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# Program SAPLMCB1 in SE38, then enter LMCB1TOP:

*\*Datenbanktabellen Database tables*  
tables: tmc2f, s032, s039, s033, mccontrol,  
        s034, s031, tmbco, tmcw, s035, t001w, e1ichd0, e1icit0, e1icsl0,  
        e1icsl1, e1icsl2, e1icit1, e1icit2, e1icit3, e1icit4,  
        mbew, tmca, ekpo, ekko, mkpf, mseg, mara, t156, t156c, t156m,  
        v156s, t134m, t156b, t001, t001k, tcurm, mard, msku, mslb, marc,  
        mspr, mska, resb.  
*\* Konstanten Constants*  
data: con\_suhie\_kopf       value 'A',  
      con\_suhie\_position   value 'B',  
      con\_stafo like tmc2d-stafo value '000009',  
      con\_zeitp like tmc5-zeitp  value 'BF',  
      con\_zeitp\_r2 like tmc5-zeitp  value 'R2',  
      plus value '+',  
      minus value '-',  
      k value 'K',  
      l value 'L',  
      o value 'O',  
      v value 'V',  
      w value 'W',  
      h value 'H',  
      s value 'S',  
      e value 'E',  
      q value 'Q',  
      x value 'X',  
      m value 'M',  
      geplant value 'G',  
      ungepl  value 'U',  
      reserv  value 'R',  
      null value '0',  
      eins value '1',  
      zwei value '2',  
      drei value '3',  
      lis\_upd,  
      idoc\_senden,  
      drf\_active type xfeld,                                *"EhP 5 MESI n\_1555198*  
      xlog,  
      preis type f,  
      hlp\_suhie like tmc2s-suhie,  
      hlp\_lbkum       like mcbest-lbkum,  
      hlp\_salk3       like mcbest-salk3,  
      hlp\_mblnr       like mcmseg-mblnr,  
      sum\_wbwbest like s032-wbwbest,  
      laufname(10) value 'R2R3LAUF',  
      hlp\_kzvbu like t156-kzvbu,  
      hlp\_cnt02 like t156m-cnt02,  
      shkzg like mseg-shkzg,  
      zustd like t156m-zustd,  
      bwkrs\_cus like tcurm-bwkrs\_cus,  
      attyp like mara-attyp,  
      attyp\_sam like mara-attyp value '01'.  
  
include rmcssu01.  
  
ranges: hlp\_belnr  for s033-mblnr.  
  
data: xxmcbest like mcbest occurs 0 with header line.  
data: xxmcmseg like mcmseg occurs 0 with header line.  
data: xxmcmres like smres occurs 0 with header line.  
data: int\_tmca like tmca occurs 0 with header line.  
data: mclogging like mclogging occurs 0 with header line.  
data: xtmc2f like tmc2f occurs 0 with header line.  
data: int\_s032 like s032 occurs 0 with header line.  
data: int\_s000 like s039 occurs 0 with header line.  
data: 2mcbest like mcbest occurs 0 with header line.  
data: 2mcmseg like mcmseg occurs 0 with header line.  
data: int\_bcqua like e1icsl0 occurs 0 with header line.  
data: int\_bchdr like e1ichd0 occurs 0 with header line.  
data: hlp\_control like mccontrol occurs 0 with header line.  
data: h\_e1cmcco like e1cmcco occurs 0 with header line.  
data: xt156c    like t156c   occurs 0 with header line.  
data: xt156b    like t156b   occurs 0 with header line.  
data: xt156m    like t156m   occurs 0 with header line.  
data: xt156     like t156    occurs 0 with header line.  
data: xt156s    like v156s   occurs 0 with header line.  
data: xt134m    like t134m   occurs 0 with header line.  
data: xt001     like t001    occurs 0 with header line.  
data: xt001k    like t001k   occurs 0 with header line.  
data: xt001w    like t001w   occurs 0 with header line.  
  
data: gs\_mcmseg\_l like mcmseg,  
      gs\_mcmseg\_k like mcmseg.  
  
data: begin of hlp\_mcbest.  
        include structure mcbest.  
data: end of hlp\_mcbest.  
  
data: begin of xmkpf occurs 0.  
        include structure mkpf.  
data: end of xmkpf.  
  
data: begin of xmseg occurs 0.  
        include structure mseg.  
data: end of xmseg.  
  
data: begin of fl\_2mcbest,  
        mandt like mcbest-mandt,  
        matnr like mcbest-matnr,  
        werks like mcbest-werks,  
        lgort like mcbest-lgort,  
      end of fl\_2mcbest.  
  
data: begin of hlp\_fl\_2mcbest,  
        werks like mcbest-werks,  
        matnr like mcbest-matnr,  
        lgort like mcbest-lgort,  
      end of hlp\_fl\_2mcbest.  
  
data:  begin of mbew\_key,  
         mandt like mbew-mandt,  
         matnr like mbew-matnr,  
         bwkey like mbew-bwkey,  
       end   of mbew\_key.  
  
data: begin of t156m\_key,  
        bustm like t156m-bustm,  
        zustd like t156m-zustd,  
        cnt02 like t156m-cnt02,  
      end   of t156m\_key.  
  
data: begin of t156s\_key,  
        mandt like v156s-mandt,  
        bwart like v156s-bwart,  
        wertu like v156s-wertu,  
        mengu like v156s-mengu,  
        sobkz like v156s-sobkz,  
        kzbew like v156s-kzbew,  
        kzzug like v156s-kzzug,  
        kzvbr like v156s-kzvbr,  
      end   of t156s\_key.  
  
data: begin of xmara.  
        include structure mara.  
data: end of xmara.  
  
data: begin of xmarc.  
        include structure marc.  
data: end of xmarc.  
  
constants: boole\_x     type boole value 'X',  
           boole\_space type boole value ' '.  
  
  
*\*\*\*\*\*\*\*\*\*\*\*\*\* special declarations for function modules  \*\*\*\*\*\*\*\*\*\**  
*\*\*\*\*\*\*\*\*\*\*\*\*\* MCB\_REBUILD\_MM and MCB\_REBUILD\_FI          \*\*\*\*\*\*\*\*\*\**  
  
TABLES:     mcslog, mcslogdir.  
  
DATA:       chk\_mcinf TYPE TABLE OF mcsoinf.  
  
DATA:       BEGIN OF int\_mcmseg OCCURS 50.  
              INCLUDE STRUCTURE mcmseg.  
DATA:       END   OF int\_mcmseg.  
  
DATA:       BEGIN OF int\_mcbest OCCURS 50.  
              INCLUDE STRUCTURE mcbest.  
DATA:       END   OF int\_mcbest.  
  
