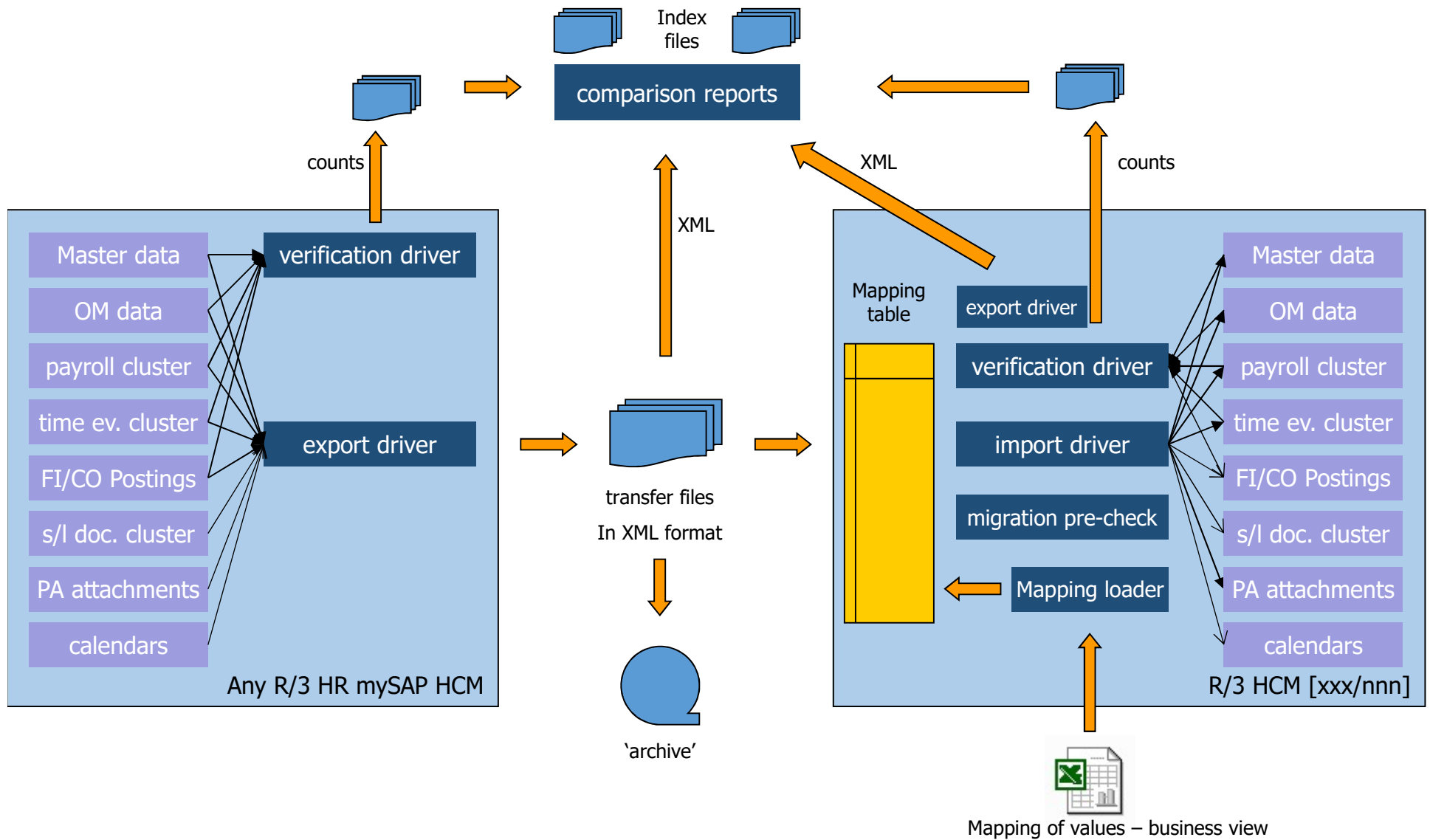


The NLS SAP HCM migration toolset

Summary of *customer usable* functionality



Overview of the migration toolset on the ,target' side

▼ Z_MAT_MIGRATION	Mathesis HCM Migration toolset
▶ Dictionary Objects	
▼ Programs	
▶ Z_MAT_MIG_CHECK_LOGSYS	MATHESIS: Analysis of logical systems in tables
▶ Z_MAT_MIG_CHECK_OM	MATHESIS: Update of P relationships in OM
▶ Z_MAT_MIG_DRW	MATHESIS Universal Data R/W
▶ Z_MAT_MIG_EXP_PAPTPY	MATHESIS Migration Export PA/PT/PY
▶ Z_MAT_MIG_EXP_PBC	MATHESIS Migration Export PBC
▶ Z_MAT_MIG_EXP_PD	MATHESIS Migration Export PD
▶ Z_MAT_MIG_EXP_POSTINGS	MATHESIS Migration Export Postings
▶ Z_MAT_MIG_EXP_TABLES	MATHESIS Migration Export Tables
▶ Z_MAT_MIG_IMP_FAVORITES	MATHESIS Migration Import Favorites
▶ Z_MAT_MIG_IMP_JOB_DEFS	MATHESIS Migration Import of Job Definitions
▶ Z_MAT_MIG_IMP_PAPTPY	MATHESIS Migration Import PA/PT/PY
▶ Z_MAT_MIG_IMP_PBC	MATHESIS Migration Import PBC
▶ Z_MAT_MIG_IMP_PD	MATHESIS Migration Import PD
