

客户/供应商主数据批导

客户/供应商主数据维护中，SAP提供了两个强大的类cmd_ei_api=>maintain_bapi和VMD_EI_API

BUS4001 公司和组织的地址

下面是客户主数据维护的例子，供应商的类似。当客户编码为数据类型时，一定要将客户编码补0，否则系统会出现莫名其妙的错误。

```
*&-----*
*& 程序名称 ZSDB0002
*& 作者   :
*& 开发日期:
*& 请求号 :
*& 描述   :
*& 开发申请:
*& 变更记录
*&
** 修改日期 开发人员 请求号 描述
*&-----*
REPORT zsdb0002 MESSAGE-ID zl_mess.
INCLUDE ZSDB0002_VAR_INCLUDE.
INCLUDE ZSDB0002_SCREEN_INCLUDE.
INCLUDE ZSDB0002_FILE_INCLUDE.
```

```
*&-----*
*& Include      ZSDB0002_VAR_INCLUDE
*&-----*
```

```
TYPES:BEGIN OF ty_basis,
  ktokd TYPE kna1-ktokd ,
  kunnr TYPE kna1-kunnr ,
  chhu  type c LENGTH 4,
  name1 TYPE adrc-name1 ,
  name2 TYPE adrc-name2 ,
  sortl TYPE kna1-sortl ,
  sort2 TYPE adrc-sort2 ,
  street TYPE adrc-street ,
  land1 TYPE kna1-land1 ,
  regio TYPE kna1-regio ,
  tel   TYPE adrc-tel_number ,
  fax   TYPE adrc-fax_number ,
  smtp  TYPE adr6-smtp_addr ,
  remark TYPE adrc-remark ,
  stceg TYPE kna1-stceg ,
  kukla TYPE kna1-kukla ,
  brsch TYPE kna1-brsch ,
  umsa1 TYPE kna1-umsa1 ,
  uwaer TYPE kna1-uwaer ,
  umjah TYPE kna1-umjah ,
  katr1 TYPE kna1-katr1 ,
  katr2 TYPE kna1-katr2 ,
  katr3 TYPE kna1-katr3 ,
  katr6 TYPE kna1-katr6 ,
  zbz   TYPE tdline ,
  zywg  TYPE tdline ,
  name11 TYPE knvk-name1 ,
  telf11 TYPE knvk-telf1 ,
  name12 TYPE knvk-name1 ,
  telf12 TYPE knvk-telf1 ,
  name13 TYPE knvk-name1 ,
  telf13 TYPE knvk-telf1 ,
END OF ty_basis.
```

```
TYPES:BEGIN OF ty_com,
  ktokd TYPE kna1-ktokd ,
  kunnr TYPE kna1-kunnr ,
  buks  TYPE knb1-buks ,
  akont TYPE knb1-akont ,
END OF ty_com.
```

```
TYPES:BEGIN OF ty_org,
  ktokd TYPE kna1-ktokd ,
  kunnr TYPE kna1-kunnr ,
  vkorg TYPE knvv-vkorg ,
  vtweg TYPE knw-vtweg ,
  spart TYPE knw-spart ,
  bzirk TYPE knw-bzirk ,
  vkbur TYPE knvv-vkbur ,
  vkgrp TYPE knvv-vkgrp ,
```

kdgrp TYPE knw-kdgrp ,
klabc TYPE knw-klabc ,
waers TYPE knw-waers ,
konda TYPE knw-konda ,
pltyp TYPE knw-pltyp ,
versg TYPE knw-versg ,
vsbed TYPE knw-vsbed ,
vwerk TYPE knw-vwerk ,
inco1 TYPE knw-inco1 ,
inco2 TYPE knw-inco2 ,
zterm TYPE knw-zterm ,
ktgrd TYPE knw-ktgrd ,
taxkd TYPE knvi-taxkd ,

kvgr1 TYPE knw-kvgr1 ,
kvgr2 TYPE knw-kvgr2 ,
zczyq TYPE tdline ,
zqyg TYPE tdline ,
zmdg TYPE tdline ,
zdtjt TYPE tdline ,
zbx TYPE tdline ,
END OF ty_org.

TYPES-BEGIN OF ty_data,
ktokd TYPE kna1-ktokd ,
kunnr TYPE kna1-kunnr ,
bukrs TYPE knb1-bukrs ,
vkorg TYPE knvv-vkorg ,
vtweg TYPE knw-vtweg ,
spart TYPE knvv-spart ,
chhu type c LENGTH 4,
name1 TYPE adrc-name1 ,
name2 TYPE adrc-name2 ,
sort1 TYPE kna1-sort1 ,
sort2 TYPE adrc-sort2 ,
street TYPE adrc-street ,
land1 TYPE kna1-land1 ,
regio TYPE kna1-regio ,
tel TYPE adrc-tel_number ,
fax TYPE adrc-fax_number ,
smtp TYPE adr6-smtp_addr ,
remark TYPE adrct-remark ,
stceg TYPE kna1-stceg ,
kukla TYPE kna1-kukla ,
brsch TYPE kna1-brsch ,
umsa1 TYPE kna1-umsa1 ,
uwaer TYPE kna1-uwaer ,
umjah TYPE kna1-umjah ,

