Important initial actions

Before running the euro conversion software in an operational environment, the software should be tested in a test environment. The test environment data should be similar to the operational environment data as much as possible. Testing should also include the entry of new transactional data after the various conversion steps. The latter is needed to check whether the standard processes still behave as expected in the converted environment. For example, calculated amounts in home currency should be correct throughout the system.

Furthermore, before doing a conversion in the operational environment, it is needed to make a full-database backup of the concerning environment, and to perform simulation runs.

The IVc4mcr euro conversion software

The IVc4mcr euro conversion software has been extended and modified in such a way that it is now enabled for other currency conversions, such as the Romanian ROL=>RON conversion, as well.
The software can be used in a similar way as for the euro conversion. However the restriction is that only the local, i.e. the first, home currency can be converted into another currency. The second and third home currency amounts will not be affected. Note that the currency rates from the transaction currency to the second and third home currency, will be changed during the external conversion only.

The tccri-module related parameters for non-euro currency conversions should be set up in such a way, that the triangulation and post-triangulation conversions will take (very) little time, and that implementation of triangulation rules will be bypassed.

For this purpose an additional, modified EI fields table (tccri709) dump has been made available, and the scenario guidelines presented below should be followed.

The solution contains all ported, relevant solutions that were made available earlier for the euro conversion software in the SSA BaanIVc4 standard environment. This includes the relevant part of the additional correction programs that a/o correct for additional rounding differences in various areas that may occur during the internal conversion.

The EI fields table - 2 content dumps

The current solution contains 2 different dumps of the EI fields table (tccri709).

1. The **full-content dump** is only to be used for euro-related conversions, in which **triangulation rules** are to be implemented.
   See solution 203120 for the download path.

2. The **easy-conversion dump** is to be used in currency conversions in which triangulation is not applicable. This applies to all non-euro-related currency conversions. Note, that even a possibility exists that this dump should also be used for euro-related conversions in future. This depends on what the future legal

rules regarding triangulation will be. These rules are currently unknown.
The easy-conversion dump can be downloaded from:
See solution 203120 for the download path.

The EI fields table - content of the additional dump

The **easy-conversion** dump of the EI fields table contains a dataset fit for performing the ROL=>RON conversion, without triangulation rule implementation. **All rows applying to the triangulation and post-triangulation conversions have been removed**. Moreover, the changes as mentioned in the *User's Guide for Euro Initialization* (U7163H US) to be changed manually for the IVc4mcr conversion, have been set correctly.
In addition the following changes have been made:

1. According to the user manual, customer turnover MCR step (tccom010.tovr) should be set to zero. (page 2.6). This is not correct: the MCR step should be 5. Same is valid for the supplier turnover (tccom020.tovr). The same holds for the these fields in tccom011 and tccom021.
2. The following additional rows, not mentioned in the user manual, have been added to the EI fields table. Note that some rows should only be "added" implicitly: External conversion of tdpur051, e.g., takes place as part of another conversion. The particular DLL function, has been modified to include the new field.

Field	**Conversion type**	**Rule**	**Array depth**	**MC step**
tdpur045.mcrp(1)	Triangulation (DLL, new)	Rate	3	1
tdpur045.mcrp(1)	Internal (DLL, new)	Rate	3	1
tdpur045.mcrp(1)	External (DLL)	Rate	3	1
tdpur051.mcrp(2)	Triangulation (DLL, new)	Rate	3	1
tdpur051.mcrp(2)	Internal (DLL, new)	Rate	3	1
tdpur051.mcrp(2)	External (DLL)	Rate	3	1
ticpr170.mcsp	Internal	Amount in HC	3	1
tiitm001.mcap	Internal	Amount in HC	3	1
tiitm001.mclp	Internal	Amount in HC	3	1
tiitm001.mcpp	Internal	Amount in HC	3	1
tipcs002.mcpp	Internal	Amount in HC	3	1
tipcs021.mcpp	Internal	Amount in HC	3	1

(1) Use tdpur040.ccur (currency) and tdpur045.mcrf (rate factor).
(2) Use tdpur050.ccur (currency) and tdpur051.mcrf (rate factor).

Note that **the full-content tccri709 dump** additionally contains rows that apply to the triangulation and post-triangulation currency rate conversions. This full-content dump should not be used for currency conversions for which the implementation of triangulation rules is either irrelevant, or even wrong.

Specific scenario (steps to be followed) for the ROL to RON conversion

1. Define the RON as a currency, also in the Tools tables.
2. Define the RON as euro currency in session *Maintain Company Data* (tccom0100m000).
3. Define rates for the RON towards the second and third home currency in *Maintain Multi Currency Rates* (tcmcr0101m000).

