

9. MIGRATING TO NEW ZTWS RELEASES

The files listed below must be adapted

- TWSGRAPH.CLIST(OPZXPARM)
- "Old" TWS/Graph jobs which are still used.
- The transaction procedures OPCGAD and OPCGCP (If you are using TCP/IP or APPC)
- If you want to use the ISPF dialog of TWS/Graph, you must modify some panels, see "How to Modify Panels" on page 30.

You must also download the appropriate load modules from HORIZONT's homepage and copy them into your TWS/Graph load library, e.g. TWSGRAPH.LOAD:

http://www.horizont-it.com/public_html/fix.htm

zTWS Parameters in OPZXPARM

The following parameters have to be modified in TWSGRAPH.CLIST(OPZXPARM)

```
/*-----*/
/* TWS DATASETS, SUBSYSTEM, VERSION */
/* OpzOVer TWS release */
/* OpzAdDs AD<-VSAM file */
/* OpzWsDs WS-VSAM file */
/* OpzOiDs OI-VSAM file */
/* OpzRdDs RD-VSAM file */
/* OpzSiDs SI-VSAM file */
/* OpzMsDs TWS message-library */
/* OpzLdDs TWS load-Lib OPC 8.1 OpzOVer = "8" */
/* OpzLdLL TWS load-Lib in linklist? TWS 8.2 OpzOVer = "9" */
/* TWS 8.3 OpzOVer = "B" */
/* OpzSSys TWS subsystem */
/* OpzDCal Name TWS-default calendar */
/*-----*/
OpzOVer = "B"
OpzAdDs = "P390A.PROD.TWS.V8R3.AD"
OpzWsDs = "P390A.PROD.TWS.V8R3.WS"
OpzOiDs = "P390A.PROD.TWS.V8R3.OI"
OpzRdDs = "P390A.PROD.TWS.V8R3.RD"
OpzSiDs = "P390A.PROD.TWS.V8R3.SI"
OpzLtDs = "P390A.PROD.TWS.V8R3.LT"
OpzMsDs = "P390A.PROD.TWS.V8R3.SEQMSG0"
OpzLdDs = "P390A.PROD.TWS.V8R3.SEQQLMD0"
OpzLdLL = "N"
OpzSSys = "OPBC"
OpzDCal = "DEFAULT"
```

These modifications are taken into account immediately. That means that all jobs generated after the modification are correct.

zTWS Parameters in "old" Batch Jobs

All jobs which have been generated by TWS/Graph or TWS/XRef before the modification of OPCXPARM, for example unload jobs which read the AD or the CP every day, have to be modified manually.

CP Unload

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          P390G.SPFTEMP1.CNTL          Columns 00001
00072
                                Scroll ==>
OPGICPU8 for TWS 8.1
OPGICPU9 for TWS 8.2
OPGICPUB for TWS 8.3
                                ***** Top of Data
                                *****
000001 //P390G.SPFTEMP1.CNTL, 'TWS/GRAPH 4.2',MSGCLASS=T,
000002 // NOT, SUID,REGION=6M
000003 //*
000004
//*****
000005 //* CREATE PARM
000006
//*****
000007 //PARMGEN EXEC PGM=IEBGENER
000008 //SYSIN DD DUMMY
000009 //SYSPRINT DD SYSOUT=*
000010 //SYSOUT DD SYSOUT=*
000011 //SYSUT1 DD *
000012 INIT CWBASE (000001) HIGHDATE (711231) SUBSYS (OPBC)
000013 //SYSUT2 DD DISK (NEW,PASS),DSN=&&PARM,SPACE=(TRK,(1,1)),
000014 // UNIT=SYSDA,
000015 // DCB=(LRECL=80,RECFM=FB)
000016 //*
000017
//*****
000018 //* UNLOAD CP SUBSYSTEM=OP9C
000019
//*****
000020 //CPUNL EXEC PGM=OPGICPUB,REGION=6M,
000021 // PARM='DEP(0),ER(0)/'
000022 //STEPLIB DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3.SEQQLMD0
000023 //PRGRCF DD DISP=(NEW,PASS),DSN=&&PRGRCF,
000024 // SPACE=(TRK,(1,1)),
000025 // UNIT=SYSDA,
000026 // DCB=(LRECL=80,BLKSIZE=8000,RECFM=FB)
000027 //SYSPRINT DD SYSOUT=*
000028 //SYSOUT DD SYSOUT=*
000029 //EQQMLIB DD DSN=P390A.PROD.TWS.V8R3.SEQQMSG0,DISP=SHR
000030 //EQQMLOG DD SYSOUT=*
000031 //EQQYPARM DD DISP=(OLD,DELETE),DSN=&&PARM
000032 //OPGTEXT DD DUMMY
000033 //OPGPC DD DISP=OLD,DSN=P390G.TWSGRAPH.CP
000034 //OPGDAT DD DUMMY
000035 //PARMIN DD *
000036 OPCSUBSYSTEMNAME=OPBC
000037 PIFMSGLEVEL=1
000038 LISTINSYSPRINT=Y
000039 OPGPC=OS2

```

OPGICPU8 for TWS 8.1
OPGICPU9 for TWS 8.2
OPGICPUB for TWS 8.3

New OPC Subsys

New dataset name

New dataset name

New OPC Subsys

AD Unload