name11 TYPE knvk-name1 ,
telf11 TYPE knvk-telf1 ,
name12 TYPE knvk-name1 ,
telf12 TYPE knvk-telf1 ,
name13 TYPE knvk-name1 ,
telf13 TYPE knvk-telf1 ,
katr1 TYPE kna1-katr1 ,
katr2 TYPE kna1-katr2 ,
katr3 TYPE kna1-katr3 ,
katr6 TYPE kna1-katr6 ,
zbx TYPE tdline ,
zywgg TYPE tdline ,
akont TYPE knb1-akont ,
bzirk TYPE knw-bzirk ,
vkbur TYPE knvv-vkbur ,
vkgrp TYPE knvv-vkgrp ,
kdgrp TYPE knw-kdgrp ,
klabc TYPE knw-klabc ,
waers TYPE knw-waers ,
konda TYPE knw-konda ,
pltyp TYPE knw-pltyp ,
versg TYPE knw-versg ,
vsbed TYPE knw-vsbed ,
vwerk TYPE knw-vwerk ,
inco1 TYPE knw-inco1 ,
inco2 TYPE knw-inco2 ,
zterm TYPE knw-zterm ,
ktgrd TYPE knw-ktgrd ,
taxkd TYPE knvi-taxkd ,
kvgr1 TYPE knw-kvgr1 ,
kvgr2 TYPE knw-kvgr2 ,
zczyq TYPE tdline ,
zqyg TYPE tdline ,

```

    zmdg TYPE tdline ,
    zdtjt TYPE tdline ,
END OF ty_data.
TYPES:BEGIN OF ty_partner,
    kunnr TYPE kna1-kunnr,
    vkorg TYPE knw-vkorg ,
    vtweg TYPE knw-vtweg ,
    spart TYPE knw-spart ,
    parw_we TYPE knvp-parw,
    kunnr_we TYPE kna1-kunnr,
    parw_zp TYPE knvp-parw,
    kunnr_zp TYPE kna1-kunnr,
    parw_sm TYPE knvp-parw,
    kunnr_sm TYPE kna1-kunnr,
END OF ty_partner.
TYPES:BEGIN OF ty_knvp,
    kunnr type knvp-kunnr,
    vkorg type knvp-vkorg,
    vtweg type knvp-vtweg,
    spart type knvp-spart,
END OF ty_knvp.
data:w_knvp type ty_knvp.
TYPES:BEGIN OF ty_log,
    row type i,
    vkorg type knw-vkorg,
    vtweg type knw-vtweg,
    spart type knw-spart,
    kunnr type kna1-kunnr,
    type type bapiret2-type,
    mesg type bapiret2-message,
    color type c LENGTH 6,
END OF ty_log.
DATA:
    t_log type STANDARD TABLE OF ty_log,
    w_log type ty_log.
DATA:
    t_data TYPE STANDARD TABLE OF ty_data,
    w_data TYPE ty_data.
data:
    t_partner TYPE STANDARD TABLE OF ty_partner,
    w_partner type ty_partner.
DATA:lv_flg.
DATA:g_parnr TYPE pamr..
DATA:ls_main TYPE cmds_ei_main,
    ls_main1 TYPE cmds_ei_main,
    ls_main2 TYPE cmds_ei_main,
    ls_mesg TYPE cvs_message,
    ls_mesg1 TYPE cvs_message,
    lt_msg TYPE bapiret2_t,
    lwa_msg TYPE bapiret2,
    lt_cust TYPE cmds_ei_extern_t,
    lwa_cust TYPE cmds_ei_extern,
    lwa_sale TYPE cmds_ei_sales,
    lt_sale TYPE cmds_ei_sales_t,
    lt_functions TYPE cmds_ei_functions_t,
    lwa_functions TYPE cmds_ei_functions,
    lt_company TYPE cmds_ei_company_t,
    lt_text TYPE cvs_ei_text_t,
    lwa_text TYPE cvs_ei_text,
    lt_content TYPE tline_tab,
    lwa_content TYPE tline,
    lwa_tax TYPE cmds_ei_tax_ind,
    lt_tax TYPE cmds_ei_tax_ind_t,
    lt_remark TYPE cvs_ei_rem_t,
    lwa_remark TYPE cvs_ei_rem,
    lt_tel TYPE cvs_ei_tlx_t,
    lwa_tel TYPE cvs_ei_tlx_str,
    lt_fax TYPE cvs_ei_fax_t,
    lwa_fax TYPE cvs_ei_fax_str,
    lt_mail TYPE cvs_ei_smtp_t,
    lwa_mail TYPE cvs_ei_smtp_str,
    lt_tel01 TYPE cvs_ei_ttx_t,
    lwa_tel01 TYPE cvs_ei_ttx_str,
    lt_contact TYPE cmds_ei_contacts_t,
    lwa_contact TYPE cmds_ei_contacts,
    lt_version TYPE cvi_ei_version_type1_t,
    lwa_version TYPE cvi_ei_version_type1,
    lt_phone TYPE cvs_ei_phone_t,
    lwa_phone TYPE cvs_ei_phone_str,
    lt_phone1 TYPE cvs_ei_phone_t,
    lwa_phone1 TYPE cvs_ei_phone_str,

```

```

lwa_company TYPE cmds_ei_company.
CONSTANTS:con_insert TYPE c VALUE 'I',
           con_update TYPE c VALUE 'M'.
DATA:t_tpkd TYPE STANDARD TABLE OF t_tpkd,
     w_tpkd TYPE t_tpkd.
DATA: it_fieldcat TYPE slis_t_fieldcat_alv,
     g_layout TYPE slis_layout_alv,
     g_repid TYPE sy-repid,
     g_title TYPE lvc_title.
DATA: wa_fieldcat LIKE LINE OF it_fieldcat.
data:
  t_basis type STANDARD TABLE OF ty_basis,
  w_basis type ty_basis,
  w_org type ty_org,
  t_org type STANDARD TABLE OF ty_org,
  t_com type STANDARD TABLE OF ty_com,
  w_com TYPE ty_com.

*&-----*
*& Include      ZSDB0002_SCREEN_INCLUDE
*&-----*

SELECTION-SCREEN BEGIN OF BLOCK b0 WITH FRAME TITLE title3.

PARAMETERS:p_test TYPE c AS CHECKBOX DEFAULT 'X'.
*PARAMETERS:p_mod type c AS LISTBOX VISIBLE LENGTH 10.
PARAMETERS: p_master TYPE c RADIOBUTTON GROUP g2 DEFAULT 'X', "不下载日志
           p_ptner TYPE c RADIOBUTTON GROUP g2.

SELECTION-SCREEN END OF BLOCK b0.
SELECTION-SCREEN BEGIN OF BLOCK b1 WITH FRAME TITLE title1.
PARAMETERS: p_fn LIKE rlgap-filename MEMORY ID zrf. "主数据文件路径
*PARAMETERS:p_test TYPE c AS CHECKBOX DEFAULT 'X'.
SELECTION-SCREEN END OF BLOCK b1.
*SELECTION-SCREEN BEGIN OF BLOCK b2 WITH FRAME TITLE title2.
*PARAMETERS: p_not TYPE c RADIOBUTTON GROUP g1 DEFAULT 'X', "不下载日志
*      p_all TYPE c RADIOBUTTON GROUP g1, "下载全部日志
*      p_eonly TYPE c RADIOBUTTON GROUP g1, "仅下载出错日志
*      p_logfn LIKE rlgap-filename. "日志文件路径
*SELECTION-SCREEN END OF BLOCK b2.

INITIALIZATION.
  title1 = '数据文件'.
  * title2 = '处理日志'.
  title3 = '导入模式'.
  * CONCATENATE 'C:\LOG_SD_CUSTOMS_MASTER' sy-datum '-' sy-uzeit '.txt' INTO p_logfn.

AT SELECTION-SCREEN ON VALUE-REQUEST FOR p_fn.
  PERFORM frm_get_fn. "取主数据文件路径

*AT SELECTION-SCREEN ON VALUE-REQUEST FOR p_logfn.
* PERFORM frm_get_logfn. "取日志文件路径

AT SELECTION-SCREEN.
  PERFORM frm_chech_filename."检测文件名

START-OF-SELECTION.
  IF p_ptner = 'X'.
    PERFORM frm_upload_data TABLES t_partner."上传文件到内表
    PERFORM frm_fill_partner_data.
  * PERFORM frm_write_log.
  PERFORM frm_shor_message.
  ELSEIF p_master = 'X'.
    PERFORM frm_upload_data TABLES t_data.."上传文件到内表
    PERFORM frm_fill_data."将数据填充内表
  * PERFORM frm_write_log.
  PERFORM frm_shor_message.
ENDIF.

*&-----*
*& Include      ZSDB0002_FILE_INCLUDE
*&-----*
*&-----*
*& Form frm_get_fn
*&-----*
*      text
*&-----*

