

Installation for BS2000/OSD

We recommend reading this section from beginning to end before starting the installation process.

This section covers the following topics:

- Installation Tape
 - Storage Requirements
 - Installation Tape under BS2000/OSD
 - Installation Procedure
-

Installation Tape

The installation tape contains the datasets listed in the table below. The sequence of the datasets is shown in the **Report of Tape Creation** which accompanies the installation tape.

The notation *nnn* in dataset names represents the version number of the product.

Dataset Name	Contents
NPR <i>nnn</i> .JOBS	Entire System Server Installation Jobs.
NPR <i>nnn</i> .PAMS	Entire System Server Load Library.
NPR <i>nnn</i> .SRCE	Entire System Server Source Library
NPR <i>nnn</i> .INPL	Entire System Server DDM's and tutorial.
NPR <i>nnn</i> .ERRN	Entire System Server Error Messages
NPR <i>nnn</i> .DATA	Predict data for the Entire System Server.

Storage Requirements

File Name	Type	Disk PAM Pages
NPR <i>nnn</i> .JOBS	PAM	84
NPR <i>nnn</i> .MOD	PAM	864
NPR <i>nnn</i> .SRC	PAM	48
NPR <i>nnn</i> .INPL	SAM	2064
NPR <i>nnn</i> .ERRN	SAM	192
NPR <i>nnn</i> .DATA	SAM	2112

Installation Tape under BS2000/OSD

Copying the Tape Contents to Disk

If you are not using SMA, use the procedure described below. In this procedure, the values specified below must be supplied.

To copy the datasets from tape to disk, perform the following steps:

1. Copy the Library SRVnnn.LIB from Tape to Disk

This step is not necessary if you have already copied the library SRVnnn.LIB from another Software AG tape. For more information, refer to the element #READ-ME in this library.

The library SRVnnn.LIB is stored on the tape as the sequential file SRVnnn.LIBS containing LMS commands. The current version *nnn* can be obtained from the **Report of Tape Creation**. To convert this sequential file into an LMS-library, execute the following commands:

```
/IMPORT-FILE SUPPORT=*TAPE(FILE-NAME=SRVnnn.LIBS, -
/   VOLUME=<volser>, DEV-TYPE=<tape-device>)
/ADD-FILE-LINK LINK-NAME=EDTSAM, FILE-NAME=SRVnnn.LIBS, -
/   SUPPORT=*TAPE(FILE-SEQ=3), ACC-METH=*BY-CAT, -
/   BUF-LEN=*BY-CAT, REC-FORM=*BY-CAT, REC-SIZE=*BY-CAT
/START-EDT
@READ  '/'
@SYSTEM 'REMOVE-FILE-LINK EDTSAM'
@SYSTEM 'EXPORT-FILE FILE-NAME=SRVnnn.LIBS'
@WRITE  'SRVnnn.LIBS'
@HALT
/ASS-SYSDTA  SRVnnn.LIBS
/MOD-JOB-SW  ON=1
/START-PROG  $LMS
/MOD-JOB-SW  OFF=1
/ASS-SYSDTA  *PRIMARY
```

Where:

<*tape-device*> is the device-type of the tape, e.g. TAPE-C4

<*volser*> is the VOLSER of the tape (see **Report of Tape Creation**)

2. Copy the Procedure COPY.PROC from Tape to Disk

To copy the procedure COPY.PROC to disk, call the procedure P.COPYTAPE in the library SRVnnn.LIB:

```
/CALL-PROCEDURE  (SRVnnn.LIB,P.COPYTAPE), -
/   (VSNT=<volser>, DEVT=<tape-device>)
```

If you use a TAPE-C4 device, you may omit the parameter DEVT.

3. Copy all Product Files from Tape to Disk

To copy all Software AG product files from tape to disk, enter the procedure COPY.PROC:

```
/ENTER-PROCEDURE  COPY.PROC, DEVT=<tape-device>
```

If you use a TAPE-C4 device, you may omit the parameter DEVT. The result of this procedure is written to the file 'L.REPORT.SRV'.

Installation Procedure

Step 1: Scratch libraries SYSNPE and SYSNPR

(Job I051, Step 1100)

If you are upgrading from a previous version of the Entire System Server, scratch libraries SYSNPE and SYSNPR from your existing installation. Otherwise, skip this step.