```
File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          P390G.SPFTEMP1.CNTL          Columns 00001 00072
Command ==>          Scroll ==> CSR
000001 //P390GX JOB , 'TWS/GRAPH 4.2',MSGCLASS=T,
000002 // NOTIFY=&SYSUID,REGION=6M
000003 //*
000004 //*****
000005 //* UNLOAD TWS-VSAM DSN=P390A.PROD.TWS.V8R3.AD
000006 //*****
000007 //ADUNL      EXEC PGM=OPUIADB,
000008 // PARM= ('DEP(0),ER(0) /',
000009 //          'OI=N PC=OS2 OD=N EX=Y PW=RNCECLI
000010 //STEPLIB DD DISP=SHR,DSN=P390A.TWSGRAPH
000011 //          DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3
000012 //SYSPRINT DD SYSOUT=*
000013 //SYSOUT DD SYSOUT=*
000014 //MODELIN DD *
000015 IA01EQ*
000016 //ADRKIN DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3.AD
000017 //ADRSIN DD DISP=SHR,DSN=*.ADRKIN
000018 //OPUOI DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3
000019 //OPUPC DD DISP=OLD,DSN=P390G.TWSGRAPH
***** Bottom of Data *****
```

OPUIAD8 for TWS 8.1
OPUIAD9 for TWS 8.2
OPUIADB for TWS 8.3

New dataset name

TWS/XRef

```
File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          P390G.SPFTEMP1.CNTL          Columns 00001 00072
Command ==>          Scroll ==> CSR
***** Top of Data *****
000001 //P390GX JOB , 'TWS/GRAPH 4.2',MSGCLASS=T,
000002 // NOTIFY=&SYSUID,REGION=6M
000003 //*
000004 //OPCXREF EXEC PGM=OPXIADB,
000005 //          PARM= ('DEP(0),ER(0) /',
000006 //          'ML=2 LN=21 PW=RNCECLI')
000007 //STEPLIB DD DISP=SHR,DSN=P390A.TWSGRAPH.LOAD23
000008 //          DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3.SEQQLMDO
000009 //SYSPRINT DD SYSOUT=*
000010 //SYSOUT DD SYSOUT=*
000011 //MODELIN DD DSN=P390G.TWSXREF.SYSIN,DISP=SHR
000012 //ADRKIN DD DSN=P390A.PROD.TWS.V8R3.AD,DISP=SHR
000013 //ADRSIN DD DSN=*.ADRKIN,DISP=SHR
000014 //DATOUT DD DSN=P390G.TWSXREF.LIST,DISP=OLD
000015 //
***** Bottom of Data *****
```

OPXIAD8 for TWS 8.1
OPXIAD9 for TWS 8.2
OPXIADB for TWS 8.3

New datasetname

zTWS Parameters in TCP/IP Procedures

If you are using TCP/IP: Modify the two TCP/IP procedures in USER.PROCLIB, or generate the two procedures again by using OPGXTCP.

OPCGCP