▶ Z_MAT_MIG_IMP_POSTINGS	MATHESIS Migration Import Postings
▶ Z_MAT_MIG_IMP_TABLES	MATHESIS Migration Import Tables
▶ Z_MAT_MIG_LOAD_MAPPINGS	MATHESIS Migration Load Mappings from EXCEL
▶ Z_MAT_MIG_MAP_PRPS	MATHESIS Migration Map PRPS
▶ Z_MAT_MIG_OS	MATHESIS Universal OS
▶ Z_MAT_MIG_RELATE_PRPS	MATHESIS Migration IRelate PRPS versions
▶ Z_MAT_MIG_STATISTICS	MATHESIS Migration Statistics
▶ Z_MAT_MIG_TR_GET	MATHESIS Universal TR Get
▶ Z_MAT_MIG_TR_PUT	MATHESIS Universal TR Put
▶ Z_MAT_MIG_UCMP	MATHESIS Universal Call Transaction
▶ Z_MAT_MIG_UCT	MATHESIS Universal Call Transaction
▶ Z_MAT_MIG_UDEL	MATHESIS Migration Universal Delete
▶ Z_MAT_MIG_VERIFICATION_DETAILS	MATHESIS Migration Verification Details
▶ Z_MAT_MIG_VERIFICATION_OV	MATHESIS Migration Verification Overview

Export of data from tables to application server or local files

Z_MAT_MIG_EXP_TABLES

File(s) to application server or local PC

XML-formatted (do not use)

Large file mode (use whenever not local)

List of tables (multiple selections and wildcards)

