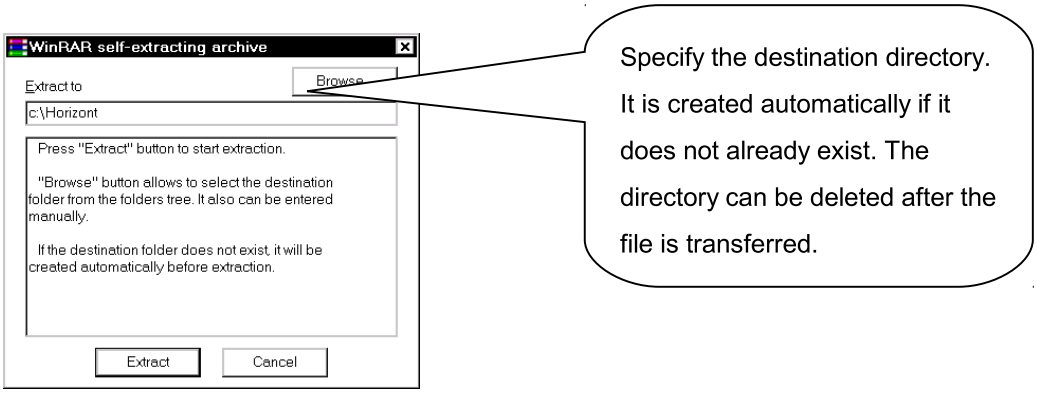
Installation

☞ Since the program makes changes to your current plan, we strictly recommend to test the program first within a test environment!

Run `\PRODUCTS\TWSBATCHAD\PROGRAM\OCBINST.EXE`. Specify a target directory. Please note that PC files are used only temporarily.



The files OCBBCNT.BIN and OCBBLOA.BIN are created in the destination directory. The files must be transmitted to the HOST by file transfer.

a) Create HOST-XMIT files

DSN	DCB
USERID.XMITCNT	RECFM=FB,LRECL=80,BLKSIZE=3120, SPACE=(TRK,15,15),DSORG=PS
USERID.XMITLOA	RECFM=FB,LRECL=80,BLKSIZE=3120, SPACE=(TRK,15,15),DSORG=PS

b) Transfer files from the PC to the Host

With a file transfer program, you must send following PC files onto the HOST. The mode must be BINARY!

File names on the PC	File names on the HOST
OCBBCNT.BIN	USERID.XMITCNT
OCBBLOA.BIN	USERID.XMITLOA

c) Generate the TWS/BatchCP program files by the TSO command RECEIVE.

```
RECEIVE INDSNAME('USERID.XMITCNT')
RECEIVE INDSNAME('USERID.XMITLOA')
```

XIMIT files	Resulting TWS/BatchCP files
USERID.XMITCNT	'USERID.TWSBATCP.VxRx.CNTL'
USERID.XMITLOA	'USERID.TWSBATCP.VxRx.LOAD'

d) Delete HOST-XMIT files

Adaptation to the System environment

We recommend to create one single procedure for all TWS/BatchCP jobs. Only control cards should be specified in the job.

File *TWSBATCP.CNTL* contains two members with sample JCL:

a) Member ***OCBJAPF***: Calling the Program directly by PGM=
Advantage: Good performance.
Disadvantage: The load module has to be copied into an APF authorised library.

b) Member ***OCBJCOM***: Calling the program via IKJEFT01.
Advantage: The load module can be started out of a non APF authorised library.
Disadvantage: Bad performance.