DATA:       BEGIN OF werkinfo OCCURS 0.  
DATA:         werks LIKE mseg-werks,  
              bwkey LIKE bseg-bwkey,  
              waers LIKE mseg-waers,  
              bukrs TYPE bseg-bukrs.  
DATA:       END OF werkinfo.  
DATA:       xbkpf LIKE bkpf OCCURS 0 WITH HEADER LINE.  
  
DATA:       BEGIN OF xbseg OCCURS 1000.  
              INCLUDE STRUCTURE bseg.  
DATA:         budat LIKE bkpf-budat,  
              bldat LIKE bkpf-bldat,  
              waers LIKE bkpf-waers,  
              stgrd LIKE bkpf-stgrd,  
              XUMBEW LIKE MCMSEG-XUMBEW.  
DATA:       END   OF xbseg.  
  
DATA:       BEGIN OF mode\_options OCCURS 10.  
DATA:         mode(1)   type c,  
              value(20) type c,  
            END OF mode\_options.  
  
CONSTANTS:  con\_zeitp\_bf LIKE tmc5-zeitp   VALUE 'BF',  
            con\_zeitp\_um LIKE tmc5-zeitp   VALUE 'UM',  
            con\_mcapp\_bc LIKE tmcw3-mcapp  VALUE '03',  
            con\_mcapp\_rt LIKE tmcw3-mcapp  VALUE '40'.  
CONSTANTS:  con\_paketgroesse TYPE i  VALUE 200.  
  
*\*\*\*\*\*\*\*\*\*\*\*\*\* end of declarations for function modules   \*\*\*\*\*\*\*\*\*\**  
*\*\*\*\*\*\*\*\*\*\*\*\*\* MCB\_REBUILD\_MM and MCB\_REBUILD\_FI          \*\*\*\*\*\*\*\*\*\**

Enter LMCB1UXX, got this:

*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**  
*\*   THIS FILE IS GENERATED BY THE FUNCTION LIBRARY.             \**  
*\*   NEVER CHANGE IT MANUALLY, PLEASE!                           \**  
*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**  
INCLUDE LMCB1U01.   *"MCB\_STATISTICS\_LOG*  
INCLUDE LMCB1U02.   *"MCB\_STATISTICS\_UPD\_V1*  
INCLUDE LMCB1U03.   *"MCB\_STATISTICS\_LIS*  
INCLUDE LMCB1U04.   *"MCB\_STATISTICS\_UPD\_V2*  
INCLUDE LMCB1U05.   *"MCB\_UPDATE\_INVENTORIES*  
INCLUDE LMCB1U06.   *"MCB\_UPDATE\_INVENTORIES\_EINZEL*  
INCLUDE LMCB1U07.   *"MCB\_UPDATE\_S039*  
INCLUDE LMCB1U08.   *"MCB\_STATISTICS\_R2*  
INCLUDE LMCB1U09.   *"MCB\_STATISTICS\_UPD\_D*  
INCLUDE LMCB1U12.   *"MCB\_STATISTICS\_NEU*  
INCLUDE LMCB1U13.   *"MCB\_STATISTICS\_ALE\_IN*  
INCLUDE LMCB1U14.   *"MCB\_GOODS\_RECEIPT\_AT\_STOCK*  
INCLUDE LMCB1U18.   *"MCB\_STATISTICS\_UPD\_SIM*  
INCLUDE LMCB1U17.   *"MCB\_STATISTICS\_UPD\_V3*  
INCLUDE LMCB1U19.   *"MCB\_DETERMINE\_STOCKTYPE*  
INCLUDE LMCB1U20.   *"MCB\_MCMSEG\_FILL*  
INCLUDE LMCB1U21.   *"MCB\_STOCK\_SELECT*  
INCLUDE LMCB1U22.   *"MCB\_DISTRIBUTE\_IDOC\_BCO*  
INCLUDE LMCB1U23.   *"MCB\_MCBEST\_FILL*  
INCLUDE LMCB1U10.   *"MCB\_REBUILD\_MM*  
INCLUDE LMCB1U11.   *"MCB\_REBUILD\_FI*  
INCLUDE LMCB1U15.   *"MCB\_STATISTICS\_NEU01*

## Entering MCB\_DETERMINE\_STOCKTYPE

FUNCTION mcb\_determine\_stocktype.  
*\*"----------------------------------------------------------------------*  
*\*"\*"Globale Schnittstelle: Global interface*  
*\*"  IMPORTING*  
*\*"     VALUE(I\_MSEG) LIKE  MSEG STRUCTURE  MSEG*  
*\*"     VALUE(I\_MTART) LIKE  MARA-MTART OPTIONAL*  
*\*"     VALUE(I\_MCMSEG) LIKE  MCMSEG STRUCTURE  MCMSEG OPTIONAL*  
*\*"     VALUE(I\_MODUS) LIKE  MCCONTROL-MODUS OPTIONAL*  
*\*"     VALUE(I\_LBBSA) LIKE  VM07M-LBBSA OPTIONAL*  
*\*"     VALUE(I\_KBBSA) LIKE  VM07M-KBBSA OPTIONAL*  
*\*"  EXPORTING*  
*\*"     VALUE(E\_MCMSEG\_L) LIKE  MCMSEG STRUCTURE  MCMSEG*  
*\*"     VALUE(E\_MCMSEG\_K) LIKE  MCMSEG STRUCTURE  MCMSEG*  
*\*"  TABLES*  
*\*"      ZT156 STRUCTURE  T156 OPTIONAL*  
*\*"      ZT156B STRUCTURE  T156B OPTIONAL*  
*\*"      ZT156S STRUCTURE  V156S OPTIONAL*  
*\*"      ZT156M STRUCTURE  T156M OPTIONAL*  
*\*"      ZT156C STRUCTURE  T156C OPTIONAL*  
*\*"      ZT001W STRUCTURE  T001W OPTIONAL*  
*\*"      ZT134M STRUCTURE  T134M OPTIONAL*  
*\*"      ZMSEG STRUCTURE  MSEG OPTIONAL*  
*\*"----------------------------------------------------------------------*  
  DATA shkzg LIKE i\_mseg-shkzg.  
  
  IF NOT i\_mcmseg IS INITIAL.  
    MOVE-CORRESPONDING i\_mcmseg TO e\_mcmseg\_l.  
  ENDIF.  
  
*\* Modus Neuaufbau Statistikdaten oder Simulation*

Mode Rebuild Statistical Data or Simulation  
  IF NOT i\_modus IS INITIAL.  
*\* Feststellen, ob Verbrauchskennzeichen in T156 sitzt.* (*Determine whether the consumption code is in T156)*

    READ TABLE zt156 WITH KEY mandt = i\_mseg-mandt  
                              bwart = i\_mseg-bwart  
                              BINARY SEARCH.  
    IF sy-subrc EQ 0.  
      IF zt156-kzstr EQ space.  
        CLEAR: e\_mcmseg\_l, e\_mcmseg\_k.  
        EXIT.  
      ELSE.  
        hlp\_kzvbu = zt156-kzvbu.  
        IF NOT zt156-xstbw IS INITIAL.  
*\*     Prüfen ob Bwart = Stornobewegungsart Check if Bwart = reversal movement type*  
          e\_mcmseg\_l-xstbw = true.  
        ENDIF.  
      ENDIF.  
    ENDIF.                                                  *" zt156*  
  
*\* Spezialfall Retail: Keine Verarbeitung Sammelartikel (Special case Retail: No processing of collective items)*  
    CHECK attyp NE attyp\_sam.  
  