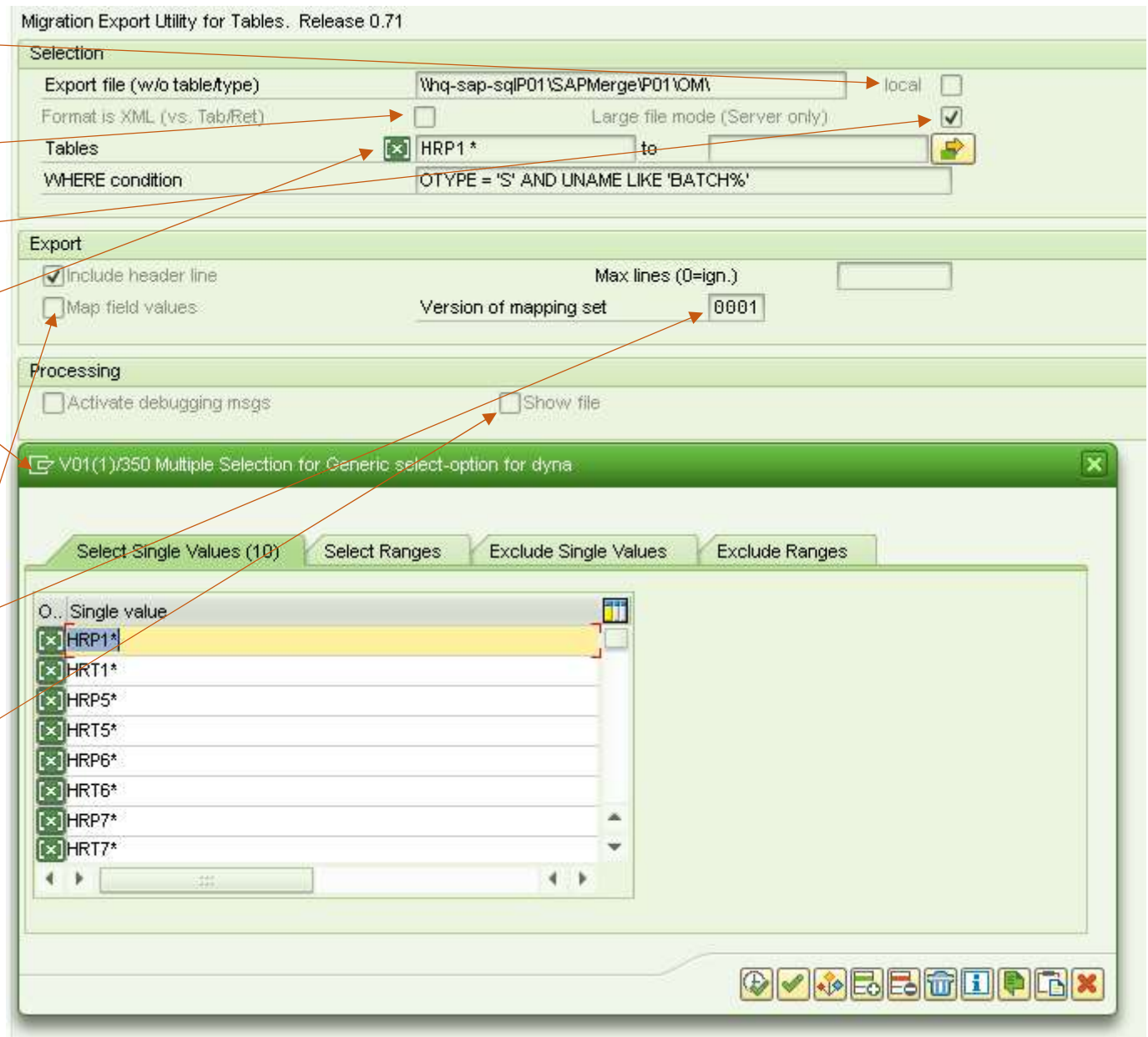
SQL ,WHERE' condition

Limit number of rows

Mapping of values according to mapping table (e.g. WBS elements)

Output file content to screen (mostly used together with limiting # of rows)

For larger or multiple tables and if file on application server, may run as job (F9).



Import of data into tables from application server or local files

Z_MAT_MIG_IMP_TABLES

Directory/file to import from

File(s) from application server or local PC

Depends on UNIX vs. Windows OS

List of tables (multiple selections)

,Import' : always; ,Short' : if from SE11/16; ,Export' : if from Export tool.