Step 2: Load the INPL File and the ERRN File

(Job I061, Steps 1100 and 1102)

1. Use the Natural system command INPL (which is described in the Natural System Command Reference documentation) in order to load the Entire System Server system objects (dataset NPRnnn.INPL).

This loads the following libraries:

Library	File	Contents
SYSNPR	FNAT	Installation aid (define DBIDs and define views to Natural Security)
SYSNPE	FNAT	Online tutorial
SYSNPEH1	FNAT	Help texts (English)
SYSNPEH2	FNAT	Help texts (German)

2. Load the Entire System Server error messages file (the dataset NPRnnn.ERRN) using the ERRLODUS utility. The ERRLODUS utility is described in the Natural Utilities documentation.

Step 3: Change the NATPARM Module

Add the ASIZE parameter and the following macro to the NATPARM module; then assemble and link it. For information on how to activate this NATPARM module for your Natural environment, refer to the Natural Installation Documentation for Mainframes.

```
ASIZE=48
NTDB PROCESS,148
```

ASIZE specifies the size of the auxiliary buffer. The minimum value is 36K and the maximum value is 64K. A value of at least 48 is recommended.

148 is the database ID with which the Entire System Server DDMs are cataloged. This does not affect the use of additional Entire System Server nodes with different node IDs, since these can be addressed via the NODE field in each Entire System Server view. See also the subsection Multiple Entire System Server Node Support in the Section Using the Entire System Server of the Entire System Server Administration Documentation.

Note:

If you are upgrading from a previous version of Entire System Server, use the startup parameter NODE to assign different node IDs to different versions of Entire System Server running on the same system. You may, for instance, have an Entire System Server Version 3.1.2 running in production using node ID 148, and specify NODE=168 in the startup parameter for Version 3.2.1 during installation and test.

Ensure the Natural session parameter LE is set to OFF, otherwise you may experience problems with the Online Tutorial.

Step 4: Change Defaults

1. Module NATPNIP:

- To change defaults in the parameter module NATPNIP, edit the source member NATPNIP (in the Natural source library).

Assemble it as described in Section Installing the Entire System Server Interface in the Natural Installation Guide for Mainframes.

NATPNIP contains the following parameters and defaults:

Parameter	Explanation
BUFLEN=8192	Length of all Adabas buffers.
NUMREQ=5	Number of parallel requests.
MAXCBL=3000	Complex FIND buffer length.
MAXEDL=3000	Editor session buffer length.
EXTUSER=USER	When running under UTM, value USER should be used to ship Natural's *USER to Entire System Server. When running under BATCH or TIAM, value ADDRESS-SPACE should be fetched to ship the User ID of the task to Entire System Server.

- Assemble this module as described in the section Installing the Entire System Server Interface in the Natural Installation Guide for Mainframes.
- The Entire System Server Interface (ESX) has been an integrated part of Natural since Version 2.3.4. All ESX modules will be automatically linked to the front-end part of Natural in Version NAT 2.3.4 and above. For further information, see [Installing the Entire System Server Interface in the Natural Installation Guide for Mainframes](#).

Step 5: Load the DATA File

(Job I200, Step 1100)

All Entire System Server views have been documented in Software AG's repository Predict. The **NPRnnn.DATA** dataset on the installation tape contains these Predict view descriptions that can be loaded with the **MIGRATE / COORDINATOR** utility in Predict (Job I200, Step 1100). This is optional and applies to Predict Version 3.2 or above.

The **MIGRATE / COORDINATOR** utility is described in the Predict Reference documentation.

If, however, you have already loaded these descriptions from earlier versions of the Entire System Server (or Natural Process), you must also logon to Predict's online system to check the database name of DBID 148, to which the views are linked.

Its name must be ENTIRE-SYSTEM-SERVER. If it is not, change the database name before running Job I200, Step 1100 to load the dataset NPRnnn.DATA.

Note:

For Predict 3.2 and above: you can also ignore the message "Attribute OPSYS lost".

Step 6: Natural Security Considerations

If Natural Security is installed, define libraries SYSNPE, SYSNPR, SYSNPEH1 and SYSNPEH2 to Natural Security. If these applications are to be people-protected, link those user IDs to them that require authorization. Define libraries without "XREF = YES" to load all objects.