Member OCBJAPF

```
//...jobard...
//*********************************************************************
//* CREATE EQQYPARM
//*********************************************************************
//CREAPARM EXEC PGM=IEBGENER
//SYSIN    DD DUMMY
//SYSPRINT DD SYSOUT=*
//SYSUT1   DD *
  INIT CWBASE(00) HIGHDATE(711231)
/*
//SYSUT2   DD DISP=(NEW,PASS),DSN=&&PARM,SPACE=(TRK,(1,1)),

//         UNIT=SYSDA,DCB=(LRECL=80,BLKSIZE=8000,RECFM=FB)
//*********************************************************************
//* TWS/BATCHCP
//*********************************************************************
//CPUNL    EXEC PGM=OCBICOM6,REGION=4M,
//         PARM=('DEPTHCONDLMT(0),ERRCOUNT(0),ALL31(OFF),',
//         'STACK(,,BELOW,KEEP),',
//         '/SUBSYS=xxxx,PWD=xxxxxxxxx,parm')
//* Hint: The parameters before / are only for Language Environment.
//STEPLIB  DD DISP=SHR,DSN=HLQ.OCB.LOAD
//         DD DISP=SHR,DSN=HLQ.OPCESA.VxRxMx.SEQQLMD0
//EQQMLIB  DD DISP=SHR,DSN=HLQ.OPCESA.VxRxMx.SEQQMSG0
//EQQMLOG  DD SYSOUT=*
//EQQYPARM DD DISP=(OLD,DELETE),DSN=&&PARM
//SYSPRINT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSTSPRT DD SYSOUT=*
//PRGRCF   DD DUMMY
//JSDATA    DD DUMMY              /* JCL, only for Insert-JS necessary */
//OPGDAT   DD SYSOUT=*
//OCBOUT   DD SYSOUT=*
//SYSMDUMP DD SYSOUT=*
//PARMIN   DD *
* GENERAL PARAMETER ************************************************
* ...
* SELECTION CRITERIA ***********************************************
  ADID=TEST*
  IA=*
  OPNO=*
  JOBNAME=*
  WSNAME=*
* ACTION PARAMETER *************************************************
  RECORD=CPOC
  ACTION=LIST
* UPDATE PARAMETER *************************************************
* Now insert the new parameters. Use only the parameter you need.
* Warning: Please delete empty parameters like "JOBNAME=" or "R1USE=".
  RESNAME=A.B.C
  RESUSAGE=X
  QUANTITY=12
  ONERROR=Y
/*
```

Member OCBJCOM

```
//...jobkarte...
...
//LAUF1     EXEC PGM=IKJEFT01,REGION=6M
//STEPLIB   DD DISP=SHR,DSN=SYS1.OPCESA.VxRxMx.SEQQLMD0      OPC-LOAD-LIBRARY
//          DD DISP=SHR,DSN=PLI.LIB1                         PLI-LIBRARY 1
//          DD DISP=SHR,DSN=PLI.LIBx                         PLI-LIBRARY x
//EQQMLOG   DD SYSOUT=*
//EQQMLIB   DD DISP=SHR,DSN=SYS1.OPCESA.VxRxMx.SEQQMSG0      MESSAGE-LIB
//EQQYPARM  DD DD DISP=(OLD,DELETE),DSN=&&PARM
//SYSTSPRT  DD SYSOUT=*
//SYSPRINT  DD SYSOUT=*
//PRGRCF    DD DISP=(,PASS),DSN=&&PRGRCF,DCB=(LRECL=80),SPACE=(TRK,1)
//JSDATA    DD DUMMY                     /* JCL, only for Insert-JS necessary */
//OCBOUT    DD SYSOUT=*
//JCLOUT    DD SYSOUT=*
//SYSTSIN   DD *
 CALL 'HLQ.OCB.LOAD(OCBICOM5)' 'DEPTHCONDLMT(0),ERRCOUNT(0) +
 ALL31(OFF),STACK(,,BELOW,KEEP)/SUBSYS=xxxx,PWD=xxxxxxxxxx,parm'
/*
//* Hint: DEPTHCONDLMT(0),ERRCOUNT(0) only for Language Environment.
//*
//PARMIN    DD *
* GENERAL PARAMETER
SECURITY_FLAG=N
EXECUTE_CP=Y
* SELECTION CRITERIA
ADID=*
IA=*
OPNO=*
JOBNAME=*
WSNAME=*
GROUP=*
OWNER=*
STATUS=*
PRIORITY=*
ERRCODE=*
* ACTION PARAMETER
RECORD=CPOP
ACTION=LIST
* Now insert the new parameters. Use only the parameter you need.
* Warning: Please delete empty parameters like "JOBNAME=" or "R1USE=".
...action...
/*
//*-------------------------------------------------------------------
//* Set the returncode, if your IKJEFT01 ends everytime with rc=0
//*-------------------------------------------------------------------
//SETRC     EXEC PGM=ROTIRC,PARM='DEPTHCONDLMT(0),ERRCOUNT(0)/'
//* Hint: DEPTHCONDLMT(0),ERRCOUNT(0) only for Language Environment.
//STEPLIB   DD DISP=SHR,DSN=HLQ.HLQ.LOAD
//SYSPRINT  DD SYSOUT=*
//SYSOUT    DD SYSOUT=*
//PRGRCF    DD DISP=(SHR,DELETE),DSN=&&PRGRCF
```

☞ With this job the program is executed by TSO.

Adapt job card

Please adapt your job card.