Whether to commit or rollback; after how many rows (memory issues)

Skip and/or Limit number of rows

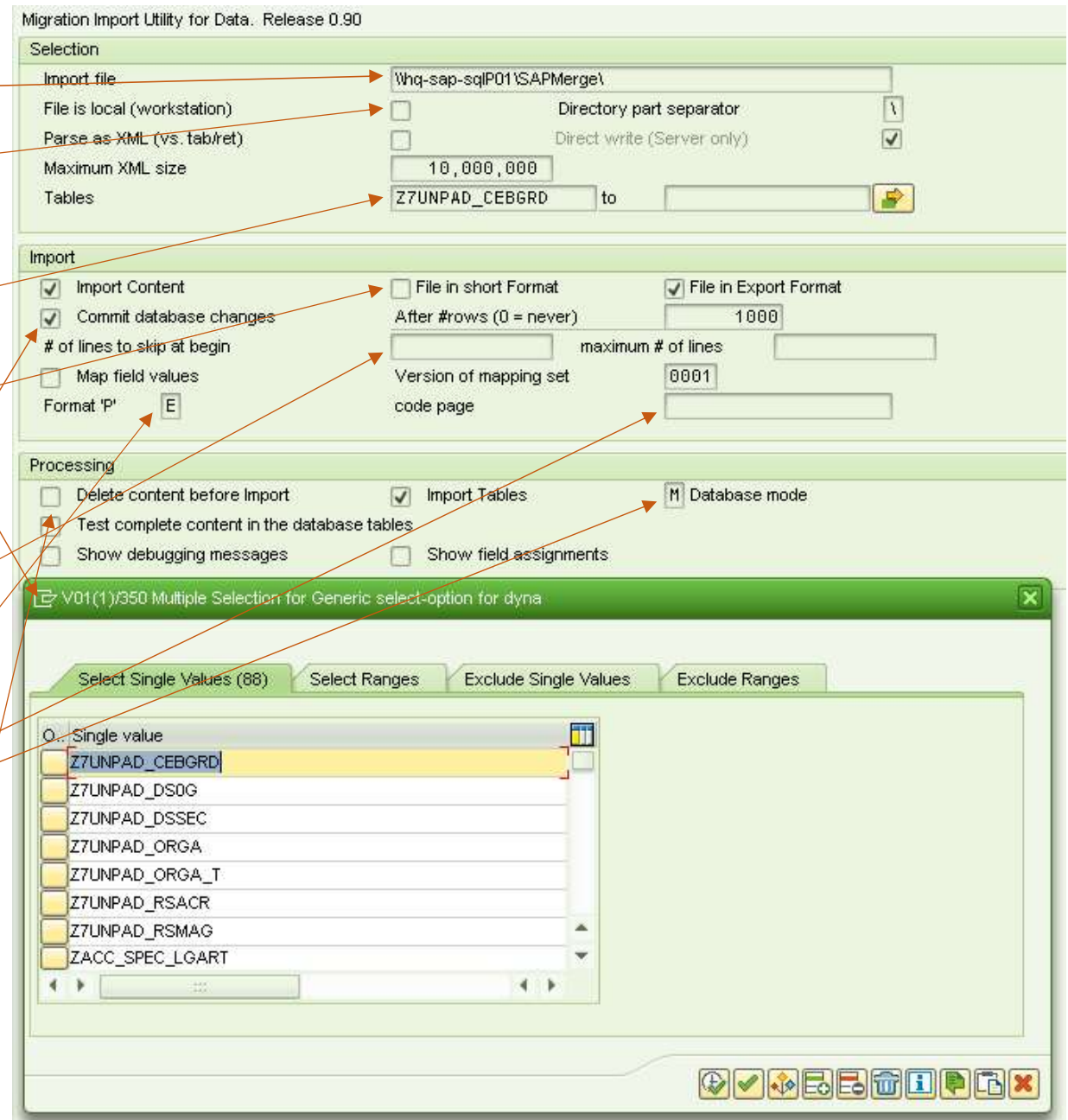
Format of date and f.p. : ,E' = english

Leave empty for UNICODE (usual)

M)odify; I)nsert; U)pdate

Delete complete table(s) before import

For larger or multiple tables and if file on application server, may run as job (F9).



Import of data into tables from application server or local files

Z_MAT_MIG_IMP_TABLES


Configuration of application server vs. local PC based files


Configuration dependent of source was the EXPORT tool or an SE11 / SE16 download.