    IF i\_mseg-bustm IS INITIAL.  
*\* Bei Belegen vor 3.0D ist WERTU und MENGU nicht gefüllt, da die Felder*  
*\* noch nicht existierten \* For documents prior to 3.0D, WERTU and MENGU are not filled because the fields did not yet exist*  
      IF i\_mseg-wertu IS INITIAL AND i\_mseg-mengu IS INITIAL.  
        READ TABLE zt001w WITH KEY werks = i\_mcmseg-werks  
                                   BINARY SEARCH.  
        IF sy-subrc EQ 0.  
          READ TABLE zt134m WITH KEY bwkey = zt001w-bwkey  
                                     mtart = i\_mcmseg-mtart  
                                     BINARY SEARCH.  
          IF sy-subrc EQ 0.  
            i\_mseg-mengu = zt134m-mengu.  
            i\_mseg-wertu = zt134m-wertu.  
            E\_MCMSEG\_L-MENGU = ZT134M-MENGU.  
            E\_MCMSEG\_L-WERTU = ZT134M-WERTU.  
          ENDIF.  
        ENDIF.  
      ENDIF.  
  
      READ TABLE zt156s WITH KEY mandt = i\_mseg-mandt  
                                 bwart = i\_mseg-bwart  
                                 wertu = i\_mseg-wertu  
                                 mengu = i\_mseg-mengu  
                                 sobkz = i\_mseg-sobkz  
                                 kzbew = i\_mseg-kzbew  
                                 kzzug = i\_mseg-kzzug  
                                 kzvbr = i\_mseg-kzvbr  
                                 BINARY SEARCH.  
      IF sy-subrc NE 0.  
*\* Prüfen ob Sonderbestandskennzeichen f. Umlagerung sitzt Check whether the special stock indicator for relocation is set*  
        READ TABLE zt156b WITH KEY mandt = i\_mseg-mandt  
                                   bwart = i\_mseg-bwart  
                                   sobkz = space  
                                   BINARY SEARCH.  
        CHECK sy-subrc EQ 0.  
        IF zt156b-umsok EQ i\_mseg-sobkz.  
          CLEAR t156s\_key-sobkz.  
          READ TABLE zt156s WITH KEY mandt = i\_mseg-mandt  
                                     bwart = i\_mseg-bwart  
                                     wertu = i\_mseg-wertu  
                                     mengu = i\_mseg-mengu  
                                     sobkz = i\_mseg-sobkz  
                                     kzbew = i\_mseg-kzbew  
                                     kzzug = i\_mseg-kzzug  
                                     kzvbr = i\_mseg-kzvbr  
                                     BINARY SEARCH.  
          CHECK sy-subrc EQ 0.  
        ENDIF.  
      ENDIF.                           *" zt156s*  
      t156m\_key-bustm = zt156s-bustm.  
    ELSE.  
      t156m\_key-bustm = i\_mseg-bustm.  
    ENDIF.                             *" i\_mseg-bustm*  
  
*\*Feststellen Bestandsart \*Determine inventory type*  
    IF i\_mseg-xauto EQ 'X'.  
      hlp\_cnt02   = 2.  
    ELSE.  
      hlp\_cnt02   = 1.  
    ENDIF.  
  
*\* Festhalten Bestandsart \* Record inventory type*  
    PERFORM [ermitteln\_insmk](#_ERMITTELN_INSMK)USING i\_mseg.  
  
*\* zustd\_t156m: Hiermit wurde bei der Buchung die T156m gelesen \* zustd\_t156m: This reads the T156m during booking*  
    CLEAR zt156m.  
    IF NOT i\_mseg-zustd\_t156m IS INITIAL.  
*\* Wenn es gefüllt ist, soll es auch beim Neuaufbau verwendet werden \* If it is filled, it should also be used for rebuilding*  
     IF i\_mseg-zustd\_t156m = 'F'.  
        CLEAR i\_mseg-zustd\_t156m.  
     ENDIF.  
     READ TABLE zt156m WITH KEY bustm = t156m\_key-bustm  
                                zustd = i\_mseg-zustd\_t156m  
                                cnt02 = hlp\_cnt02  
                                BINARY SEARCH.  
  
    ELSEIF zustd = '0'.  
     READ TABLE zt156m WITH KEY bustm = t156m\_key-bustm  
                                 zustd = space  
                                 cnt02 = hlp\_cnt02  
                                 BINARY SEARCH.  
      IF zt156m-lbbsa ='01'.  
       READ TABLE zt156m WITH KEY bustm = t156m\_key-bustm  
                                  zustd = zustd  
                                  cnt02 = hlp\_cnt02  
                                  BINARY SEARCH.  
      ENDIF.  
    ELSE.  
      READ TABLE zt156m WITH KEY bustm = t156m\_key-bustm  
                                 zustd = zustd  
                                 cnt02 = hlp\_cnt02  
                                 BINARY SEARCH.  
  
    ENDIF.  
  
    IF NOT hlp\_kzvbu IS INITIAL AND NOT zt156m-kzvbl IS INITIAL.  
*\* Muss ein Verbrauch fortgeschrieben werden ? \* Does consumption have to be updated?*  
      IF i\_modus EQ con\_modus\_eval.  
        PERFORM [verbrauchskz\_interpret\_eval](#_VERBRAUCHSKZ_INTERPRET_EVAL)USING   hlp\_kzvbu  
                                                    zt156m-kzvbl  
                                                    i\_mseg-shkzg  
                                                    e\_mcmseg\_l.  
      ELSE.  
        PERFORM [verbrauchskz\_interpretieren](#_Another_one_VERBRAUCHSKZ_INTERPRETI)USING   hlp\_kzvbu  
                                                    zt156m-kzvbl  
                                                    i\_mseg-shkzg  
                                                    e\_mcmseg\_l.  
      ENDIF.  
    ENDIF.  
  
    CLEAR: hlp\_kzvbu, zt156m-kzvbl.  
  
    READ TABLE zt156c WITH KEY lbbsa = zt156m-lbbsa  
                               sobkz = i\_mseg-sobkz  
                               BINARY SEARCH.  
  
    IF sy-subrc NE 0.  
      CLEAR zt156c.  
    ENDIF.  
  