4. Define rates in session Maintain EI Rates (tccri7100m000), for all existing currencies towards the RON, set the field *Curr Base* to **No**. (This is important, since having the *Curr Base* for all currencies set to No, will result in less complex home amount and rate calculations.)
5. Define a dummy currency, e.g. "---" in session *Maintain Currencies* (tcmcs0102m000). Define dummy rates towards the home currencies (1.000000).
6. Define dummy rates (1.000000) in session Maintain EI Rates (tccri7100m000) for this dummy currency towards the RON, set the field *Curr Base* to **Yes.**
7. Define this dummy currency as EMU currency in the triangulation run, session Maintain Cluster currencies (tccri7104s000). No other currencies, including the ROL, should be defined as such! (Note that the dummy currency is only needed at this moment, because at least 1 currency has to be defined "EMU currency", otherwise the triangulation conversion will not run.)
8. Run the triangulation and actual internal conversion steps after each other. Do not run the external conversion in between.
9. After the actual internal conversion step, run session Remove User defaults (ttstpdeldeflt). This may be needed, since some user defaults may contain a default currency, which may be the ROL. Using this currency for default amount calculation could lead to data corruption.
10. After the internal conversion step, run the relevant (see below) correction programs present in the euro conversion's submenu.
11. For any external conversion, define the ROL as currency to be converted to the EURO in session Maintain Cluster Currencies (tccri7140s000), which session is part of the external conversion cluster.
12. Run the post-triangulation conversion after all external conversions have been performed.

Additional mandatory correction sessions that must be run after the internal conversion

The following additional correction sessions must be run after the actual internal conversion step, i.e. best before the external conversions, and certainly before the post-triangulation conversion step.

The 2 conversion correction steps, mentioned in this section, are mandatory, the other correction steps, mentioned in the next section, are up to the customer.

The correction steps should be run in the given sequence.

1. Adjustment of supplier and customer balances. This correction step is needed, because after changing the home currency amounts in the internal conversion, the home amounts of the individual payments of a fully paid invoice may not sum up to zero anymore due to small rounding differences. These rounding differences must be taken care of, so that the balance in home currency on the invoice again represents the sum of the linked documents. This correction step consists of running the following sessions in the given sequence:
    a. Recalculate supplier balances (tfacp2245m000)
    b. Recalculate customer balances (tfacr2245m000)
    c. Update open items - rounding differences (tccri7210m000)
    d. Recalculate supplier balances (tfacp2245m000)
    e. Recalculate customer balances (tfacr2245m000)

2. Adjusting the rounding difference transactions, calculated during the internal conversion, in case of inter-period postings.
   In case of inter-period postings (i.e. those postings made to the ledger accounts defined in the GLD company parameters for fiscal and reporting period change on form tab 2), the internal conversion step will calculate very large rounding differences. These rounding differences will be replaced by new ones that properly deal with an observed period change.
   The following session has to be run, if your setup allows for inter-period postings:
   a. Clear rounding differences for documents with period change (tccri7214m000)

Additional optional correction sessions that may be run after the internal conversion
For each correction session, it is described whether it is a mandatory step, or up to the customer.

3. Rebuild opening balance/history from transactions (EI) - tccri7212m000.
   If you would like to correct the period totals ("history") and opening balances for small rounding differences that may occur in the balances in the general ledger **for finally closed periods**, this session can be used. It is not mandatory to run this session. Only in case you yourself prefer to have the balances corrected. Please be aware that one should only run this correction session for those periods, for which all finalized transactions are still present. So, **archived periods should be left untouched**.
   Note that the session is similar to session tfgld3203m000. The difference is that session tccri7212m000 can be run for finally closed periods, as well.
   Also note that this correction session will create opening balances and period totals for the new conversion rounding account.
4. Rebuild ledger/dimension history for period (EI) - tccri7215m000.
   Similar considerations as for the previous session exist. This session is similar to session tfgld3206m000, made available for finally closed periods.

Standard correction sessions not available in the IVc4mcr environment
The following correction sessions, though available in the SSA Baan IVc4 standard environment, are either not applicable to or not important for the SSA Baan IVc4 Multi Currency extension. Therefore the standard versions of these sessions should not be run in a SSA Baan IVc4 Multi Currency environment.

5. *Creating new opening-balance batch* - tccri7211m000.
6. *Automatic balancing of profit and loss accounts (EI)* - tccri7216m000.
7. *Update compressed finalized transactions* - tccri7213m000.
8. *Copy currency rates* - tccri7217m000.