- SYSNPE contains the online tutorial;
- the installation aid in library SYSNPR can be used to apply initial security definitions for the Entire System Server views.

Step 7: Customize Startup Parameters

1. Copy member NPRPARMS from the library NPRnnn.SRCE to a SAM or ISAM file.
2. Edit this parameter file to set the correct startup parameters according to the requirements of your site.

For a description of the parameters and an example, see the section Startup Parameters of the Entire System Server Administration Documentation.

Step 8: Edit the Entire System Server Jobs

1. Adjust job control for the Entire System Server MAIN Task.

Edit the example Element E.ESYMAIN and adjust the library and file names used in it.

```

/.XCOM199          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS   TO-LABEL=START

*-----*
* Run Entire System Server MAIN Task. *
*-----*

/.START           REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                   OPERATOR-INTERACTION=*YES, -
/                   LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSLST    TO=$SAG.LST.ESYMAIN.199.&($SYSJV.TSN)
/ ASSIGN-SYSLST    TO=$SAG.LST.ESYMAIN.199.&($SYSJV.TSN).ZAPS, -
/                   SYSLST-NUMBER=1
/ SHOW-JOB-STATUS  JOB-IDENTIFICATION=*OWN

/ CREATE-FILE      FILE-NAME=$SAG.NPRnnn.CLOG.199, -
/                   SUPPORT=*PUBLIC-DISK -
/                   ( SPACE=*RELATIVE -
/                     ( PRIMARY-ALLOCATION = 12, -
/                       SECONDARY-ALLOCATION = 12 ) )
/ SET-JOB-STEP
/ CREATE-FILE      FILE-NAME=$SAG.NPRnnn.TRAC.199, -
/                   SUPPORT=*PUBLIC-DISK -
/                   ( SPACE=*RELATIVE -
/                     ( PRIMARY-ALLOCATION = 12, -
/                       SECONDARY-ALLOCATION = 12 ) )
/ SET-JOB-STEP
/ ADD-FILE-LINK    LINK-NAME=PARMS ,FILE-NAME=$SAG.NPRnnn.PARM.199
/ ADD-FILE-LINK    LINK-NAME=CLOG  ,FILE-NAME=$SAG.NPRnnn.CLOG.199
/ ADD-FILE-LINK    LINK-NAME=TRACE ,FILE-NAME=$SAG.NPRnnn.TRAC.199
/ ADD-FILE-LINK    LINK-NAME=DDLIB  ,FILE-NAME=$SAG.ADAnnn.MOD
/ ADD-FILE-LINK    LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK    LINK-NAME=BLSLIB00,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM   FROM-FILE=*MODULE -
/                   ( LIBRARY=$SAG.NPRnnn.MOD, -
/                     ELEMENT=ESYMAIN, -
/                     PROGRAM-MODE=*ANY, -
/                     RUN-MODE=*ADVANCED ), -
/                   MONJV=#ESYMAIN.&($SYSJV.TSN)

/ SET-JOB-STEP
/ SHOW-JOB-STATUS  JOB-IDENTIFICATION=*OWN
/ SKIP-COMMANDS   TO-LABEL=OKAY, -
/                   IF=JV(COND=(#ESYMAIN.&($SYSJV.TSN),1,2) EQ '$T')
/                   TEXT='***** ESYMAIN failed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP

/.OKAY             REMARK
/ WRITE-TEXT       TEXT='***** ESYMAIN successfully executed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP

/.STOP              REMARK
/ EXIT-JOB         MODE=*NORMAL, SYSTEM-OUTPUT=*NONE

```

This job is used to start the Entire System Server. The file referenced by the link name PARMS contains the Entire System Server startup parameters. For a description of startup parameters, see the section Startup Parameters of the Entire System Server Administration Documentation.

The ADD-FILE-LINK statement to assign link name CLOG is only needed if the logging facility of Entire System Server is activated by setting the appropriate parameter LOGGING=YES in the startup parameter file or dynamically via operator command interface:

```
/INTR <tsn>, LOGGING=YES
```

where <tsn> is the TSN assigned to the MAIN task.