```

FORM frm_get_fn .

```
CALL FUNCTION 'WS_FILENAME_GET'
EXPORTING
*  DEF_FILENAME   = ''
*  DEF_PATH       = ''
  mask           = ',*.txt.'
  mode           = 'O'
  title          = '客户主数据'
IMPORTING
  filename       = p_fn
*  RC             =
EXCEPTIONS
  inv_winsys     = 1
  no_batch       = 2
  selection_cancel = 3
  selection_error = 4
  OTHERS         = 5.
IF sy-subrc <> 0.
*  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
*  WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.
```

```
ENDFORM.                "frm_get_fn
*&-----*
*&  Form frm_get_logfn
*&-----*
*   text
*-----*
```

```
*FORM frm_get_logfn .
*
* CALL FUNCTION 'WS_FILENAME_GET'
* EXPORTING
**  DEF_FILENAME   = ''
**  DEF_PATH       = ''
*  mask           = ',*.txt.'
*  mode           = 'O'
*  title          = '日志文件'
* IMPORTING
*  filename       = p_logfn
**  RC             =
* EXCEPTIONS
*  inv_winsys     = 1
*  no_batch       = 2
*  selection_cancel = 3
*  selection_error = 4
*  OTHERS         = 5.
* IF sy-subrc <> 0.
**  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
**  WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
* ENDIF.
```

```
*ENDFORM.                "frm_get_logfn
*&-----*
*&  Form frm_chech_filename
*&-----*
*   text
*-----*
```

```
FORM frm_chech_filename .
  IF p_fn IS INITIAL.
    MESSAGE i010."主数据文件，路径和文件名，不能为空！
  STOP.
ENDIF.
```

```
ENDFORM.                "frm_chech_filename
*&-----*
*&  Form frm_upload_data
*&-----*
*   text
*-----*
```

FORM frm_upload_data TABLES fu_data.

```
REFRESH fu_data[].
CALL FUNCTION 'WS_UPLOAD'
EXPORTING
*  CODEPAGE       = ''
  filename        = p_fn
  filetype        = 'DAT'
*  HEADLEN        = ''
*  LINE_EXIT      = ''
*  TRUNCLEN       = ''
*  USER_FORM      = ''
```

```

* USER_PROG          = ''
* DAT_D_FORMAT       = ''
* IMPORTING
* FILELENGTH         =
TABLES
  data_tab           = fu_data[]
EXCEPTIONS
  conversion_error   = 1
  file_open_error    = 2
  file_read_error    = 3
  invalid_type       = 4
  no_batch           = 5
  unknown_error      = 6
  invalid_table_width = 7
  gui_refuse_filetransfer = 8
  customer_error     = 9
  no_authority       = 10
  OTHERS             = 11
.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.

```

```

IF fu_data[] IS INITIAL.
  MESSAGE '文件为空！' TYPE 'I'.
  STOP.
ENDIF.

```

```

ENDFORM.          "frm_upload_data

```

```

*&-----*
*&  Form frm_fill_partner
*&-----*
*      text
*-----*

```

```

FORM frm_fill_partner_data.
  REFRESH lt_cust.
  DATA:lt_data TYPE STANDARD TABLE OF ty_knvp,
        lw_data TYPE ty_knvp.
  REFRESH lt_data.
  LOOP AT t_partner INTO w_partner.
    lwa_cust-header-object_task = 'C'.
    CALL FUNCTION 'CONVERSION_EXIT_ALPHA_INPUT'
      EXPORTING
        input  = w_partner-kunnr
      IMPORTING
        output = lwa_cust-header-object_instance-kunnr.
  * lwa_cust-header-object_instance-kunnr = w_partner-kunnr.
  CLEAR lwa_sale.
  REFRESH lt_sale.
  lwa_sale-task = 'U'.
  lwa_sale-data_key-vkorg = w_partner-vkorg.
  lwa_sale-data_key-vtweg = w_partner-vtweg.
  lwa_sale-data_key-spart = w_partner-spart.
  * lwa_cust-central_data-central-data-ktokd = 'Z002'. "账户组
  * lwa_cust-central_data-central-dataax-ktokd = 'X'.
  REFRESH lt_functions.
  CLEAR w_knvp.
  MOVE-CORRESPONDING w_partner TO w_knvp.
  PERFORM frm_fill_partner01 USING w_partner-parvw_zp w_partner-kunnr_zp w_knvp.
  PERFORM frm_fill_partner01 USING w_partner-parvw_sm w_partner-kunnr_sm w_knvp.
  PERFORM frm_fill_partner01 USING w_partner-parvw_we w_partner-kunnr_we w_knvp.

```

```

lwa_sale-functions-functions = lt_functions.

```

```

APPEND lwa_sale TO lt_sale.
CLEAR lwa_sale.
lwa_cust-sales_data-sales = lt_sale.
REFRESH lt_sale.
APPEND lwa_cust TO lt_cust.
MOVE-CORRESPONDING w_partner TO lw_data.
APPEND lw_data TO lt_data.
CLEAR lw_data.

```

```

CLEAR lwa_cust.

```

```

ENDLOOP.
ls_main-customers = lt_cust.
PERFORM frm_write_data_sap TABLES lt_data.

```

```

FREE ls_main.
REFRESH lt_cust.
ENDFORM.          "frm_fill_partner
*&-----*
*&   Form FRM_INPUT_DATA
*&-----*
*   text
*-----*
* --> p1      text
* <-- p2      text
*-----*
FORM frm_fill_data .
* 主数据
DATA:lt_data TYPE STANDARD TABLE OF ty_knvp,
      lw_data TYPE ty_knvp.
REFRESH lt_cust.
data:l_kunnr1 type knvp-kunnr.
DATA:l_kunnr TYPE kna1-kunnr.
DATA:lt_kna1 TYPE STANDARD TABLE OF kna1.
DATA:lw_kna1 TYPE kna1.

*切割数据
"客户+公司信息
LOOP AT t_data INTO w_data.
  MOVE-CORRESPONDING w_data TO w_basis.
  MOVE-CORRESPONDING w_data TO w_com.
  MOVE-CORRESPONDING w_data TO w_org.
  APPEND w_basis TO t_basis.
  APPEND w_com TO t_com.
  APPEND w_org TO t_org.
  CLEAR:w_com,w_org,w_basis,w_data.
ENDLOOP.
SORT t_basis BY kunnr.
SORT t_org  BY kunnr vkorg vtweg spart.
SORT t_com BY kunnr buksr.
"客户+基本信息
DELETE ADJACENT DUPLICATES FROM t_basis COMPARING kunnr.
DELETE ADJACENT DUPLICATES FROM t_org COMPARING kunnr vkorg vtweg spart .
DELETE ADJACENT DUPLICATES FROM t_com COMPARING kunnr buksr.
"客户+销售组织信息

LOOP AT t_basis INTO w_basis.
  "判定该客户是否存在

"获取默认合作伙伴
REFRESH t_tpkd.
SELECT *
  FROM tpakd
 INTO CORRESPONDING FIELDS OF TABLE t_tpkd
 WHERE ktokd = w_basis-ktokd.

CALL FUNCTION 'CONVERSION_EXIT_ALPHA_INPUT'
  EXPORTING
    input  = w_basis-kunnr
  IMPORTING
    output = lwa_cust-header-object_instance-kunnr.
CLEAR l_kunnr.
SELECT SINGLE kunnr
  FROM kna1
 INTO l_kunnr
 WHERE kunnr = lwa_cust-header-object_instance-kunnr.
* lwa_cust-header-object_instance-kunnr = w_data-kunnr."客户编码

lwa_cust-central_data-central-data-ktokd = w_basis-ktokd."账户组
IF l_kunnr IS INITIAL.
  lwa_cust-header-object_task = 'I'.
ELSE.
  lwa_cust-header-object_task = 'M'.

ENDIF.

lwa_cust-central_data-central-data-brsch = w_basis-brsch."行业
lwa_cust-central_data-central-data-umsa1 = w_basis-umsa1.
lwa_cust-central_data-central-data-kukla = w_basis-kukla.
lwa_cust-central_data-central-data-ka1 = w_basis-ka1.
lwa_cust-central_data-central-data-ka2 = w_basis-ka2.
lwa_cust-central_data-central-data-ka3 = w_basis-ka3.
lwa_cust-central_data-central-data-ka6 = w_basis-ka6.