```
File Edit Confirm Menu Utilities C
-----
EDIT      USER.PROCLIB(OPCGCP) - 01.00          Columns 00001 00072
Command ==>
***** Top of *****
==MSG> -CAUTION- Profile is set to STAT N. Stati
==MSG>      this member, but will be generate
000001 //OPCGCP   PROC  UID=USERID
000002 //CPUNL   EXEC PGM=OPGICPUB
000003 // PARM=('HEAP(1M,256K),DEP(0),ERRCOUNT(0)',
000004 //      'PC=TCPIP,OS=OP9C')
000005 //STEPLIB DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3.SEQQLMDO
000006 //UWORK   DD DSN=,DISP=SHR
000007 //SYSIN   DD DUMMY
000008 //EQQYPARM DD DISP=SHR,DSN=P390A.TWSGRAPH
000009 //EQQMLIB  DD DISP=SHR,DSN=P390A.PROD.TWS
```

OPGICPU8 for TWS 8.1
OPGICPU9 for TWS 8.2
OPGICPUB for TWS 8.3

New OPC Subsys

Steplib of the the new OPC

OPCGAD

```
File Edit Confirm Menu Utilities Compilers T
-----
EDIT      USER.PROCLIB(OPCGAD) - 01.10          Columns 00001 00072
Command ==>
***** Top of Data *****
000001 //OPCGAD   PROC  UID=USERID
000002 //ADUNL   EXEC PGM=OPUIADB,
000003 // PARM=('HEAP(1M,256K),DEP(0),ER(0)/PC=TCPIP PW=RIKIYZF',
000004 //      ' UID=&UID')
000005 //STEPLIB DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3.SEQQLMDO
000006 //UWORK   DD DISP=SHR,DSN=,*
000007 //SYSIN   DD DISP=SHR,DSN=,*
000008 //CEEDUMP DD SYSOUT=*
000009 //EQQYPARM DD DISP=SHR,DSN=P390Z.TWSGRAPH.V4R1.SK
000010 //EQQMLIB DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3
000011 //EQQMLOG DD DISP=(NEW,PASS),DSN=&&EQQMLOG,SPACE=(TRK,(1,1)),
000012 //      DCB=(RECFM=VBA,LRECL=134,REKSIZE=23476),UNIT=SYSDA
000013 //ADRKIN   DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3.AD
000014 //ADRSIN DD DISP=SHR,DSN=*.ADRKIN
000015 //OPUOI   DD DISP=SHR,DSN=P390A.PROD.TWS.V8R3.OI
```

OPUIAD8 for TWS 8.1
OPUIAD9 for TWS 8.2
OPUIADB for TWS 8.3

New VSAM dataset names

Adapt Skels Member OPZSLT for TWS 8.3 (and later)

The forecast function of TWS/Graph needs a new DD statement EQQLOOP in step CPCREATE. Edit member TWSGRAPH.SKELS(OPZSLT), and insert a new DD statement into step CPCREATE.