    PERFORM [sta\_veraenderung](#_Determining_stock_with)USING e\_mcmseg\_l  
                                   zt156c  
                                   i\_mseg-shkzg.  
*\* Kennzeichen setzen: Neuaufbau nur der Bewegungen \* Set flag: Rebuild only the movements*  
    IF i\_modus NE con\_modus\_sim.  
      e\_mcmseg\_l-neuauf\_bew = true.  
    ENDIF.  
  
  ELSE.                                *" i\_modus*  
*\* Füllen der Kommunikationsstruktur aus Belegfortschreibung \* Filling the communication structure from document update*  
    PERFORM read\_t156c USING i\_lbbsa  
                             i\_mseg-sobkz.  
  
    PERFORM [sta\_veraenderung](#_Determining_stock_with)USING e\_mcmseg\_l  
                                   t156c  
                                   i\_mseg-shkzg.  
  ENDIF.  
                              *" i\_modus*  
  IF  i\_mseg-kzvbr IS NOT INITIAL AND  
      ( e\_mcmseg\_l-xsatra IS NOT INITIAL OR  
        e\_mcmseg\_l-xsqtra IS NOT INITIAL ) AND  
       e\_mcmseg\_l-kzbws IS INITIAL.  
    CLEAR e\_mcmseg\_l.  
    EXIT.  
  ENDIF.  
  
  IF NOT e\_mcmseg\_l-xtrame IS INITIAL OR  
     NOT e\_mcmseg\_l-xumlmc IS INITIAL OR  
     NOT e\_mcmseg\_l-xmklkk IS INITIAL OR  
     NOT e\_mcmseg\_l-xmkqkk IS INITIAL OR  
     NOT e\_mcmseg\_l-xmklkl IS INITIAL OR  
     NOT e\_mcmseg\_l-xmkqkl IS INITIAL OR  
     NOT e\_mcmseg\_l-xmslbo IS INITIAL OR  
     NOT e\_mcmseg\_l-xmsqbo IS INITIAL OR  
     NOT e\_mcmseg\_l-xglgmg IS INITIAL OR  
     NOT e\_mcmseg\_l-xlbuml IS INITIAL OR                        *"OMA*  
     NOT e\_mcmseg\_l-xkuuml IS INITIAL.                          *"OMA*  
*\* Bestandstyp nur auf Werksebene: Kein Lagerort \* Stock type only at plant level: No storage location*  
    CLEAR: e\_mcmseg\_l-lgort.  
  ENDIF.  
  
  IF NOT zt156m-kbbsa IS INITIAL OR NOT i\_kbbsa IS INITIAL.  
    MOVE-CORRESPONDING e\_mcmseg\_l TO e\_mcmseg\_k.  
*\* Komplementärbuchung erfordert zweite Zeile im LIS, z.B. Umlagerung \* Complementary posting requires second line in LIS, e.g. stock transfer*  
    CLEAR: e\_mcmseg\_k-xlabst,  
           e\_mcmseg\_k-xinsme,  
           e\_mcmseg\_k-xklabs,  
           e\_mcmseg\_k-xkinsm,  
           e\_mcmseg\_k-xtrame,  
           e\_mcmseg\_k-xumlmc,  
           e\_mcmseg\_k-xumlme,  
           e\_mcmseg\_k-xmklkl,  
           e\_mcmseg\_k-xmkqkl,  
           e\_mcmseg\_k-xmklkk,  
           e\_mcmseg\_k-xmkqkk,  
           e\_mcmseg\_k-xmslbo,  
           e\_mcmseg\_k-xmsqbo,  
           e\_mcmseg\_k-xmkekk,  
           e\_mcmseg\_k-xmkekl,  
           e\_mcmseg\_k-xmsebo,  
           e\_mcmseg\_k-xmeikl,  
           e\_mcmseg\_k-xmeikq,  
           e\_mcmseg\_k-xmeiks,  
           e\_mcmseg\_k-xmsprl,  
           e\_mcmseg\_k-xmsprq,  
           e\_mcmseg\_k-xmsprs,  
           e\_mcmseg\_k-xmkubl,  
           e\_mcmseg\_k-xmtvla,  
           e\_mcmseg\_k-xmtvqu,  
           e\_mcmseg\_k-xmtvei,  
           e\_mcmseg\_k-xmtvsp,  
           e\_mcmseg\_k-xmspre,  
           e\_mcmseg\_k-xmeike,  
           e\_mcmseg\_k-xeinme,  
           e\_mcmseg\_k-xkeinm,  
           e\_mcmseg\_k-xspeme,  
           e\_mcmseg\_k-xkspem,  
           e\_mcmseg\_k-xretme,  
           e\_mcmseg\_k-xglgmg,  
           e\_mcmseg\_k-xlbuml,  
           e\_mcmseg\_k-xkuuml.  
  
*\* Soll/Habenkz. hier umschießen ! Change debit/credit indicator here!*  
    e\_mcmseg\_k-shkzg = s.  
    IF i\_mseg-shkzg EQ s.  
      e\_mcmseg\_k-shkzg = h.  
    ENDIF.  
  
    IF NOT i\_modus IS INITIAL.  
*\* Logik bei Neuaufbau und Simulation Logic during reconstruction and simulation*  
      READ TABLE zt156c WITH KEY lbbsa = zt156m-kbbsa  
                                 sobkz = i\_mseg-sobkz  
                                 BINARY SEARCH.   
  
      IF sy-subrc NE 0.  
        CLEAR zt156c.  
      ENDIF.  
  
      PERFORM[sta\_veraenderung](#_Determining_stock_with)USING e\_mcmseg\_k  
                                     zt156c  
                                     e\_mcmseg\_k-shkzg.  
    ELSE.                              *" i\_modus*  
*\* Online-Fall*  
      PERFORM read\_t156c USING i\_kbbsa  
                               i\_mseg-sobkz.  
  
      PERFORM [sta\_veraenderung](#_Determining_stock_with)USING e\_mcmseg\_k  
                                     t156c  
                                     e\_mcmseg\_k-shkzg.  
    ENDIF.                             *" i\_modus*  
  
    IF  i\_mseg-kzvbr IS NOT INITIAL AND  
      ( e\_mcmseg\_k-xsatra IS NOT INITIAL OR  
        e\_mcmseg\_k-xsqtra IS NOT INITIAL ) AND  
       e\_mcmseg\_k-kzbws IS INITIAL.  
      CLEAR e\_mcmseg\_k.  
      EXIT.  
    ENDIF.  
  
    IF NOT E\_MCMSEG\_K-XTRAME IS INITIAL  
      OR NOT E\_MCMSEG\_K-XSATRA IS INITIAL  
      OR NOT E\_MCMSEG\_K-XSQTRA IS INITIAL  
     OR NOT E\_MCMSEG\_K-XBWESB IS INITIAL  
     OR NOT E\_MCMSEG\_K-XSABWE IS INITIAL  
     OR NOT E\_MCMSEG\_K-XSQBWE IS INITIAL.  
  