```

```
lwa_cust-central_data-central-data-uwaer = w_basis-uwaer.  
lwa_cust-central_data-central-data-stceg = w_basis-stceg."增值稅號"  
lwa_cust-central_data-central-data-umjah = w_basis-umjah."貨幣"
```

```
lwa_cust-central_data-central-datax-ka1 = 'X'.  
lwa_cust-central_data-central-datax-ka2 = 'X'.  
lwa_cust-central_data-central-datax-ka3 = 'X'.  
lwa_cust-central_data-central-datax-ka6 = 'X'.  
lwa_cust-central_data-central-datax-brsch = 'X'.  
lwa_cust-central_data-central-datax-umsa1 = 'X'.  
lwa_cust-central_data-central-datax-uwaer = 'X'."貨幣"  
lwa_cust-central_data-central-datax-umjah = 'X'."貨幣"  
lwa_cust-central_data-central-data-civve = 'X'.  
lwa_cust-central_data-central-datax-ktokd = 'X'.  
lwa_cust-central_data-central-datax-civve = 'X'.
```

*地址数据

```
lwa_cust-central_data-address-task = con_insert.  
lwa_cust-central_data-address-postal-data-title = w_basis-chhu.  
lwa_cust-central_data-address-postal-data-name = w_basis-name1.  
lwa_cust-central_data-address-postal-data-name_2 = w_basis-name2.  
lwa_cust-central_data-address-postal-data-street = w_basis-street.  
lwa_cust-central_data-address-postal-data-region = w_basis-regio.  
lwa_cust-central_data-address-postal-data-langu = sy-langu.  
lwa_cust-central_data-address-postal-data-country = w_basis-land1.  
lwa_cust-central_data-address-postal-data-sort1 = w_basis-sort1.  
lwa_cust-central_data-address-postal-datax-sort1 = 'X'.  
lwa_cust-central_data-address-postal-data-sort2 = w_basis-sort2.  
lwa_cust-central_data-address-postal-datax-sort2 = 'X'.  
lwa_cust-central_data-address-postal-datax-title = 'X'.  
lwa_cust-central_data-address-postal-datax-name = 'X'.  
lwa_cust-central_data-address-postal-datax-name_2 = 'X'.  
lwa_cust-central_data-address-postal-datax-langu = 'X'.  
lwa_cust-central_data-address-postal-datax-country = 'X'.  
lwa_cust-central_data-address-postal-datax-street = 'X'.  
lwa_cust-central_data-address-postal-datax-region = 'X'.
```

*地址注释

```
CLEAR lwa_remark.  
REFRESH lt_remark.  
lwa_remark-task = con_insert.  
lwa_remark-data-langu = sy-langu.  
lwa_remark-data-adr_notes = w_basis-remark.  
lwa_remark-datax-langu = 'X'.  
lwa_remark-datax-adr_notes = 'X'.  
APPEND lwa_remark TO lt_remark.  
lwa_cust-central_data-address-remark-remarks = lt_remark.
```

*电话

```
CLEAR lwa_phone.  
REFRESH lt_phone.  
lwa_phone-contact-task = con_insert.  
lwa_phone-contact-data-telephone = w_basis-tel.  
lwa_phone-contact-datax-telephone = 'X'.  
APPEND lwa_phone TO lt_phone.  
lwa_cust-central_data-address-communication-phone-phone = lt_phone.
```

*传真

```
CLEAR lwa_fax.  
REFRESH lt_fax.  
lwa_fax-contact-task = con_insert.  
lwa_fax-contact-data-fax = w_basis-fax.  
lwa_fax-contact-datax-fax = 'X'.  
APPEND lwa_fax TO lt_fax.  
lwa_cust-central_data-address-communication-fax-fax = lt_fax.
```

*电子邮件

```
CLEAR lwa_mail.  
REFRESH lt_mail.  
lwa_mail-contact-task = con_insert.  
lwa_mail-contact-data-e_mail = w_basis-smtp.  
lwa_mail-contact-datax-e_mail = 'X'.  
APPEND lwa_mail TO lt_mail.  
lwa_cust-central_data-address-communication-smtp-smtp = lt_mail.
```