Migration Import Tables

Migration Import Utility for Data. Release 0.90


Selection

Import file: 

File is local (workstation) Directory part separator: 

Parse as XML (vs. tab/ret) Direct write (Server only)

Maximum XML size:

Tables: to 

Import

Import Content File in short Format File in Export Format

Commit database changes After #rows (0 = never)

of lines to skip at begin maximum # of lines

Map field values Version of mapping set

Format 'P' code page

Processing

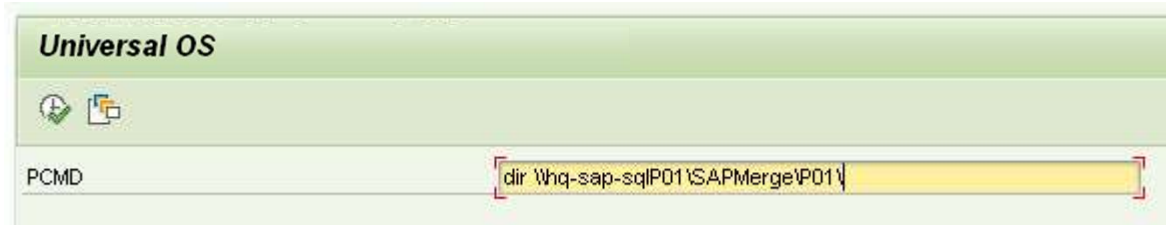
Delete content before Import Import Tables Database mode

Test complete content in the database tables

Show debugging messages Show field assignments

Executing commands on operating system level of the application server

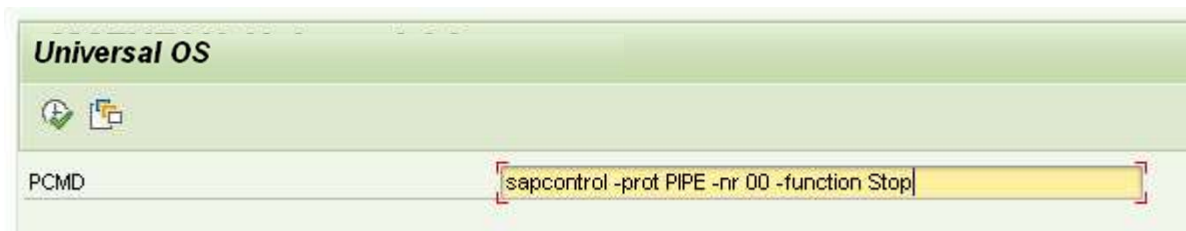
Z_MAT_MIG_OS



Execution of a command on the application server.

May be a single command, e.g. ,ls' or ,dir'; or a batch/script or any executable.

Runs with the authorization of the SAP service!



Uploading and downloading of transports from/to local files

Z_MAT_MIG_TR_GET

Z_MAT_MIG_TR_PUT

Download an existing released transport request to local files (always two files).

Universal TR Get



Transport number	<input type="text" value="D11K937762"/>
Directory on app server	<input type="text" value="Whq-sapitf\itf\trans\EHP7"/>
Local directory	<input type="text" value="\\Client\C\$\Users\rmk\Documents\Mathesis\Customers\UNESCO\..."/>
Delete file from server dir.	<input type="checkbox"/>
Delete transport from system	<input type="checkbox"/>

Upload the file representation (always two files) of a released transport into the directory of the import queue. Via STMS the transport can then be added to the queue and imported.

Universal TR Put



Transport number	<input type="text" value="D11K937762"/>
Directory on app server	<input type="text" value="Whq-sapitf\itf\trans\EHP7"/>
Local directory	<input type="text" value="\\Client\C\$\Users\rmk\Documents\Mathesis\Customers\UNESCO\..."/>

Only required if transports are not located on the same shared directory

DRW: Executing SQL / ABAP statements online

Z_MAT_MIG_DRW

8 lines for ABAP and/or SQL statements

Create CNT variable for counting purposes (seldom used)

Create ERG (,result') ITAB and an accoring output loop (seldom used)

Whether to rollback or committ after the execution of the command

Fetch the code from a local file instead of the above lines (,F4' to select file).

Create code to loop over an import file (seldom used)

Show a selection screen (usually with the file option)

Do not create the try/catch frame (required if already provided in the code)

Instead of execution, show gen. code.

