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Former Member

October 3, 2013 | 5 minute read

Pricing Programs and their logic – Help for debugging

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Function PRICING

1. Form KONDITIOINSVORSTEP (LV61AA12)

- read customizing data
- build KOMT1 (pricing procedure, relevant condition types including their characteristics)
- build KOMT2 (relevant accesses)
- read pricing type (STEU)
- USER EXIT *userexit_pricing_rule*

If something is incorrect in standard pricing types you have to check it here. Internal table STEU contains the attributes of pricing types and shows at what circumstances a condition is redetermined.

Customer specific pricing types are defined in the User Exit.

2. Form KONV_EINLESEN (LV61AA11)

- pricing worktable TKOMV (pricing worktable that contains information of all items) is filled if necessary

3. Form XKOMV_AUFBAUEN_AUS_KOMT1 (LV61AA67)

- checks if condition has to be redetermined

perform *xkomv_aufbauen_pruefen*

if sy-subrc eq 0 => Condition will be redetermined

- condition Access (read KBETR)

perform *konditionen_lesen* => database will be red

- read Data e. g. for VPRS

perform *xkomv_fuellen_ohne_komp* => perform *xkomv_kbetr_ermitteln*

4. Form XKOMV_AUFBAUEN_STEUERN (LV61AA57)

- read tax pricing procedure and enter taxes in XKOMV

5. Form XKOMV_AUFBAUEN_AUS_TKOMV (LV61AA58)

- read TKOMV and decide if condition will be copied into XKOMV.

perform *xkomv_aufbauen_pruefen* => checks, depending on condition customizing of TKOMV, values and actual pricing type.

if sy-subrc = 4 => copy TKOMV to XKOMV.

6. Form XKOMV_BEWERTEN (LV61AA55)

Note 900089 – Pricing: Processing steps for FORM XKOMV_BEWERTEN

- *userexit_xkomv_bewerten_init*

- LOOP

- loop at xkomv.*

- value of the condition basis gets determined

- perform *konditionsbasis_ermitteln*

- calculate XKOMV-KAWRT

- run condition basis formula

- if xkomv-kofra ne 0.*

- *if preisfindungsart ne 'E'*

If pricing type = E nothing will be done while running PRICING, no calculation, but formulas will be run (without changing XKOMV)

- ** execute condition basis formula not changing xkomv*

This part of the coding is only run if pricing type = E. XKOMV will not be changed even if the values within this formula have been changed.

- xkomv = rettkomv.* (rettkomv includes the values before running the formula)

- *if xkomv-kofrs ne 0.*

Run scale base formula if set in the customizing

- condition value gets determined

perform xkomv_kwert_ermitteln.

calculate XKOMV-KWERT

currency conversation

If xkomv-kofrm NE 0. => run calculation formula

- ** execute condition value formula not changing xkomv*

This part will only be run if pricing type = E

- ** calculated subtotals in KOMP*

- Net price is calculated

** recalculate komp-netpr*

KOMP~NETPR is calculated

- ** inactivate lines prior to last active price*

Only the last price of the pricing procedure will be active => [Note 836243](#)

- *userexit_xkomv_bewerten_end*

7. Form XKOMV_AUSSCHLUSS (LV61AA56)

- perform *konditionsausschluss*
read customizing of condition exclusion groups

8. Form XKOMV_UEBERTRAGEN_NACH_TKOMV (LV61AA42)

- append lines of XKOMV to TKOMV
XKOMV only includes one item, TKOMV includes all items of the document.

Subtotals (lines in XKOMV without condition types) are not appended to TKOMV

Function PRICING COMPLETE

All items will be calculated again depending on pricing type. Check preisfindungsart_kopf if you need to know which pricing run will be triggered

- *LOOP AT tkomp.*

** new pricing if necessary*

Depending on the pricing type the necessary function modules are called. The standard pricing is done again, normally there is only a calculation.

No condition records will be redetermined.

- ** build GKOMV per item*

Table GKOMV will be build including all group conditions of an item.

- ** calculate group conditions*

determine correct scale base and correct KBETR

- *LOOP AT gkomz.*

Recalculate XKOMV values based on GKOMV changes.

Determine rounding differences

PRICING_COMPLETE is only called while going to Header conditions or while saving a document (Due to performance issues). It might happen that item values are changing again after saving the document or going to Header conditions.

Function PRICING_COPY

Each and every condition of the referenced document is copied from KONV table into XKOMV of the new document. If necessary the conditions are fixed (XKOMV_KSTEU).

- *LOOP AT u15_konv INTO konv.*

u15_konv includes all conditions of an item (PRICING_COPY is called for each item separately).

- pricing type is set in field 'MODE' at this part of the coding. You can check each time if 'MODE' contains the correct value as it is set in the copy control

customizing. In standard it is normally 'D' or 'G'.

- *userexit_pricing_copy*

In this user exit it is possible to change everything in XKOMV. Here it is possible to change KSTEU if a special condition should be recalculated again

later in the pricing process.

- If the quantity has been changed while copying the conditions, the value will be adjusted

*arbfeld = xkomv-kwert * quantity_new / quantity_old.*

- At the end of this function XKOMV will be copied to HKOMV and then HKOMV will be copied to TKOMV. TKOMV is used in function module PRICING

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Srinu S

November 1, 2013 at 7:45 am

Helpful document.Thanks for sharing 😊

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Shiva Vasireddy

November 1, 2013 at 12:18 pm

Thanks for sharing

This is a New Learning

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Maria Du

May 13, 2015 at 5:33 am

thank you. very helpful

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Former Member

May 13, 2015 at 12:14 pm

Thank you very much. Helps a lot in understanding the flow 😊

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Christian Rosa

July 9, 2015 at 4:57 pm

Very helpful !! Thank you Csaba!

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al laz



January 10, 2020 at 6:49 am

Hi, That was really helpful, thanks for sharing.

Do you know how to run a report, showing a list of changed prices on a line-item level, probably MPROK from [VBRP](#) table? Can you tell me the t-code for it?

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MANIKANDAN RAJASEKARAN

February 16, 2020 at 5:36 pm

Great!! Kudos to you. Learned a new thing and must needed one for a SAP consultant (especially to the technical consultant and SD functional).

Thanks for the knowledge sharing.

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zcd 123

June 1, 2020 at 1:16 am

Thanks for sharing.

Very helpful.

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