*联系人1

```
*CLEAR g_pamr.  
*CALL FUNCTION 'NUMBER_GET_NEXT'  
* EXPORTING  
*   nr_range_nr      = 'AP'  
*   object            = 'PARTNER'  
*   quantity         = '1'  
* IMPORTING  
*   number            = g_pamr
```



```

* EXCEPTIONS
* interval_not_found = 1
* number_range_not_intern = 2
* object_not_found = 3
* quantity_is_0 = 4
* quantity_is_not_1 = 5
* interval_overflow = 6
* buffer_overflow = 7
* OTHERS = 8.
*
*lwa_contact-task = 'I'.
*lwa_contact-address_type_3-task = 'I'.
*lwa_contact-data_key-parmr = g_parmr.
*lwa_contact-address_type_3-postal-data-firstname = 'aa'.
*lwa_contact-address_type_3-postal-data-lastname = 'bb'.
*lwa_contact-address_type_3-postal-datax-firstname = 'X'.
*lwa_contact-address_type_3-postal-datax-lastname = 'X'.
*
**联系人电话
*
*lwa_phone1-contact-task = 'I'.
*lwa_phone1-contact-data-telephone = '89999888'.
*lwa_phone1-contact-data-extension = '3434343'.
*lwa_phone1-contact-datax-extension = 'X'.
*lwa_phone1-contact-datax-telephone = 'X'.
*APPEND lwa_phone1 TO lt_phone1.
*
*lwa_contact-address_type_3-communication-phone-phone = lt_phone1.
*APPEND lwa_contact TO lt_contact.

REFRESH lt_contact.
PERFORM frm_fill_contact USING w_basis-name11 w_basis-telf11.
PERFORM frm_fill_contact USING w_basis-name12 w_basis-telf12.
PERFORM frm_fill_contact USING w_basis-name13 w_basis-telf13.
lwa_cust-central_data-contact-contacts = lt_contact.

*会计注释
* CLEARlwa_text.
REFRESH lt_text.
* CLEARlwa_content.
REFRESH lt_content.
* lwa_text-task = 'M'.
* lwa_text-data_key-text_id = '0002'.
* lwa_text-data_key-langu = sy-langu.
* lwa_content-tdformat = '*'.
* lwa_content-tdline = 'TEST001'.
* APPEND lwa_content TO lt_content.
* CLEAR lwa_content.
* lwa_text-data = lt_content.
*
* APPEND lwa_text TO lt_text.

*备注
* REFRESH lt_content.
* CLEAR lwa_content.
* CLEAR lwa_text.
* lwa_text-task = 'M'.
* lwa_text-data_key-text_id = 'Z301'.
* lwa_text-data_key-langu = sy-langu.
* lwa_content-tdformat = '*'.
* lwa_content-tdline = 'TEST002'.
* APPEND lwa_content TO lt_content.
* CLEAR lwa_content.
* lwa_text-data = lt_content.
*
* APPEND lwa_text TO lt_text.
PERFORM frm_fill_text USING 'Z301' w_basis-zbz.
*有无店招广告
* REFRESH lt_content.
* REFRESH lt_content.
* CLEAR lwa_content.
* CLEAR lwa_text.
* lwa_text-task = 'M'.
* lwa_text-data_key-text_id = 'Z302'.
* lwa_text-data_key-langu = sy-langu.
* lwa_content-tdformat = '*'.
* lwa_content-tdline = 'TEST003'.
* APPEND lwa_content TO lt_content.
* CLEAR lwa_content.
* lwa_text-data = lt_content.
* APPEND lwa_text TO lt_text.

```

```
PERFORM frm_fill_text USING 'Z302' w_basis-zywgg.  
lwa_cust-central_data-text-texts = lt_text.
```

```
REFRESH lt_company.
```

```
* 公司代码数据
```

```
LOOP AT t_com INTO w_com WHERE kunnr = w_basis-kunnr.
```

```
CLEAR lwa_company.
```

```
lwa_company-task = 'M'.
```

```
lwa_company-data_key-bukrs = w_com-bukrs.
```

```
* lwa_company-data-zuawa = '001'.
```

```
lwa_company-data-akont = w_com-akont.
```

```
* lwa_company-datax-zuawa = 'X'.
```

```
lwa_company-datax-akont = 'X'.
```

```
APPEND lwa_company TO lt_company.
```

```
CLEAR:w_com.
```

```
ENDLOOP.
```

```
lwa_cust-company_data-company = lt_company.
```

```
*销售数据
```

```
"销售数据文本
```

```
*称重要求
```

```
*tax
```

```
REFRESH lt_sale.
```

```
LOOP AT t_org INTO w_org WHERE kunnr = w_basis-kunnr.
```

```
CLEAR lwa_sale.
```

```
REFRESH lt_text.
```

```
PERFORM frm_fill_text USING 'Z201' w_org-zbz.
```

```
* REFRESH lt_content.
```

```
* CLEAR:lwa_text,lwa_content.
```

```
* lwa_text-task = 'M'.
```

```
* lwa_text-data_key-text_id = 'Z201'.
```

```
* lwa_text-data_key-langu = sy-langu.
```

```
* lwa_content-tdformat = '*'.
```

```
* lwa_content-tdline = w_data-zczyq.
```

```
* APPEND lwa_content TO lt_content.
```

```
* CLEAR lwa_content.
```

```
* lwa_text-data = lt_content.
```

```
* APPEND lwa_text TO lt_text.
```

```
PERFORM frm_fill_text USING 'Z202' w_org-zbz.
```

```
* REFRESH lt_content.
```

```
* CLEAR:lwa_text,lwa_content.
```

```
* lwa_text-task = 'M'.
```

```
* lwa_text-data_key-text_id = 'Z202'.
```

```
* lwa_text-data_key-langu = sy-langu.
```

```
* lwa_content-tdformat = '*'.
```

```
* lwa_content-tdline = w_data-zqyg.
```

```
* APPEND lwa_content TO lt_content.
```

```
* CLEAR lwa_content.
```

```
* lwa_text-data = lt_content.
```

```
* APPEND lwa_text TO lt_text.
```

```
PERFORM frm_fill_text USING 'Z203' w_org-zmdg.
```

```
* REFRESH lt_content.
```

```
* CLEAR:lwa_text,lwa_content.
```

```
* lwa_text-task = 'M'.
```

```
* lwa_text-data_key-text_id = 'Z203'.
```

```
* lwa_text-data_key-langu = sy-langu.
```

```
* lwa_content-tdformat = '*'.
```

```
* lwa_content-tdline = w_data-zmdg.
```

```
* APPEND lwa_content TO lt_content.
```

```
* CLEAR lwa_content.
```

```
* lwa_text-data = lt_content.
```

```
* APPEND lwa_text TO lt_text.
```

```
* REFRESH lt_content.
```

```
*
```

```
* lwa_text-task = 'M'.
```

```
* lwa_text-data_key-text_id = 'Z204'.
```

```
* lwa_text-data_key-langu = sy-langu.
```

```
* lwa_content-tdformat = '*'.
```

```
* lwa_content-tdline = w_data-zmdd.
```

```
* APPEND lwa_content TO lt_content.
```

```
* CLEAR lwa_content.
```

```
* lwa_text-data = lt_content.
```

```
*
```

```
* APPEND lwa_text TO lt_text.
```

```
* REFRESH lt_content.
```

```
* CLEAR:lwa_text,lwa_content.
```

```

* lwa_text-task = 'M'.
* lwa_text-data_key-text_id = 'Z205'.
* lwa_text-data_key-langu = sy-langu.
* lwa_content-tdformat = '*'.
* lwa_content-tdline = w_data-zdttj.
* APPEND lwa_content TO lt_content.
* CLEAR lwa_content.
* lwa_text-data = lt_content.
* APPEND lwa_text TO lt_text.
PERFORM frm_fill_text USING 'Z205' w_org-zdttj.
lwa_sale-texts-texts = lt_text.

