

# Installation on VSE/ESA

This document describes procedures for installing SMARTS under VSE/ESA.

Software AG recommends that you keep unmodified copies of all materials distributed or created as part of the installation process. This may assist with problem diagnosis later.

This document covers the following topics:

- The Installation Tape
- Installing the SMARTS Server Environment
- Where Next ?

## The Installation Tape

The installation tape is described under the following headings:

- Tape Contents
- Copying Contents of the Tape to Disk

### Tape Contents

The installation tape contains the following files:

Dataset	Contains . . .	
APSVrs.LIBR	Library Sublibrary	SAGLIB APSVrs SMARTS components: phases, objects, JCL, sample source members, and macros.

### Sample JCL and Source Members

The following table lists the sample source and job members in the APSvrs sublibrary. These must be modified before being used:

Member	Contains ..
APSSIP.J	Sample job to initialize the SMARTS system adapter.
PXANCONF.P	The POSIX server configuration parameters.
PXANHOST.P	Sample parameter file to customize the TCP/IP host name and host address table.
RJANPARM.P	Sample server environment parameters.
RJBNINS1.J	Sample job to restore the SMARTS libraries.
RJBNINS2.J	Sample job to allocate the SMARTS VSAM Dump file.
RJBNINS3.J	Sample job to allocate and restore the MSHP History file.
RJBNINS4.J	Sample job to allocate the SMARTS VSAM Trace file.
RJBNPROC.J	Sample procedure to run the SMARTS Server Environment.

## Copying Contents of the Tape to Disk

### Step 1: Restore the SMARTS library

- Use the following JCL, supplied in the APSvrs sublibrary as member RJBNINS1.J, to restore the SMARTS library:

```

* $$ JOB JNM=APSREST,CLASS=c,DISP=d,LDEST=(,uid)
* $$ LST CLASS=c,DISP=d
// JOB APSREST --- Restore APS Library ---
/*
/* ===== *
/* Restore APS Library *
/* ===== *
/*
// PAUSE
// ASSGN SYS006,cuu
/*
// DLBL SAGLIB,'saglib.library',0,SD
// EXTENT ,vvvvvv,1,0,ssss,ttt
/*
// MTC REW,SYS006
// MTC FSF,SYS006,nn
/*
// EXEC LIBR
RESTOR SUB=SAGLIB.APSvrs : SAGLIB.APSvrs -
R=Y TAPE=SYS006
/*
/&
$$ EOJ

```

## Installing the SMARTS Server Environment

### Step 1: Installing the SMARTS Server Environment

- Use the sample JCL member APSSIP.J in the APSvrs sublibrary to initialize the SMARTS system adapter. Customize the various parameters to suit your needs.

You must execute this JCL before you execute the SMARTS server to avoid initialization errors.

Software AG recommends that you add this JCL to the \$ASIPROC so that the SMARTS system adapter is initialized automatically at IPL time.

### Step 2: Allocate the SMARTS VSAM Dump file

- Use the sample JCL member RJBININS2.J in the APSvrs sublibrary to allocate and restore the SMARTS VSAM Dump file. Customize the various parameters to suit your needs.

The file allocated in this step will be assigned in the SMARTS server start-up JCL.

### Step 3: Allocate the SMARTS Trace file

- Allocate either an SD or VSAM/ESDS file for the SMARTS trace file. The APSvrs sublibrary contains a sample JCL to allocate the SMARTS Trace file as a VSAM/ESDS file (member RJBININS4.J. Customize the various parameters to suit your needs.

The file allocated in this step will be assigned in the SMARTS server start-up JCL.

### Step 4: Allocate the SMARTS History file

- Use the sample member RJBININS3.J in the APSvrs sublibrary to allocate and restore the MSHP History file. Customize the various parameters to suit your needs.

This file will be required when applying maintenance to SMARTS.

### Step 5: Customize the SMARTS TCP/IP host name and address table

1. Because the current TCP/IP stack on VSE/ESA does not support host name/host address lookup (DNS), SMARTS uses a local address table that mimics the DNS functionality.

Use the sample host name parameter member PXANHOST.P in the APSvrs sublibrary and customize to suit your needs. When customizing the local table, define:

- any host names and addresses that will be accessed from within the SMARTS server partition and
- the host where the local SMARTS server is executing.

For example, for a local host with name LOCAL and IP address 127.0.0.1 and a remote host with name REMOTE and IP address 157.189.160.95:

```
127.0.0.1      LOCAL  AF_INET
157.189.160.95 REMOTE AF_INET
```

2. Verify and if necessary add or modify the following parameter in the members RJBNPROC.J and PXANCONF.P to point to the PXANHOST.P member:

```
HOSTS_FILE=/SAGLIB/APSvrs/PXANHOST.P
```

## Step 6: Edit the SMARTS Server start-up JCL

- Modify the sample SMARTS server start-up JCL member RJBENPROC.J in the APSvrs sublibrary to suit your installation naming conventions.

The example SMARTS start-up JCL below is typical for a VSE/ESA environment and serves as the basis for the various descriptions and explanations that follow:

```

* $$ JOB JNM=RJBENPROC,CLASS=c,DISP=d,LDEST=(,uid)
* $$ LST CLASS=c,DISP=d
// JOB RJBENPROC --- SMARTS Startup ---
/*
/* ===== *
/* SMARTS Startup *
/* ===== *
/*
// OPTION PARTDUMP,NOSYSDDMP,LOG
/*
/* Dump file for APS -----
/*
// DLBL COMDMP,'aps.vsam.dumpfile',,VSAM,CAT=cccccc Step 2
/*
/* Tracing and logging -----
/*
// ASSGN SYSnnn,DISK,VOL=vvvvvv,SHR
// DLBL APSTRCE,'aps.trace.file',0,SD Step 3
// EXTENT SYSnnn,vvvvvv,1,0,ssss,ttt
/*
/* Libdefs -----
/*
// LIBDEF PHASE,SEARCH=(SAGLIB.APSvrs,
SAGLIB.WALvrs) +
/*
// UPSI 00000000
// EXEC TLINSP,SIZE=AUTO
*
* -----
* Example SYSPARMS for the SMARTS SERVER Environment (SSE) (RJANPARAM.P)
* -----
*
INSTALLATION=SMARTS Installation ID
THREAD-GROUP=(DEFAULT,($DEFAULT,20,2,0,0,N))
WORKLOAD-MAXIMUM=050
*
SERVER=(OPERATOR,TLINOPER,TLSPOPER) Operator Communications Server
SERVER=(POSIX,PAENKERN) POSIX Server
*
* -----
* Example SYSPARMS for the SMARTS POSIX Environment (PSX) (PXANCONF.P)
* -----
*
ENVIRONMENT_VARIABLES=/SAGLIB/APSvrs/ENVVARS.P
HOSTS_FILE=/SAGLIB/APSvrs/PXANHOST.P Step 5
LOG=OPER Messages to Operator Console
SYSTEM_ID=SMARTS System ID
*
/*
// EXEC LISTLOG
/*
/ &
* $$ EOJ

```

For a description of the SMARTS SYSPARMS, see *Configuration Parameters*. For parameters relevant to your application, refer to the configuration documentation for the software that runs on SMARTS.

## Where Next ?

You have now installed the SMARTS software. You can continue now with the installation of the application that is to run on SMARTS.

Note that the configuration procedure of the application that runs on SMARTS may instruct you to modify some of SMART's configuration parameters.