        CLEAR: E\_MCMSEG\_K-LGORT, E\_MCMSEG\_K-CHARG.  
  
      IF NOT e\_mcmseg\_l-charg IS INITIAL AND  
         NOT e\_mcmseg\_l-bwtar IS INITIAL AND  
             e\_mcmseg\_l-dmbtr IS INITIAL.  
           PERFORM [dmbtr\_ergaenzen\_bwtar](#_dmbtr_ergaenzen_bwtar)USING e\_mcmseg\_l e\_mcmseg\_k.  
      ENDIF.  
    ENDIF.  
  
    IF NOT E\_MCMSEG\_K-XUMLMC IS INITIAL.  
      CLEAR: E\_MCMSEG\_K-LGORT, E\_MCMSEG\_K-CHARG.  
    ENDIF.  
  
    IF NOT e\_mcmseg\_k-xcwesb IS INITIAL OR  
       NOT e\_mcmseg\_k-xewesb IS INITIAL OR  
       NOT e\_mcmseg\_k-xqwesb IS INITIAL.  
      CLEAR e\_mcmseg\_k-lgort.  
    ENDIF.  
  
  ENDIF.                             *" zt156m-kbbsa, Komplementärbuchung zt156m-kbbsa, complementary booking*  
  
ENDFUNCTION.