```

```

lwa_sale-task = 'M'.
lwa_sale-data_key-vkorg = w_org-vkorg.
lwa_sale-data_key-vtweg = w_org-vtweg.
lwa_sale-data_key-spart = w_org-spart.
lwa_sale-data-zterm = w_org-zterm.
lwa_sale-data-vkgrp = w_org-vkgrp.
lwa_sale-data-vkbur = w_org-vkbur.
lwa_sale-data-waers = w_org-waers.
lwa_sale-data-kvgr1 = w_org-kvgr1.
lwa_sale-data-kvgr2 = w_org-kvgr2.
lwa_sale-data-inco1 = w_org-inco1.
lwa_sale-data-inco2 = w_org-inco2.
lwa_sale-data-bzirk = w_org-bzirk.
lwa_sale-data-kdgrp = w_org-kdgrp."客户组
lwa_sale-data-versg = w_org-versg."客户统计组
lwa_sale-data-vsbed = w_org-vsbed."装运条件
lwa_sale-data-vwerk = w_org-vwerk.
lwa_sale-data-ktgrd = w_org-ktgrd."账户分配
lwa_sale-data-klabc = w_org-klabc."ABC等级
lwa_sale-data-konda = w_org-konda."价格租
lwa_sale-data-pltyp = w_org-pltyp."价格清单
IF w_org-konda IS NOT INITIAL.
  lwa_sale-datax-konda = 'X'."价格租
ENDIF.
IF w_org-pltyp IS NOT INITIAL.
  lwa_sale-datax-pltyp = 'X'."价格清单
ENDIF.
IF w_org-klabc IS NOT INITIAL.
  lwa_sale-datax-klabc = 'X'."ABC等级
ENDIF.
IF w_org-zterm IS NOT INITIAL.
  lwa_sale-datax-zterm = 'X'.
ENDIF.
IF w_org-vkgrp IS NOT INITIAL.
  lwa_sale-datax-vkgrp = 'X'.
ENDIF.
IF w_org-vkbur IS NOT INITIAL.
  lwa_sale-datax-vkbur = 'X'.
ENDIF.
IF w_org-waers IS NOT INITIAL.
  lwa_sale-datax-waers = 'X'.
ENDIF.
IF w_org-kvgr1 IS NOT INITIAL.
  lwa_sale-datax-kvgr1 = 'X'.
ENDIF.
IF w_org-kvgr2 IS NOT INITIAL.
  lwa_sale-datax-kvgr2 = 'X'.
ENDIF.
IF w_org-inco1 IS NOT INITIAL.
  lwa_sale-datax-inco1 = 'X'.
ENDIF.
IF w_org-inco2 IS NOT INITIAL.
  lwa_sale-datax-inco2 = 'X'.
ENDIF.
IF w_org-bzirk IS NOT INITIAL.
  lwa_sale-datax-bzirk = 'X'.
ENDIF.
IF w_org-kdgrp IS NOT INITIAL.
  lwa_sale-datax-kdgrp = 'X'."客户组
ENDIF.
IF w_org-versg IS NOT INITIAL.
  lwa_sale-datax-versg = 'X'."客户统计组
ENDIF.
IF w_org-vsbed IS NOT INITIAL.
  lwa_sale-datax-vsbed = 'X'."装运条件
ENDIF.
IF w_org-vwerk IS NOT INITIAL.
  lwa_sale-datax-vwerk = 'X'.
ENDIF.

```

```

IF w_org-ktgrd IS NOT INITIAL.
  lwa_sale-datax-ktgrd = 'X'."账户分配
ENDIF.

REFRESH lt_functions.
CLEAR w_knvp.
MOVE-CORRESPONDING w_org TO w_knvp.

LOOP AT t_tpkd INTO w_tpkd.
  select SINGLE kunnr FROM knvp INTO l_kunnr1 WHERE kunnr = w_basis-kunnr and vkorg = w_org-vkorg and vtweg = w_org-vtweg and spart =
w_org-spart.
  if sy-subrc ne 0.
    PERFORM frm_fill_partner USING w_tpkd-parvw lwa_cust-header-object_instance-kunnr w_knvp.
  ENDIF.

ENDLOOP.
* CLEAR lwa_functions.
* lwa_functions-task = 'I'.
* lwa_functions-data_key-parvw = 'I'.
* lwa_functions-data_key-parvw = 'WE'.
** lwa_functions-data-partner = 'AY9'.
* lwa_functions-data-defpa = 'X'.
* lwa_functions-datax-defpa = 'X'.
* lwa_functions-datax-partner = 'X'.
* APPEND lwa_functions TO lt_functions.
*
* CLEAR lwa_functions.
* lwa_functions-task = 'I'.
* lwa_functions-data_key-parvw = 'I'.
* lwa_functions-data_key-parvw = 'RG'.
** lwa_functions-data-partner = 'AY9'.
* lwa_functions-data-defpa = 'X'.
* lwa_functions-datax-defpa = 'X'.
* lwa_functions-datax-partner = 'X'.
* APPEND lwa_functions TO lt_functions.
*
*
* CLEAR lwa_functions.
* lwa_functions-task = 'I'.
* lwa_functions-data_key-parvw = 'I'.
* lwa_functions-data_key-parvw = 'SM'.
** lwa_functions-data-partner = 'GX0001'.
* lwa_functions-data-defpa = 'X'.
* lwa_functions-datax-defpa = 'X'.
* lwa_functions-datax-partner = 'X'.
* APPEND lwa_functions TO lt_functions.
*
*
* CLEAR lwa_functions.
* lwa_functions-task = 'I'.
* lwa_functions-data_key-parvw = 'I'.
* lwa_functions-data_key-parvw = 'AG'.
* lwa_functions-data-defpa = 'X'.
* lwa_functions-datax-defpa = 'X'.
* APPEND lwa_functions TO lt_functions.
*
*
* CLEAR lwa_functions.
* lwa_functions-task = 'I'.
* lwa_functions-data_key-parvw = 'I'.
* lwa_functions-data_key-parvw = 'RE'.
* lwa_functions-data-defpa = 'X'.
* lwa_functions-datax-defpa = 'X'.
* APPEND lwa_functions TO lt_functions.

CLEAR lwa_tax.
REFRESH lt_tax.
lwa_tax-task = 'M'.
lwa_tax-data_key-aland = 'CN'.
lwa_tax-data_key-tatyp = 'MWST' .
lwa_tax-data-taxkd = w_org-taxkd.
lwa_tax-datax-taxkd = 'X'.
APPEND lwa_tax TO lt_tax.

lwa_sale-functions-functions = lt_functions.

APPEND lwa_sale TO lt_sale.
CLEAR lwa_sale.
CLEAR:w_org.
endloop.