For long running tasks, to prevent a timeout, may run as job (F9).

Data Editor rel. 1.4 (error-checking)

Code/SQL	
PAR_SQL1	
PAR_SQL2	
PAR_SQL3	update COOI
PAR_SQL4	set RFSYS = 'P01MDT100'
PAR_SQL5	where RFSYS = 'P11MDT100'
PAR_SQL6	
PAR_SQL7	
PAR_SQL8	
PAR_SQL9	
<input type="checkbox"/> DO_CNT	
<input type="checkbox"/> DO_ERG	
<input checked="" type="radio"/> DO_RBACK	
<input type="radio"/> DO_COMM	
PFILE	
<input type="checkbox"/> DO_LOOP	
DSN	
<input type="checkbox"/> WITH_PS	
<input type="checkbox"/> NO_CATCH	
INP_SIZE	10
INP_CNT	1
<input type="checkbox"/> DO_SHOW	

DRW: Executing ABAP code from a local file

Z_MAT_MIG_DRW

DO_RBACK
 DO_COMM

PFILE: Y:\Customers\UNESCO\migration2016\DRW_Scripts\check_COOI.txt

DO_LOOP

DSN: _____

WITH_PS

The code to be executed is read from a local file and has to be formatted like any ABAP report.

If the code contains parameters and the option ,WITH_PS' is set; then the selection screen of the program is displayed; otherwise the code runs with the default values.

In case of errors the error description and line number is displayed

Commit/Rollback has to be handled at the program level; the radio buttons of DRW are ignored here !

```
report z.
data: t_cooi type table of COOI,
      l_cooi_1 type COOI,
      l_cooi_2 type COOI,
      ind type i,
      ident(1) type C.

select * from COOI into table t_cooi
  where rfsys = 'P11MDT100'.

clear: ind.
loop at t_cooi into l_cooi_1.
  add 1 to ind.
  if ind > 1000000.
    exit.
  endif.
  select single * from cooi into l_cooi_2
    where refbt = l_cooi_1-refbt
    and refbn = l_cooi_1-refbn
    and rfpos = l_cooi_1-rfpos
    and rfknt = l_cooi_1-rfknt
    and rftrm = l_cooi_1-rftrm
    and lifnr = l_cooi_1-lifnr
    and lednr = l_cooi_1-lednr
    and objnr = l_cooi_1-objnr
    and hrkft = l_cooi_1-hrkft
    and rforg = l_cooi_1-rforg
    and rftyp = l_cooi_1-rftyp
    and rfsys = 'P01MDT350'.
  if sy-subrc is initial.
    l_cooi_2-rfsys = l_cooi_1-rfsys.
    l_cooi_2-timestamp = l_cooi_1-timestamp.
    if l_cooi_1 = l_cooi_2.
      ident = 'I'.
    else.
      ident = 'N'.
    endif.
    delete cooi from l_cooi_2.
    write: / 'D1:', l_cooi_1-refbn, ':', sy-subrc, sy-dbcnt, ider.
  else.
    delete cooi from l_cooi_1.
    write: / 'S1:', l_cooi_1-refbn, ':', sy-subrc, sy-dbcnt.
  l_cooi_1-rfsys = 'P01MDT350'.
  insert cooi from l_cooi_1.
  write: / 'S2:', l_cooi_1-refbn, ':', sy-subrc, sy-dbcnt.
endif.

endloop.

if 1 = 1.
  rollback work.
  write: / 'Rolled back'.
else.
  commit work.
  write: / 'Committed'.
endif.
```

Recommendations

Decide whether / which parts you want to obtain

Copy those programs into new ones

Delete complete NLS toolset package ('Z_MAT_MIGRATION')

Transport the deletion request into verification/production systems

Notice

NLS has provided you with the strong recommendation to remove its toolset from your production systems as they are a security and data integrity risk.

NLS does not support the programs of the toolset nor guarantees a certain behavior.

NLS is not responsible for any damage you'll create by using the toolset.