) T-Code: SPRO

SAP Customizing Implementation Guide -> SAP NetWeaver -> Business Intelligence -> Settings for Reporting and Analysis -> General Settings for Reporting and Analysis -> Activate Personalization in BEx.

9. Transport Settings in BW

This setting is maintained to define the source and target system for transports.



Enter the required values here, the entry 7.0 is only valid for RSDS, TRFN and DTPA Objects.

The entries will be maintained in table view: V_RSLOGSYSMAP

The setting can be done by

- a) T-Code: RSLGMP
- b) T-Code: SPRO

SAP Customizing Implementation Guide -> SAP NetWeaver -> Business Intelligence -> Transport Settings -> Change source system name after transport

Related Contents

- 1) <http://help.sap.com/>
- 2) <http://forums.sdn.sap.com/index.jspa>
- 3) SAP Performance Assistant (F1 help for T-codes)
- 4) For more information, visit the [EDW homepage](#).

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