```

```

lwa_cust-central_data-tax_ind-tax_ind = lt_tax.
lwa_cust-sales_data-sales = lt_sale.
* lwa_cust-sales_data-CURRENT_STATE = 'X'.
  REFRESH lt_sale.
  APPEND lwa_cust TO lt_cust.
  MOVE-CORRESPONDING w_basis TO lw_data.
  APPEND lw_data TO lt_data.
  CLEAR lw_data.
  CLEAR lwa_cust.
ENDLOOP.
ls_main-customers = lt_cust.
PERFORM frm_write_data_sap TABLES lt_data."创建数据到SAP中
FREE ls_main.
REFRESH lt_cust.

ENDFORM.          " FRM_INPUT_DATA

*&-----*
*&  Form frm_fill_contact
*&-----*
*   text
*-----*
*   -->FU_NAME  text
*   -->FU_PHONE text
*-----*
FORM frm_fill_contact USING fu_name fu_phone.
IF fu_name IS NOT INITIAL OR fu_phone IS NOT INITIAL.
  CLEAR lwa_contact.
  CLEAR g_pamr.
  CALL FUNCTION 'NUMBER_GET_NEXT'
    EXPORTING
      nr_range_nr      = 'AP'
      object            = 'PARTNER'
      quantity          = '1'
    IMPORTING
      number            = g_pamr
  EXCEPTIONS
    interval_not_found = 1
    number_range_not_intern = 2
    object_not_found   = 3
    quantity_is_0       = 4
    quantity_is_not_1   = 5
    interval_overflow   = 6
    buffer_overflow     = 7
    OTHERS              = 8.
  lwa_contact-task = 'I'.
  lwa_contact-address_type_3-task = 'I'.
  lwa_contact-data_key-pamr = g_pamr.
*lwa_contact-address_type_3-postal-data-firstname = 'aa'.
  lwa_contact-address_type_3-postal-data-lastname = fu_name.
*lwa_contact-address_type_3-postal-datax-firstname = 'X'.
  lwa_contact-address_type_3-postal-datax-lastname = 'X'.
  "联系人电话
  CLEAR lwa_phone1.
  REFRESH lt_phone1.
  lwa_phone1-contact-task = 'I'.
  lwa_phone1-contact-data-telephone = fu_phone.
*lwa_phone1-contact-data-extension = '3434343'.
*lwa_phone1-contact-datax-extension = 'X'.
  lwa_phone1-contact-datax-telephone = 'X'.
  APPEND lwa_phone1 TO lt_phone1.
  lwa_contact-address_type_3-communication-phone-phone = lt_phone1.
  APPEND lwa_contact TO lt_contact.
ENDIF.
ENDFORM.          "frm_fill_contact

*&-----*
*&  Form frm_fill_text
*&-----*
*   text
*-----*
*   -->FU_ID    text
*   -->FU_CONTENT text
*-----*
FORM frm_fill_text USING fu_id fu_content.
REFRESH lt_content.
REFRESH lt_content.
CLEAR lwa_content.
CLEAR lwa_text.
lwa_text-task = 'M'.
lwa_text-data_key-text_id = fu_id.

```

```

lwa_text-data_key-langu = sy-langu.
lwa_content-tdformat = '*'.
lwa_content-tdline = fu_content.
APPEND lwa_content TO lt_content.
CLEAR lwa_content.
lwa_text-data = lt_content.
APPEND lwa_text TO lt_text.
ENDFORM.                "frm_fill_text
*&-----*
*&   Form FRM_WRITE_DATA_SAP
*&-----*
*   text
*-----*
* --> p1      text
* <-- p2      text
*-----*

FORM frm_write_data_sap TABLES fu_data TYPE STANDARD TABLE.
DATA:l_ilines TYPE i.
DATA:l_message TYPE string.
DATA:l_iindex TYPE i.
FREE:ls_main1,ls_main2,ls_mesg,ls_mesg1.
DATA:lw_data TYPE ty_knvp.
* FREE:cmd_ei_api=>gt_global_kna1_old.
DESCRIBE TABLE fu_data[] LINES l_ilines.
CALL METHOD cmd_ei_api=>maintain_bapi
EXPORTING
  iv_test_run      = p_test
  iv_collect_messages = 'X'
  is_master_data    = ls_main1
IMPORTING
  es_master_data_correct = ls_main1
  es_message_correct     = ls_mesg1
  es_master_data_defective = ls_main2
  es_message_defective   = ls_mesg.
REFRESH lt_msg.
CLEAR lv_flg.
lt_msg = ls_mesg-messages.
l_iindex = 0.
DO l_ilines TIMES.
  l_iindex = l_iindex + 1.
  READ TABLE fu_data INTO lw_data INDEX l_iindex.
  READ TABLE lt_msg INTO lwa_msg WITH KEY row = l_iindex.
  IF sy-subrc NE 0."没有任何改行的信息，表明成功
    CLEAR w_log.
    CLEAR l_message.
    w_log-row = l_iindex.
    w_log-kunnr = lw_data-kunnr.
    w_log-type = 'S'.
    CONCATENATE '客户' w_log-kunnr '创建/修改成功' INTO l_message.
    w_log-mesg = l_message.
    APPEND w_log TO t_log.
    COMMIT WORK.
  ELSE.
    CLEAR lv_flg.
    LOOP AT lt_msg INTO lwa_msg WHERE row = l_iindex.
      CLEAR l_message.
      l_message = lwa_msg-message.

*   WRITE: / lwa_cust-header-OBJECT_INSTANCE-kunnr,lwa_msg-type,l_message.
      IF lwa_msg-type = 'E' OR lwa_msg-type = 'A'.
        CLEAR w_log.
        w_log-row = l_iindex.
        w_log-kunnr = lw_data-kunnr.
        w_log-type = lwa_msg-type.
        w_log-mesg = l_message.
        APPEND w_log TO t_log.
        lv_flg = 'X'.
      ENDIF.
      CLEAR:lwa_msg.
    ENDLOOP.

  IF lv_flg IS INITIAL.
    CLEAR w_log.
    CLEAR l_message.
    w_log-row = l_iindex.
    w_log-kunnr = lw_data-kunnr.
    w_log-type = 'S'.
    CONCATENATE '客户' w_log-kunnr '创建/修改成功' INTO l_message.
    w_log-mesg = l_message.
    APPEND w_log TO t_log.
    COMMIT WORK.
  
```

```

ELSE.
  ROLLBACK WORK.
ENDIF.
ENDIF.
ENDDO.
* LOOP AT lt_msg INTO lwa_msg.
*   CLEAR l_message.
*   l_message = lwa_msg-message.
*
**   WRITE: / lwa_cust-header-OBJECT_INSTANCE-kunnr,lwa_msg-type,l_message.
*   IF lwa_msg-type = 'E' OR lwa_msg-type = 'A'.
*     CLEAR w_log.
*     w_log-kunnr = lwa_cust-header-object_instance-kunnr.
*     w_log-type = lwa_msg-type.
*     w_log-mesg = l_message.
*     APPEND w_log TO t_log.
*     lv_flg = 'X'.
*   ENDIF.
*   CLEAR:lwa_msg.
* ENDLOOP.
* IF lv_flg IS INITIAL.
*   CLEAR w_log.
*   CLEAR l_message.
*   w_log-kunnr = lwa_cust-header-object_instance-kunnr.
*   w_log-type = 'S'.
*   CONCATENATE '客户' w_log-kunnr '创建/修改成功' INTO l_message.
*   w_log-mesg = l_message.
*   APPEND w_log TO t_log.
*   COMMIT WORK.
* ELSE.
*   ROLLBACK WORK.
* ENDIF.
* WAIT UP TO '0.5' SECONDS.
ENDFORM.          " FRM_WRITE_DATA_SAP
*&-----*
*&   Form frm_fill_partner
*&-----*
*   text
*-----*
*   -->FU_PARWW  text
*-----*
FORM frm_fill_partner USING fu_parww fu_kunnr fu_data TYPE ty_knvp.

DATA:l_parza TYPE knvp-parza.
CLEAR l_parza.
CLEAR lwa_functions.
lwa_functions-task = 'M'.
lwa_functions-data_key-parww = 'M'.
lwa_functions-data_key-parww = fu_parww.