Adapt or delete /*XEQ-Card

Because the program uses the TWS PIF, it has to run on the same system like the TWS controller. If the job should run on another system, you have to specify the node id here. With TME10 OPC V2R1 you may run the PIF program against a dedicated PIF server. See further details in the TWS installation manual.

Adjust or delete STEPLIB

TWS Load Library SEQQLMD0

The program is calling the TWS PIF module EQQYCOM (TWS Program Interface). If the library with that module is not concatenated in your LINKLIST, you have to specify the STEPLIB.

☞ The STEPLIB is mandatory if you are working with different TWS versions

Runtime libraries

The program needs the Language Environment (LE). The STEPLIB is mandatory if these libraries are not concatenated in your LINKLIST.

SYSPRINT

The program writes its messages to DD SYSPRINT.

EQQMLOG

Error messages and warnings of TWS are written into EQQMLOG.

Adapt EQQMLIB

Enter the dataset name of your TWS message library here.

Adjust EQQYPARM

☞ Specify the date format for the communication between program and TWS.

TWS/BatchCP needs following statement:
INIT CWBASE(00) HIGHDATE(711231)

☞ The program has to run on the same system as the TWS controller or a TWS PIF server (see TWS literature for more information).

TWS-Subsystem in EQQYPARM

You specify the parameter SUBSYS here. See OPC_SUBSYSTEMNAME on page 31 for more information.

☞ We recommend to specify the TWS subsystem within the EQQYPARM statement.

Adjust names of TWS/BatchCP load modules

Specify the file name of the OCB Library. Default:
HLQ*.TWSBATCP.VxRx.LOAD*.

Adjust Licence Key

See chapter Licence key on page 18 for more information.

Select the TWS/BatchCP Load module for your TWS version

Specify the name of the load module for your TWS version.

TWS-Version	Load modul name
TWS z/OS V8R3	OCBICOMB
TWS z/OS V8R5	OCBICOMC
TWS z/OS V8R5.1	OCBICOMD
TWS z/OS V8R6	OCBICOME

Language Environment Runtime parameter

If you are using the Language Environment (LE), following language environment parameters are mandatory:

- *ALL31(OFF)*
- *DEPTHCONDLMT(0)*
- *ERRCOUNT(0)*

- *STACK(,,BELOW,KEEP)*

☞ These Language environment parameters was set internal as default. Therefore do not override these language environment parameters in JCL or in system environment with other values.

☞ The parameters must not be used if you are not using the LE.

☞ The parameters have to be specified before the '/', for example PARM='ALL31/SUBSYS=OPC4'.

Program parameter

You can specify following program parameters:

Program parameter	Description
AD=	like selection parameter ADID=
IA=	like selection parameter IA=
JN=	like selection parameter JOBNAME=
ON=	like selection parameter OPNO=
PWD=	like general parameter PASSWORD=
SYS= or SUBSYS=	like general parameter OPC_SUBSYSTEMNAME=
CUST=NFRC4	like general parameter SETRC4_IF_NOTFOUND=Y

TWS-Subsystem

See OPC_SUBSYSTEMNAME on page 31.

TWS-PIF interface EQQYCOM

The program requires the TWS-PIF interface EQQYCOM. If this module is not concatenated in the LINKLIST, you must insert a STEPLIB or JOBLIB statement.

TWS-PIF function SELECT with JCLPREPA

We are using PIF request SELECT with resource code JCLPREPA to emulate TWS variable substitution. Please take care if you use variable substitution exit to modify other data than TWS variables. For more information see the TWS z/OS documentation.
Variable simulation is used with parameter SIMRANGE, SIMTIME and SIMTYPE. More see at page 40 and following pages.

DD PRGRCF

PRGRCF writes the return code generated by TWS/BatchCP into a file, that file is input to ROTIRC which finally generates the return code. The reason for this is the IKJEFT01, which is always generating RC=0.

DD JSDATA

The file is used to insert JCL into TWS JCL files JS1 and JS2.

RECFM=FB, LRECL=80, DSORG=PS.

DD PARMIN

Used for control cards, see previous chapters.

Program ROTIRC

ROTIRC sets the return code for the job. The reason is IKJEFT01, which overwrites the return code of TWS/BatchCP. Specify at STEPLIB the name of the TWS/BatchCP load library. Default is HLQ.TWSBATCP.LOAD.

DD name OCBOUT

Precondition for to write listings into OCBOUT is the definition of following control statements: ACTION=LIST and OUTPUT_IN_OCBOUT=Y.

LRECL=500, RECFM=FB.

The header file can be suppressed by specifying HEADER_IN_OCBOUT=N.

For a description of all columns see page 167.