## Determining stock with **STA\_VERAENDERUNG leads to** LMCB1F20 (line 2433 to 2748)

FORM sta\_veraenderung USING xxmcmseg STRUCTURE mcmseg  
                            xt156c   STRUCTURE t156c  
                            shkzg LIKE mseg-shkzg.  
  STATICS: l\_tmarc LIKE marc.  
  IF NOT xt156c-xglgmg IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xglgmg shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_12 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_12-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 12  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_12-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'T'.  
  ELSEIF NOT xt156c-xlabst IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xlabst shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_04 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_04-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 4  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_04-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'A'.  
*\*---Eingeschraenkt verwendbar Restricted use*  
  ELSEIF NOT xt156c-xeinme IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xeinme shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_05 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_05-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 5  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_05-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'E'.  
*\*--- Qualitätsprüfung*  
  ELSEIF NOT xt156c-xinsme IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xinsme shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_06 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_06-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 6  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_06-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'B'.  
*\*--- Gesperrt Blocked*  
  ELSEIF NOT xt156c-xspeme IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xspeme shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_07 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_07-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 7  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_07-------------------------------------------------------------------------$\*$\**  
      xxmcmseg-bstaus = 'D'.  
*\*--- Retourensperrbestand Returns Block File*  
  ELSEIF NOT xt156c-xretme IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xretme shkzg.  
    xxmcmseg-bsttyp = 'R'.  
ENHANCEMENT-POINT LMCB1F20\_08 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_08-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 8  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_08-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'C'.  
*\*--- Konsignation frei verwendbar Consignment freely usable*  
  ELSEIF NOT xt156c-xklabs IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xklabs shkzg.  
    xxmcmseg-bsttyp = 'K'.  
    xxmcmseg-bstaus = 'A'.  
*\*--- Konsignation in Qualitätsprüfung Consignment in quality control*  
  ELSEIF NOT xt156c-xkinsm IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xkinsm shkzg.  
    xxmcmseg-bsttyp = 'K'.  
    xxmcmseg-bstaus = 'B'.  
*\*--- Konsignation Gesperrt Consignment Blocked*  
  ELSEIF NOT xt156c-xkspem IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xkspem shkzg.  
    xxmcmseg-bsttyp = 'K'.  
    xxmcmseg-bstaus = 'D'.  
*\*--- Konsignation nicht frei Consignment not free*  
  ELSEIF NOT xt156c-xkeinm IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xkeinm shkzg.  
    xxmcmseg-bsttyp = 'K'.  
    xxmcmseg-bstaus = 'E'.  
*\*--- Umlagerbestand Lagerort Inventory stock storage location*  
  ELSEIF NOT xt156c-xumlme IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program) USING xxmcmseg-xumlme shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_09 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_09-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 9  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_09-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'F'.  
*\*--- Umlagerbestand Werk Stock in stock at the plant*  
  ELSEIF NOT xt156c-xumlmc IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xumlmc shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_10 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_10-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 10  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_10-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'F'.  
*\*--- Transitbestand Stock in Transit*  
  ELSEIF NOT xt156c-xtrame IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xtrame shkzg.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'H'.  
*\*--- Kundenkonsignation frei verwendbar Customer consignment freely usable*  
  ELSEIF NOT xt156c-xmklkk IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmklkk shkzg.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'K'.  
*\*--- Kundenkonsignation in Qualitätsprüfung Customer consignment in quality control*  
  ELSEIF NOT xt156c-xmkqkk IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmkqkk shkzg.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'L'.  
*\*--- Kundenkonsi nicht frei \*--- Customer consumption not free*  
  ELSEIF NOT xt156c-xmkekk IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmkekk shkzg.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'M'.  
*\*--- Kundenleihgut frei verwendbar Customer returnable items can be used freely*  
  ELSEIF NOT xt156c-xmklkl IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmklkl shkzg.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'N'.  
*\*--- Kundenleihgut in Qualitätsprüfung Customer returnable goods in quality inspection*  
  ELSEIF NOT xt156c-xmkqkl IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmkqkl shkzg.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'O'.  
*\*--- Kundenleihgut nicht frei Customer returnable goods not free*  
  ELSEIF NOT xt156c-xmkekl IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmkekl shkzg.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'P'.  
*\*--- Lierfenantenbeistellung frei verwendbar Supplier provision freely usable*  
  ELSEIF NOT xt156c-xmslbo IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmslbo shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_01 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_01-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 1  ADSUB\_LMCB1F20.    *"active version*  
*\*   <RZ1529492>*  
INCLUDE ADSUB\_LMCB1F20\_I1.  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_01-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'Q'.  
*\*--- Lieferantenbeistellung in Qualitätsprüfung Supplier provision in quality control*  
  ELSEIF NOT xt156c-xmsqbo IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program) USING xxmcmseg-xmsqbo shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_02 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_02-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 2  ADSUB\_LMCB1F20.    *"active version*  
*\*   <RZ1529492>*  
INCLUDE ADSUB\_LMCB1F20\_I1.  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_02-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'R'.  
*\*--- Lieferantenbeistellung nicht frei Supplier provision not free*  
  ELSEIF NOT xt156c-xmsebo IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmsebo shkzg.  
    CLEAR xxmcmseg-bsttyp.  
ENHANCEMENT-POINT LMCB1F20\_03 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_03-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 3  ADSUB\_LMCB1F20.    *"active version*  
*\*   <RZ1529492>*  
INCLUDE ADSUB\_LMCB1F20\_I1.  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_03-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'S'.  
*\*--- Kundenauftragsbestand frei verwendbar \*--- Customer order stock freely usable*  
  ELSEIF NOT xt156c-xmeikl IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmeikl shkzg.  
    xxmcmseg-bsttyp = 'E'.  
    xxmcmseg-bstaus = 'A'.  
*\*--- Kundenauftragsbestand in Qualitätsprüfung Customer order backlog in quality control*  
  ELSEIF NOT xt156c-xmeikq IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmeikq shkzg.  
    xxmcmseg-bsttyp = 'E'.  
    xxmcmseg-bstaus = 'B'.  
*\*--- Kundenauftragsbestand gesperrt Customer order stock blocked*  
  ELSEIF NOT xt156c-xmeiks IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmeiks shkzg.  
    IF xxmcmseg-sobkz = 'T'.  
      xxmcmseg-bsttyp = 'T'.                                *"SIT*  
    ELSE.  
      xxmcmseg-bsttyp = 'E'.  
    ENDIF.  
    xxmcmseg-bstaus = 'D'.  
*\*--- Kundenauftragsbestand nicht frei Customer order stock not free*  
  ELSEIF NOT xt156c-xmeike IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmeike shkzg.  
    xxmcmseg-bsttyp = 'E'.  
    xxmcmseg-bstaus = 'E'.  
*\*--- Transitbestand bei Kundenauftragsbestand Transit stock for customer order stock*  
  ELSEIF NOT xt156c-xsatra IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xsatra shkzg.  
    xxmcmseg-bsttyp = 'E'.  
ENHANCEMENT-POINT LMCB1F20\_11 SPOTS ES\_SAPLMCB1 .  
*\*$\*$-Start: LMCB1F20\_11-------------------------------------------------------------------------$\*$\**  
ENHANCEMENT 11  ADSUB\_LMCB1F20.    *"active version*  
    include adsub\_lmcb1f20\_i1.                             *"SH 1666852*  
ENDENHANCEMENT.  
*\*$\*$-End:   LMCB1F20\_11-------------------------------------------------------------------------$\*$\**  
    xxmcmseg-bstaus = 'H'.  
*\*--- Projektbestand frei verwendbar Project inventory freely usable*  
  ELSEIF NOT xt156c-xmsprl IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmsprl shkzg.  
    xxmcmseg-bsttyp = 'Q'.  
    xxmcmseg-bstaus = 'A'.  
*\*--- Projektbestand in Qualitätsprüfung Project inventory in quality review*  
  ELSEIF NOT xt156c-xmsprq IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmsprq shkzg.  
    xxmcmseg-bsttyp = 'Q'.  
    xxmcmseg-bstaus = 'B'.  
*\*--- Projektbestand gesperrt Project inventory locked*  
  ELSEIF NOT xt156c-xmsprs IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmsprs shkzg.  
    xxmcmseg-bsttyp = 'Q'.  
    xxmcmseg-bstaus = 'D'.  
*\*--- Projektbestand nicht frei Project inventory not free*  
  ELSEIF NOT xt156c-xmspre IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmspre shkzg.  
    xxmcmseg-bsttyp = 'Q'.  
    xxmcmseg-bstaus = 'E'.  
*\*--- Transitbestand bei Projekten Transit stock for projects*  
  ELSEIF NOT xt156c-xsqtra IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xsqtra shkzg.  
    xxmcmseg-bsttyp = 'Q'.  
    xxmcmseg-bstaus = 'H'.  
*\*--- Kundenbeistellung Customer provision*  
  ELSEIF NOT xt156c-xmkubl IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmkubl shkzg.  
    xxmcmseg-bsttyp = 'E'.  
    xxmcmseg-bstaus = 'G'.  
*\*--- MTV frei verwendbar MTV freely usable*  
  ELSEIF NOT xt156c-xmtvla IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmtvla shkzg.  
    xxmcmseg-bsttyp = 'M'.  
    xxmcmseg-bstaus = 'A'.  
*\*--- MTV Qualitätsprüfung \*--- MTV quality control*  
  ELSEIF NOT xt156c-xmtvqu IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmtvqu shkzg.  
    xxmcmseg-bsttyp = 'M'.  
    xxmcmseg-bstaus = 'B'.  
*\*--- MTV nicht frei MTV not free*  
  ELSEIF NOT xt156c-xmtvei IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmtvei shkzg.  
    xxmcmseg-bsttyp = 'M'.  
    xxmcmseg-bstaus = 'E'.  
*\*--- MTV gesperrt MTV blocked*  
  ELSEIF NOT xt156c-xmtvsp IS INITIAL.  
    PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xmtvsp shkzg.  
    xxmcmseg-bsttyp = 'M'.  
    xxmcmseg-bstaus = 'D'.  
*\*--- bewerteter WE-Sperrbestand (Hinweis 1123866) valued WE blocked stock (Note 1123866)*  
  ELSEIF NOT xt156c-xbwesb IS INITIAL.  
    IF xxmcmseg-xchar IS NOT INITIAL.  
      PERFORM sta\_veraenderung\_setzen USING xxmcmseg-xcwesb shkzg.  
    ELSE.  
      PERFORM sta\_veraenderung\_setzen USING xxmcmseg-xbwesb shkzg.  
    ENDIF.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'W'.  
*\*--- bewerteter WE-Sperrbestand, Kundenauftrag valued goods receipt blocked stock, customer order*  
  ELSEIF NOT xt156c-xsabwe IS INITIAL.                          *"SIT*  
    IF xxmcmseg-xchar IS NOT INITIAL.  
      PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xewesb shkzg.  
    ELSE.  
      PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xsabwe shkzg.  
    ENDIF.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'W'.  
    xxmcmseg-bsttyp = 'E'.  
*\*--- bewerteter WE-Sperrbestand, Projekt valued WE blocked stock, project*  
  ELSEIF NOT xt156c-xsqbwe IS INITIAL.                          *"SIT*  
    IF xxmcmseg-xchar IS NOT INITIAL.  
      PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xqwesb shkzg.  
    ELSE.  
      PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xsqbwe shkzg.  
    ENDIF.  
    CLEAR xxmcmseg-bsttyp.  
    xxmcmseg-bstaus = 'W'.  
    xxmcmseg-bsttyp = 'Q'.  
*\*--- Umlagerungsbestand Lohnbearbeiter     Stock transfer subcontractor                       "OMA*  
  ELSEIF NOT xt156c-xmslbu IS INITIAL.                            *"OMA*  
    IF cl\_ops\_switch\_check=>mm\_om1\_sfws\_sc( ) EQ cl\_ops\_switch\_check=>switch\_active\_true.  
      PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xlbuml shkzg.*"OMA*  
      CLEAR xxmcmseg-bsttyp.                                      *"OMA*  
      xxmcmseg-bstaus = 'U'.                                      *"OMA*  
    ENDIF.  
*\*--- Umlagerungsbestand Kundenkonsignation           Stock transfer customer consignment             "OMA*  
  ELSEIF NOT xt156c-xmkukk IS INITIAL.                            *"OMA*  
    IF cl\_ops\_switch\_check=>mm\_om1\_sfws\_sc( ) EQ cl\_ops\_switch\_check=>switch\_active\_true.  
      PERFORM [sta\_veraenderung\_setzen](#_Another_important_program)USING xxmcmseg-xkuuml shkzg.*"OMA*