The file assigned by link name TRACE is needed to save the TRACE data buffer at exit of the ESY MAIN Task. The assignment is not required if startup parameter TRACE-SAV=NO was specified.

The library concept of Entire System Server is described in detail in the section Library Concept on BS2000/OSD for Entire System Server in the Section BS2000/OSD Considerations of the Entire System Server Administration Documentation.

More information about running ESY on BS2000/OSD is available in the section Details for Running Entire System Server on BS2000/OSD in BS2000/OSD Considerations of the Entire System Server Administration Documentation.

2. Adjust job control for the Entire System Server SERVER Task.

Edit the example element E.ESYSERV and adjust the library and file names used in it.

```

/.XSRV199           SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START
*-----*
* Run Entire System Server SERVER Task.
*
*-----*
* Filename / LMS-element-name of this job must be specified in
* startup parameters. It will be started automatically at startup
* of Entire System Server by MAIN Task.
* If Dynamic Server Management is enabled, SERVER Tasks will be
* started dynamically during runtime to handle increasing work
* load.
*-----*
/.START             REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                         OPERATOR-INTERACTION=*YES, -
/                         LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSLST      TO=$SAG.LST.ESYSERV.199.&($SYSJV.TSN)
/ ASSIGN-SYSLST      TO=$SAG.LST.ESYSERV.199.&($SYSJV.TSN).ZAPS, -
/                         SYSLST-NUMBER=1
/ SHOW-JOB-STATUS    JOB-IDENTIFICATION=*OWN
/ ADD-FILE-LINK     LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK     LINK-NAME=BLSLIB00,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM     FROM-FILE=*MODULE -
/                         ( LIBRARY=$SAG.NPRnnn.MOD, -
/                           ELEMENT=ESYSERV, -
/                           PROGRAM-MODE=*ANY, -
/                           RUN-MODE=*ADVANCED ), -
/                         MONJV=#ESYSERV.&($SYSJV.TSN)
/ SET-JOB-STEP       JOB-IDENTIFICATION=*OWN
/ SHOW-JOB-STATUS    TO-LABEL=OKAY, -
/ SKIP-COMMANDS     IF=JV(COND=(#ESYSERV.&($SYSJV.TSN),1,2) EQ '$T')
/ WRITE-TEXT         TEXT='***** ESYSERV failed *****'
/ SKIP-COMMANDS     TO-LABEL=STOP
/ .OKAY              REMARK
/ WRITE-TEXT         TEXT='***** ESYSERV successfully executed *****'
/ SKIP-COMMANDS     TO-LABEL=STOP
/ .STOP              REMARK
/ EXIT-JOB           MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job is used to start the Entire System Server SERVER Tasks. They will be started automatically by the ESY MAIN Task. The location of this job (file or LMS element) and the number of server tasks to be started are specified in startup parameters JOBSERVER and NUMTASK. For a description, see the section Startup Parameters of the Entire System Server Administration Documentation.

It is also possible to run a Dynamic Server Management with ESY. For detailed information, see the section [Dynamic Server Management for Entire System Server](#) in the [Section Common Entire System Server Features](#) of the [Entire System Server Administration Documentation](#).

3. Adjust job control for the Entire System Server Eventing Manager Task.

Edit the example element E.ESYEVTM and adjust the library and file names used in it.