```

```

* IF NOT fu_kunnr IS INITIAL.
*   SELECT SINGLE MAX( parza )
* FROM knvp
* INTO l_parza
* WHERE kunnr = fu_data-kunnr
* AND vkorg = fu_data-vkorg
* AND vtweg = fu_data-vtweg
* AND spart = fu_data-spart
* AND parww = fu_parww.
*   l_parza = l_parza + 1.
*   lwa_functions-data_key-parza = '000'.
*   lwa_functions-data-partner = fu_kunnr.
*   lwa_functions-datax-partner = 'X'.
* ELSE.
*   lwa_functions-data-partner = 'AY9'.
*   lwa_functions-data-defpa = 'X'.
*   lwa_functions-datax-defpa = 'X'.
*   lwa_functions-datax-partner = 'X'.
* ENDIF.
APPEND lwa_functions TO lt_functions.

```

```

ENDFORM.          "frm_fill_partner
*&-----*
*&   Form FRM_INSERT_PARTNER
*&-----*
*   text
*-----*
*   --> p1      text
*   <-- p2      text

```

```

*-----*
FORM frm_insert_partner .
CALL METHOD cmd_ei_api=>maintain_bapi
EXPORTING
    iv_test_run      = p_test
    iv_collect_messages = 'X'
    is_master_data    = ls_main
IMPORTING
    es_master_data_correct = ls_main1
    es_message_correct     = ls_mesg1
    es_master_data_defective = ls_main2
    es_message_defective   = ls_mesg.
lt_msg = ls_mesg-messages.
LOOP AT lt_msg INTO lwa_msg.
    WRITE: / lwa_msg-type,lwa_msg-message.
    IF lwa_msg-type = 'E' OR lwa_msg-type = 'A'.
        lv_flg = 'X'.
    ENDIF.
ENDLOOP.
IF lv_flg IS INITIAL.

    COMMIT WORK.
ELSE.
    ROLLBACK WORK.
ENDIF.

ENDFORM.          " FRM_INSERT_PARTNER
*&-----*
*&  Form  FRM_WRITE_LOG
*&-----*
*      text
*-----*
* --> p1      text
* <-- p2      text
*-----*
FORM frm_write_log .
LOOP AT t_log INTO w_log.
    IF w_log-type = 'E'.
        WRITE:/ w_log-kunnr UNDER w_log-kunnr COLOR COL_NEGATIVE,
            w_log-type UNDER w_log-type COLOR COL_NEGATIVE,
            w_log-mesg UNDER w_log-mesg COLOR COL_NEGATIVE.
    ELSEIF w_log-type = 'A'.
        WRITE:/ w_log-kunnr UNDER w_log-kunnr COLOR COL_NEGATIVE,
            w_log-type UNDER w_log-type COLOR COL_NEGATIVE,
            w_log-mesg UNDER w_log-mesg COLOR COL_NEGATIVE.
    ELSEIF w_log-type = 'W'.
        WRITE:/ w_log-kunnr UNDER w_log-kunnr COLOR COL_TOTAL,
            w_log-type UNDER w_log-type COLOR COL_TOTAL,
            w_log-mesg UNDER w_log-mesg COLOR COL_TOTAL.
    ELSEIF w_log-type = 'S'.
        WRITE:/ w_log-kunnr UNDER w_log-kunnr COLOR COL_POSITIVE ,
            w_log-type UNDER w_log-type COLOR COL_POSITIVE ,
            w_log-mesg UNDER w_log-mesg COLOR COL_POSITIVE .
    ELSE.
*      WRITE:/ w_log-kunnr UNDER w_log-kunnr COLOR COL_HEADING ,
*      w_log-type UNDER w_log-type COLOR COL_HEADING ,
*      w_log-mesg UNDER w_log-mesg COLOR COL_HEADING .
    ENDIF.
    CLEAR w_log.
ENDLOOP.
ENDFORM.          " FRM_WRITE_LOG
*&-----*
*&  Form  FRM_SHOR_MESSAGE
*&-----*
*      text
*-----*
* --> p1      text
* <-- p2      text
*-----*
FORM frm_shor_message .
PERFORM frm_layout_build."设置 layout
PERFORM frm_fieldcat_build."填充 fieldcat
PERFORM frm_display_data."显示 ALV
ENDFORM.          " FRM_SHOR_MESSAGE
*&-----*
*&  Form  FRM_LAYOUT_BUILD
*&-----*
*      text
*-----*
* --> p1      text
* <-- p2      text

```



```

* IS_PRINT                =
* IS_REPREP_ID            =
* I_SCREEN_START_COLUMN   = 0
* I_SCREEN_START_LINE     = 0
* I_SCREEN_END_COLUMN     = 0
* I_SCREEN_END_LINE       = 0
* I_HTML_HEIGHT_TOP       = 0
* I_HTML_HEIGHT_END       = 0
* IT_ALV_GRAPHICS         =
* IT_HYPERLINK            =
* IT_ADD_FIELDCAT         =
* IT_EXCEPT_QINFO       =
* IR_SALV_FULLSCREEN_ADAPTER =
* IMPORTING
*   E_EXIT_CAUSED_BY_CALLER =
*   ES_EXIT_CAUSED_BY_USER  =
TABLES
  t_outtab                = t_log[]
EXCEPTIONS
  program_error           = 1
  OTHERS                  = 2
.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.
ENDFORM.                " FRM_DISPLAY_DATA

*&-----*
*&   Form frm_fill_partner01
*&-----*
*       text
*-----*
*   -->FU_PARWW  text
*   -->FU_KUNNR  text
*   -->FU_DATA   text
*-----*
FORM frm_fill_partner01 USING fu_parww fu_kunnr fu_data TYPE ty_knvp.
IF fu_kunnr IS NOT INITIAL.
  DATA:l_parza TYPE knvp-parza.
  CLEAR l_parza.
  CLEAR lwa_functions.
  lwa_functions-task = 'M'.
  lwa_functions-data_key-parww = 'M'.
  lwa_functions-data_key-parww = fu_parww.

IF NOT fu_kunnr IS INITIAL.
  SELECT SINGLE MAX( parza )
    FROM knvp
    INTO l_parza
    WHERE kunnr = fu_data-kunnr
    AND   vkorg = fu_data-vkorg
    AND   vtweg = fu_data-vtweg
    AND   spart = fu_data-spart
    AND   parww = fu_parww.
  l_parza = l_parza + 1.
  lwa_functions-data_key-parza = l_parza.
  CALL FUNCTION 'CONVERSION_EXIT_ALPHA_INPUT'
    EXPORTING
      input  = fu_kunnr
    IMPORTING
      output = lwa_functions-data-partner.
*   lwa_functions-data-partner = fu_kunnr.
  lwa_functions-datax-partner = 'X'.
ELSE.
*   lwa_functions-data-partner = 'AY9'.
  lwa_functions-data-defpa = 'X'.
  lwa_functions-datax-defpa = 'X'.
  lwa_functions-datax-partner = 'X'.
ENDIF.
APPEND lwa_functions TO lt_functions.
ENDIF.

ENDFORM.                "frm_fill_partner01

```