```
EDIT          P390A.OPG.CLIST(OPZSLT) - 01.41          Columns 00001
00072
  Command ==>                                         Scroll ==>
CSR
000305 //CPCREATE EXEC PGM=EQQBATCH, PARM='EQQDTTOP', REGION=4096K
000306 )SEL &OPZLDDS NE &Z
000307 //STEPLIB DD DISP=SHR, DSN=&OPZLDDS
000308 )ENDSEL
000309 //EQQMLIB DD DISP=SHR, DSN=&OPZMSDS
000310 )SEL &OPZTPLGY NE &Z
000311 //EQQSCLIB DD DISP=SHR, DSN=&OPZSCDS
000312 )ENDSEL
000313 //EQQPARM DD DISP=(SHR,PASS), DSN=&&&&PARM2 (XXXX)
000314 //EQQTROUT DD DUMMY, DCB=BLKSIZE=100
000315 //EQQMLOG DD SYSOUT=*
000316 //EQQDMSG DD SYSOUT=*
000317 //EQQDUMP DD SYSOUT=*
000318 //EQQLOOP DD SYSOUT=*
000319 //SYSMDUMP DD SYSOUT=*
000320 //EQQWSDS DD DISP=MOD, DSN=&OPGVSW
000321 //EQQADDS DD DISP=MOD, DSN=&OPGVSA
000322 //EQQRDDS DD DISP=MOD, DSN=&OPGVSR
000323 //EQQLTDS DD DISP=MOD, DSN=&OPGVSL
000324 //EQQLTBKP DD DISP=MOD, DSN=&OPGVSLB
000325 //EQQCP1DS DD DISP=MOD, DSN=&OPGVSCP1
```

How to Modify Panels

If you do not want to upgrade to a new TWS/Graph version, you can download the necessary load modules from HORIZONT's homepage. After having changed your TCP/IP procedures (see "zTWS Parameters in TCP/IP Procedures" on page 28), the PC client of TWS/Graph should work without any problems.

But that If you want to use TWS/Graph's ISPF dialog, you must modify following panels: OPGPAD, OPGPCP, OPGLOOP, OPDPOPT, OPXPOPT

```

EDIT          P390A.OPG.PANELS.E(OPGPOPT) - 01.03          Columns 00001
00072
Command ==>                                          Scroll ==> CSR
***** ***** Top of Data *****
000001 )ATTR  DEFAULT(%+_)
000002   ^ TYPE (TEXT) SKIP(ON)
000003   $ TYPE (INPUT) CAPS(ON) COLOR(RED) JUST(LEFT) PAD(_)
000004 )BODY EXPAND(``)
000005 %`-` TWS/Graph OPTIONS ``-`
000006 %Command ==>_ZCMD
000007 +
000008 +top  :%RESET+defaults,%WSEX+edit exclude-list,%Jc
000009 +TWS-parameters
000010 +  Subsys.%==>$z   ^
000011 +  Release%==>$z^%8+V8R1,%9+V8R2,%B+V8R3
000012 +  AD-DSN %==>$z   ^
000013 +  MSG-Lib%==>$z   ^
000014 +PC-unload datasets
000015 +  AD      %==>$z   ^
000016 +  CP      %==>$z   ^
000017 +Workstations-exclude list
000018 +  DSN    %==>$OPUWXDS   ^+
000019 +  Exclude%==>$z^%Y+use exclude-list,%N+don't exclude any operation
000020 +Application list
  
```

Insert new release number

```

EDIT          P390A.OPG.PANELS.E(OPGPAD) - 01.06          Member OPGPAD saved
Command ==>                                          Scroll ==> CSR
000021 +  Submit          %==>$Z^  %S+submit job,%E+edit before submit
000022 )INIT
000023   &ZCMD = ' '
000024   .HELP = OPGHAD
000025   &VARS = '(OPGPCAL OPZOI OPZOVER OPZADDS OPZIDS OPGUADDS OPZJS)'
000026   .ZVARS = '&VARS'
000027   VGET &VARS PROFILE
000028 )REINIT
000029   &ZCMD = ' '
000030 )PROC
000031   VER (&ZCMD,LIST,RES,RE,RESET,JC,CAN,CANCEL)
000032   if (&ZCMD = &Z)
000033     VER (&OPZOI,NB,LIST,Y,J,N)
000034     VER (&OPZADDS,NB,DSNAME)
000035     VER (&OPZOVER,LIST,4,5,6,7,8,9,B)
000036     VER (&OPZIDS,NB,DSNAME)
000037     VER (&OPGUADDS,NB,DSNAME)
000038     VER (&OPZJS,NB,LIST,S,E)
000039     VPUT &VARS PROFILE
000040 )END
***** ***** Bottom of Data *****
. . . . .
. .
  
```

Add new release number (newer TWS/Graph versions do not have that statement anymore).