```

/.XEVE199          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START
*-----*
* Run Entire System Server Eventing Manager Task.      *
*                                                       *
* Filename / LMS-element-name of this job must be specified in   *
* startup parameters. It will be started automatically at startup   *
* of Entire System Server by MAIN Task.                   *
*-----*
/.START           REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                         OPERATOR-INTERACTION=*YES, -
/                         LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSLST    TO=$SAG.LST.ESYEVTM.199.&($SYSJV.TSN)
/ ASSIGN-SYSLST    TO=$SAG.LST.ESYEVTM.199.&($SYSJV.TSN).ZAPS, -
/                         SYSLST-NUMBER=1
/ SHOW-JOB-STATUS  JOB-IDENTIFICATION=*OWN
/ ADD-FILE-LINK   LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK   LINK-NAME=BLSLIB00,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM   FROM-FILE=*MODULE -
( LIBRARY=$SAG.NPRnnn.MOD, -
ELEMENT=ESYEVTM, -
PROGRAM-MODE=*ANY, -
RUN-MODE=*ADVANCED ), -
MONJV=#ESYEVTM.&($SYSJV.TSN)
/ SET-JOB-STEP    JOB-IDENTIFICATION=*OWN
/ SHOW-JOB-STATUS  TO-LABEL=OKAY, -
/ SKIP-COMMANDS   IF=JV(COND=(#ESYEVTM.&($SYSJV.TSN),1,2) EQ '$T')
/ WRITE-TEXT      TEXT='***** ESYEVTM failed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP
/.OKAY           REMARK
/ WRITE-TEXT      TEXT='***** ESYEVTM successfully executed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP
/.STOP            REMARK
/ EXIT-JOB        MODE=*NORMAL, SYSTEM-OUTPUT=*NONE

```

This job is used to start the Entire System Server Eventing Manager Task. It will be started automatically by the MAIN Task at Entire System Server startup if startup parameter EVENTLEN is not 0. The location of this job (file or LMS element) is specified in the startup parameter JOBEVENT. For a description of startup parameters, see the section Startup Parameters of the Entire System Server Administration Documentation.

4. Adjust job control for the Entire System Server CONSOLE Task.

Edit the example element E.ESYCONS and adjust the library and file names used in it. With parameter APPL-NAME of the SET-DCAM-APPL-LINK statement in the example job, the name of the DCAM application which will connect to UCON (application \$CONSOLE) is defined. This name must be specified in the BCAM command BCLOSE to end the UCON interface task.

```

/.XCON199          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS   TO-LABEL=START
*-----*
* Run Entire System Server CONSOLE Task.          *
*
* Filename / LMS-element-name of this job must be specified in      *
* startup parameters. It will be started automatically at startup      *
* of Entire System Server by MAIN Task if not running yet.          *
*
* This service task can be shared by all Entire System Server        *
* nodes with version ESY 3.1.1 and above running on the same        *
* BS2000/OSD.            *
*-----*
/.START           REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                   OPERATOR-INTERACTION=*YES, -
/                   LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSDTA    TO=*SYSCMD
/ ASSIGN-SYSLST    TO=$SAG.LST.ESYCONS.199.&($SYSJV.TSN)
/ SHOW-JOB-STATUS  JOB-IDENTIFICATION=*OWN
/ SET-DCAM-APPL-LINK LINK-NAME=ESYCONAP,           "must not be changed" -
/                   APPLICATION-NAME=ESYCONS2 "may be changed"
/ START-PROGRAM   FROM-FILE=*MODULE -
/                   ( LIBRARY=$SAG.NPRnnn.MOD, -
/                   ELEMENT=ESYCONS, -
/                   PROGRAM-MODE=*ANY, -
/                   RUN-MODE=*ADVANCED ), -
/                   MONJV=#ESYCONS.&($SYSJV.TSN)
CON6,C'CON6'
1009
/ SET-JOB-STEP
/ SHOW-JOB-STATUS  JOB-IDENTIFICATION=*OWN
/ SKIP-COMMANDS   TO-LABEL=OKAY, -
/                   IF=JV(COND=(#ESYCONS.&($SYSJV.TSN),1,2) EQ '$T')
/                   TEXT='***** ESYCONS failed *****'
/ WRITE-TEXT       TO-LABEL=STOP
/ SKIP-COMMANDS   REMARK
/ .OKAY           TEXT='***** ESYCONS successfully executed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP
/ .STOP           REMARK
/ EXIT-JOB        MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job is used to start the UCON interface task (CONSOLE Task) of Entire System Server. It will be started automatically by the MAIN Task at Entire System Server startup, if it is not yet active in the system and if startup parameter CONACCESS is not NONE. The location of this job (file or LMS element) is specified in the startup parameter JOBCONS. For a description of startup parameters, see the section Startup Parameters of the Entire System Server Administration Documentation.

The parameters of program ESYCONS must be specified in the following order:

- Authorization for connection to UCON (connection message)
- Size of table for collecting console messages in number of messages.

It is recommended that you use one of the following values as number of messages in order to optimize memory usage: 132 (64K), 424 (128K), 717 (192K), 1009 (256K).