      CLEAR xxmcmseg-bsttyp.                                      *"OMA*  
      xxmcmseg-bstaus = 'X'.                                      *"OMA*  
    ENDIF.                                                        *"OMA*  
  
*\*--- Wareneingang direkt in den Verbrauch -> nicht bestandswirksam Goods receipt directly into consumption -> not effective for inventory*  
  ELSE.  
    xxmcmseg-bsttyp = 'V'.  
    xxmcmseg-bstaus = 'V'.  
  ENDIF.  
ENDFORM.                               *" STA\_VERAENDERUNG*

Entering another important function MCB\_MCMSEG\_FILL

**Key Points from mcb\_mcmseg\_fill**

**1. Direct Assignment for Consumption (No Material Number)**

If the material document position does **not** have a material number (matnr IS INITIAL), the function **directly sets**:

abap

e\_mcmseg\_l-bsttyp = 'V'.

e\_mcmseg\_l-bstaus = 'V'.

* **Meaning:** For direct consumption postings (e.g., goods issue without a material master), both BSTTYP and BSTAUS are set to 'V' (consumption).

**2. Special Handling for Subcontracting and Special Stocks**

If it's a subcontracting scenario (kzbew EQ o), the function clears BSTAUS and BSTTYP, and only sets them if certain conditions are met (e.g., special stock indicators like 'E' or 'Q').

**3. Standard Material Movements**

For standard cases (when there **is** a material number), the function **calls**:

abap

**CALL** **FUNCTION** 'MCB\_DETERMINE\_STOCKTYPE'

* This is the function that contains the detailed logic for determining BSTAUS (as analyzed previously).
* All relevant tables and structures are passed, so the mapping logic in MCB\_DETERMINE\_STOCKTYPE is always applied for these standard cases.

**4. Data Population**

The function also fills the communication structure (e\_mcmseg\_l) with values from the original document (i\_mseg), material master (i\_mcbest), and other related sources. This ensures all necessary context is available for the stock type determination.

**5. Enhancement Point**

There’s an enhancement point at the beginning (MCB\_MCMSEG\_FILL\_01), which could contain customer-specific logic that might affect how or if the stock type is updated, especially for A&D subcontracting or customer stocks.

**What Should Be Taken Into Account?**

* **Direct assignment of BSTAUS = 'V'** for consumption postings without a material number is a shortcut in the logic and should be considered when analyzing how BSTAUS is filled.
* **In all other cases, the actual logic for BSTAUS comes from MCB\_DETERMINE\_STOCKTYPE**, so both functions are important for a full understanding.
* **Special stocks and subcontracting cases** may result in BSTAUS being cleared or set differently, depending on the stock indicator and other fields.
* **Custom enhancements** (via the enhancement point) may override or influence the standard logic.

**Summary Table: Where is BSTAUS Set?**

| **Scenario** | **How is BSTAUS Set?** | **Value** |
| --- | --- | --- |
| No material number (direct consumption) | Directly in mcb\_mcmseg\_fill | 'V' |
| Subcontracting/special stock (kzbew EQ o) | Cleared or set based on special logic | Cleared/Set |
| Standard material movement | By calling MCB\_DETERMINE\_STOCKTYPE | See mapping |
| Custom logic (enhancement) | May override standard logic | Custom |

## Another important program  Form  STA\_VERAENDERUNG\_SETZEN

FORM sta\_veraenderung\_setzen USING xfeld LIKE xxmcmseg-xlabst  
                                   shkzg LIKE xxmcmseg-shkzg.  
  xfeld = plus.  
  IF shkzg = h.  
    xfeld = minus.  
  ENDIF.  
  
ENDFORM.

## Another one VERBRAUCHSKZ\_INTERPRETIEREN

*\*&---------------------------------------------------------------------\**  
*\*&      Form  VERBRAUCHSKZ\_INTERPRETIEREN*  
*\*&---------------------------------------------------------------------\**  
FORM verbrauchskz\_interpretieren  
  USING kzvbu    TYPE t156-kzvbu  
        kzvbl    TYPE t156m-kzvbl  
        shkzg    TYPE mseg-shkzg  
        xxmcmseg STRUCTURE mcmseg.  
  
  CASE kzvbu.  
    WHEN geplant.  
      xxmcmseg-mgvbr = xxmcmseg-menge.  
    WHEN reserv.  
      xxmcmseg-mgvbr = xxmcmseg-menge.  
      IF i\_mseg-rsnum =  space.  
        xxmcmseg-muvbr = xxmcmseg-menge.  
      ELSE.  
        SELECT SINGLE \* FROM resb WHERE rsnum = i\_mseg-rsnum  
                                    AND rspos = i\_mseg-rspos  
                                    AND rsart = i\_mseg-rsart.  
        IF sy-subrc = 0.  
          IF resb-bdmng LT xxmcmseg-menge.  
            xxmcmseg-muvbr = xxmcmseg-menge - resb-bdmng.  
          ENDIF.  
        ENDIF.  
      ENDIF.  
    WHEN ungepl.  
      xxmcmseg-mgvbr = xxmcmseg-menge.  
      xxmcmseg-muvbr = xxmcmseg-menge.  
  ENDCASE.  
  CASE shkzg.  
    WHEN h.  
      IF kzvbl = minus.  
*\*     Verbrauchsfortschreibung negativ. Consumption forecast negative.*  
        xxmcmseg-mgvbr = - xxmcmseg-mgvbr.  
        xxmcmseg-muvbr = - xxmcmseg-muvbr.  
      ENDIF.  
    WHEN s.  
      IF kzvbl = plus.  
*\*     Verbrauchsfortschreibung negativ. . Consumption forecast negative.*  
        xxmcmseg-mgvbr = - xxmcmseg-mgvbr.  
        xxmcmseg-muvbr = - xxmcmseg-muvbr.  
      ENDIF.  
  ENDCASE.  
ENDFORM.                               *" VERBRAUCHSKZ\_INTERPRETIEREN*

## VERBRAUCHSKZ\_INTERPRET\_EVAL

FORM verbrauchskz\_interpret\_eval USING kzvbu  
                                       kzvbl  
                                       shkzg  
                                       xxmcmseg STRUCTURE mcmseg.  
  CASE kzvbu.  
    WHEN geplant.  
      xxmcmseg-mgvbr = xxmcmseg-menge.  
    WHEN reserv.  
      xxmcmseg-mgvbr = xxmcmseg-menge.  
    WHEN ungepl.  
      xxmcmseg-mgvbr = xxmcmseg-menge.  
  ENDCASE.  
  CASE shkzg.  
    WHEN h.  
      IF kzvbl = minus.  
*\*     Verbrauchsfortschreibung negativ. . Consumption forecast negative.*  
        xxmcmseg-mgvbr = - xxmcmseg-mgvbr.  
      ENDIF.  
    WHEN s.  
      IF kzvbl = plus.  
*\*     Verbrauchsfortschreibung negativ. . Consumption forecast negative.*  
        xxmcmseg-mgvbr = - xxmcmseg-mgvbr.  
      ENDIF.  
  ENDCASE.  
ENDFORM.