The value range for number of messages is defined as follows:

minimum	92
maximum	65535

5. Adjust job control for the Entire System Server Shutdown Program.

Edit the example element E.ESYSTOP and adjust the library and file names used in it.

```

/.ESYSTOP          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS   TO-LABEL=START
*-----*
* Execute ESYSTOP to shutdown Entire System Server. *
*-----*
/.START REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                         OPERATOR-INTERACTION=*YES, -
/                         LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSDTA      TO=*SYSCMD
/ ASSIGN-SYSLST      TO=$SAG.LST.ESYSTOP.199.&($SYSJV.TSN)
/ SHOW-JOB-STATUS    JOB-IDENTIFICATION=*OWN
/ ADD-FILE-LINK     LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK     LINK-NAME=BLSLIB00 ,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM     FROM-FILE=*MODULE -
/                   ( LIBRARY=$SAG.NPRnnn.MOD, -
/                     ELEMENT=ESYSTOP, -
/                     PROGRAM-MODE=*ANY, -
/                     RUN-MODE=*ADVANCED ), -
/                   MONJV=#ESYSTOP.&($SYSJV.TSN)

--JNAME XCOM199
/ SET-JOB-STEP
/ SHOW-JOB-STATUS  JOB-IDENTIFICATION=*OWN
/ SKIP-COMMANDS   TO-LABEL=OKAY, -
/                   IF=JV(COND=(#ESYSTOP.&($SYSJV.TSN),1,2) EQ '$T')
/                   TEXT='***** ESYSTOP failed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP
/.OKAY
/ WRITE-TEXT       REMARK
/ WRITE-TEXT       TEXT='***** ESYSTOP successfully executed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP
/.STOP
/ REMARK
/ EXIT-JOB        MODE=*NORMAL, SYSTEM-OUTPUT=*NONE

```

This job should be used to shutdown the Entire System Server.

See the subsection Shutdown of Entire System Server on BS2000/OSD in the Section BS2000/OSD Considerations of the Entire System Server Administration Documentation for more details.

6. Adjust job control for the Entire System Server Trace Program.

Edit the example element E.ESYTRACE and adjust the library and file names used in it.

```

/.ESYTRACE          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START
*-----*
* Execute ESYTRACE to run Entire System Server TRACE analyzer. *
*-----*
/.START             REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                               OPERATOR-INTERACTION=*YES, -
/                               LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSDTA      TO=*SYSCMD
/ ASSIGN-SYSLST      TO=$SAG.LST.ESYTRACE.199.&($SYSJV.TSN)
/ SHOW-JOB-STATUS    JOB-IDENTIFICATION=*OWN
/ CREATE-FILE        FILE-NAME=$SAG.NPRnnn.TROU.199, -
/                               SUPPORT=*PUBLIC-DISK -
/                               ( SPACE=*RELATIVE -
/                                 ( PRIMARY-ALLOCATION = 12, -
/                                   SECONDARY-ALLOCATION = 12 ) )
/ SET-JOB-STEP
/ ADD-FILE-LINK     LINK-NAME=TRIN      ,FILE-NAME=$SAG.NPRnnn.TRAC.199
/ ADD-FILE-LINK     LINK-NAME=TROUT     ,FILE-NAME=$SAG.NPRnnn.TROU.199
/ ADD-FILE-LINK     LINK-NAME=DDLIB2    ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK     LINK-NAME=BLSLIB00 ,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM    FROM-FILE=*MODULE -
/                               ( LIBRARY=$SAG.NPRnnn.MOD, -
/                                 ELEMENT=ESYTRACE, -
/                                 PROGRAM-MODE=*ANY, -
/                                 RUN-MODE=*ADVANCED ), -
/                               MONJV=#ESYTRACE.&($SYSJV.TSN)
199 --POLL
/ SET-JOB-STEP
/ SHOW-JOB-STATUS    JOB-IDENTIFICATION=*OWN
/ SKIP-COMMANDS     TO-LABEL=OKAY, -
/                               IF=JV(COND=(#ESYTRACE.&($SYSJV.TSN),1,2) EQ '$T')
/                               TEXT='***** ESYTRACE failed *****'
/ SKIP-COMMANDS     TO-LABEL=STOP
/.OKAY              REMARK
/ WRITE-TEXT         TEXT='***** ESYTRACE successfully executed *****'
/ SKIP-COMMANDS     TO-LABEL=STOP
/.STOP              REMARK
/ EXIT-JOB           MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job is used to run program ESYTRACE. It analyzes the TRACE data of Entire System Server if startup parameter "TRACE = YES" is defined. In order to start ESYTRACE in Monitor mode, parameter line "199 --POLL" is specified. The assignment of LINK-NAME TRIN is not needed here, because all data are read from memory pool only. The analyzed and edited TRACE data will be written to the file assigned by LINK-NAME TROUT.

This task must be stopped explicitly with operator command QUIT due to argument "--POLL".

For more information, see section Creating Trace Data in the Entire System Server in the Section Common Entire System Server Features of the Entire System Server Administration Documentation.

7. Adjust job control for the Entire System Server E-Mail Manager Task

There are job control examples to run the Entire System Server E-Mail Manager Task based on IP version 4 or IP version 6. Please contact your network administrator to determine which IP version is used. The job control for the Entire System Server E-Mail Manager Task based on IP version 4 is available in the sample element E.ESYMAIL4, the job control for the Entire System Server E-Mail Manager Task based on IP version 6 is available in the sample element E.ESYMAIL6. This allows to define the required IP version in the Entire System Server startup parameter file by specifying E.ESYMAIL4 or E.ESYMAIL6 as value for parameter JOBE MAIL.

Edit the example Element E.ESYMAIL4 or E.ESYMAIL6 and adjust the library and file names used in it. Element E.ESYMAIL6 is listed below.

```

/.XEML199          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START

*-----*
* Run Entire System Server E-Mail Manager Task. *
*
* Filename / LMS-element-name of this job must be specified in *
* startup parameters. It will be started automatically at startup *
* of Entire System Server by MAIN Task. *
*-----*

/.START            REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                   OPERATOR-INTERACTION=*YES, -
/                   LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSLST     TO=$SAG.LST.ESYMAIL6.199.&($SYSJV.TSN)
/ ASSIGN-SYSLST     TO=$SAG.LST.ESYMAIL6.199.&($SYSJV.TSN).ZAPS, -
/                   SYSLST-NUMBER=1
/ SHOW-JOB-STATUS   JOB-IDENTIFICATION=*OWN
/ ADD-FILE-LINK    LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK    LINK-NAME=BLSLIB00,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM    FROM-FILE=*MODULE -
( LIBRARY=$SAG.NPRnnn.MOD, -
ELEMENT=ESYMAIL6, -
PROGRAM-MODE=*ANY, -
RUN-MODE=*ADVANCED ), -
MONJV=#ESYMAIL6.&($SYSJV.TSN)

/ SET-JOB-STEP      JOB-IDENTIFICATION=*OWN
/ SHOW-JOB-STATUS   TO-LABEL=OKAY, -
/                   IF=JV(COND=(#ESYMAIL6.&($SYSJV.TSN),1,2) EQ '$T')
/                   TEXT='***** ESYMAIL6 failed *****'
/ SKIP-COMMANDS    TO-LABEL=STOP

/.OKAY              REMARK
/ WRITE-TEXT        TEXT='***** ESYMAIL6 successfully executed *****'
/ SKIP-COMMANDS    TO-LABEL=STOP

/.STOP              REMARK
/ EXIT-JOB          MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job is used to start the Entire System Server E-Mail Manager Task based on IP version 6. It will be started automatically by the MAIN Task at Entire System Server startup if startup parameter NUMMAIL is not 0. The location of this job (file or LMS element) is specified in the startup parameter JOBEMAIL. For a description of startup parameters, see the Section Startup Parameters of the Entire System Server Administration Documentation.

For more information about E-Mail administration, see the subsection Run E-Mail Client in Common Entire System Server Features in the Entire System Server Administration Documentation.

Step 9: E-Mail Client Requirements

SEND-EMAIL view requires the Entire System Server E-Mail Manager Task active to work properly. See Subsection Adjust job control for the Entire System Server E-Mail Manager Task in Section Step 8: Edit the Entire System Server Jobs for necessary changes of the job control.

For more information about E-Mail administration, see the subsection Run E-Mail Client in Common Entire System Server Features in the Entire System Server Administration Documentation.