## ERMITTELN\_INSMK

FORM ermitteln\_insmk USING xmseg STRUCTURE mseg.  
  
  TYPES:  
    BEGIN OF s\_mseg\_xauto,  
      mandt TYPE mandt,  
      mblnr TYPE mblnr,  
      mjahr TYPE mjahr,  
      zeile TYPE mblpo,  
      xauto TYPE mb\_xauto,  
    END OF s\_mseg\_xauto.  
  
  DATA: lv\_zeile LIKE xmseg-zeile.  
  
  DATA: i\_mseg\_xauto TYPE s\_mseg\_xauto.  
  STATICS: x\_reduced\_tab\_filled TYPE flag,  
           t\_mseg\_xauto TYPE SORTED TABLE OF s\_mseg\_xauto  
                        WITH UNIQUE KEY mandt mblnr mjahr zeile.  
  FIELD-SYMBOLS: <fmseg> TYPE mseg.  
  
  CLEAR zustd.  
  
  IF xmseg-xauto = l.  
    zustd = l.  
  ELSEIF xmseg-insmk = q OR xmseg-insmk = x OR xmseg-insmk = zwei.  
    zustd = zwei.  
  ELSEIF xmseg-insmk = s OR xmseg-insmk = drei.  
    zustd = drei.  
  ELSEIF xmseg-insmk IS INITIAL.  
    CASE xmseg-zustd.  
      WHEN space.  
        CLEAR zustd.  
      WHEN x.  
        zustd = 0.  
    ENDCASE.  
  ENDIF.  
  
*\* Special case: Empties in connection with automatically created lines*  
*\* Set zustd = xauto of previous line, use buf tab with reduced doc. data*  
  IF xmseg-xauto = 'X' AND xmseg-zustd\_t156m IS INITIAL.  
  
*\*-- First line with 'XAUTO=X' --> Fill buffer table -------------------\**  
    IF x\_reduced\_tab\_filled IS INITIAL.  
      x\_reduced\_tab\_filled = 'X'.  
      LOOP AT zmseg ASSIGNING <fmseg>.  
        CHECK zmseg-xauto EQ 'L' OR zmseg-xauto EQ 'M' OR  
              zmseg-xauto EQ 'W'.  
        i\_mseg\_xauto-mandt = <fmseg>-mandt.  
        i\_mseg\_xauto-mblnr = <fmseg>-mblnr.  
        i\_mseg\_xauto-mjahr = <fmseg>-mjahr.  
        i\_mseg\_xauto-zeile = <fmseg>-zeile.  
        i\_mseg\_xauto-xauto = <fmseg>-xauto.  
        INSERT i\_mseg\_xauto INTO TABLE t\_mseg\_xauto.  
      ENDLOOP.  
    ENDIF.  
  
*\*-- Check xauto value of the previous line ----------------------------\**  
    lv\_zeile = xmseg-zeile - 1.  
    READ TABLE t\_mseg\_xauto INTO i\_mseg\_xauto  
                            WITH KEY mandt = xmseg-mandt  
                                     mblnr = xmseg-mblnr  
                                     mjahr = xmseg-mjahr  
                                     zeile = lv\_zeile.  
    IF sy-subrc EQ 0.  
      IF i\_mseg\_xauto-xauto = 'L' OR i\_mseg\_xauto-xauto = 'M' OR  
        i\_mseg\_xauto-xauto = 'W'.  
        zustd = i\_mseg\_xauto-xauto.  
      ENDIF.  
    ENDIF.  
  
  ENDIF.  
  
*\* Spezieller Fall: Gebundenes Leergut in Transit \* Special case: Bound empties in transit*  
  IF xmseg-xauto = 'L' OR xmseg-xauto = 'M' OR  
    xmseg-xauto = 'W'.  
    zustd = xmseg-xauto.  
  ENDIF.  
  
ENDFORM.                               *" ERMITTELN\_INSMK*

## DMBTR\_ERGAENZEN\_BWTAR

FORM dmbtr\_ergaenzen\_bwtar USING    p\_e\_mcmseg\_l LIKE mcmseg  
                                    p\_e\_mcmseg\_k LIKE mcmseg.  
  
  DATA: lv\_preis TYPE f,  
        menge\_ekbe LIKE ekbe-menge,  
        menge\_mcmseg LIKE mcmseg-menge.  
  DATA: lt\_ekbe LIKE ekbe OCCURS 5 WITH HEADER LINE.  
  
  SELECT \* FROM ekbe INTO TABLE lt\_ekbe WHERE  
                     ebeln = p\_e\_mcmseg\_l-ebeln AND  
                     ebelp = p\_e\_mcmseg\_l-ebelp AND  
                     vgabe = '6' AND  
                     bwtar = p\_e\_mcmseg\_l-bwtar.  
  
  SORT lt\_ekbe BY belnr DESCENDING.  
  READ TABLE lt\_ekbe INDEX 1.  
  
  IF sy-subrc = 0.  
    menge\_ekbe = abs( lt\_ekbe-menge ).  
    menge\_mcmseg = abs( p\_e\_mcmseg\_l-menge ).  
    IF menge\_ekbe = menge\_mcmseg.  
      p\_e\_mcmseg\_l-dmbtr = lt\_ekbe-dmbtr.  
    ELSEIF NOT menge\_ekbe IS INITIAL.  
      lv\_preis = lt\_ekbe-dmbtr / menge\_ekbe.  
      p\_e\_mcmseg\_l-dmbtr = lv\_preis \* menge\_mcmseg.  
    ENDIF.  
    p\_e\_mcmseg\_k-dmbtr = p\_e\_mcmseg\_l-dmbtr.  
  ENDIF.  
  
ENDFORM.

Notes on fields

About T156M - CNT02:

*\*Feststellen Bestandsart Determine inventory type*

    IF i\_mseg-xauto EQ 'X'.  
      hlp\_cnt02   = 2.  
    ELSE.  
      hlp\_cnt02   = 1.  
    ENDIF.

Only if mseg-xauto = 'X', hlp\_cnt02 = '02'; otherwise hlp\_cnt02 = '01'