

Installation on 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 by providing an untouched sample of any given item.

This document covers the following topics:

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

The Installation Tape

Tape Contents

Datasets

The following table lists the product datasets, what the dataset contains, and how it is created. While you are free to rename the datasets, the dataset names used in the table are used consistently throughout the product documentation to ensure clarity.

Note:

Software AG recommends that you use the default values to ensure that the HTTP server will install and execute without the need for user intervention.

Distributed Datasets

Dataset	Contains ...
SAGLIB.HTTPvrs	all components required by the SMARTS HTTP server
HTTPvrs.INPL	an INPL file for Natural modules and example programs
HTTPvrs.UPDW	an INPL update for Natural Web Interface compatibility
HTTPvrs.GIFS	GIF files for the Natural Web Interface example demo

Libraries and Sublibraries Created during the Installation Process

Name	Dataset containing ...
SAGLIB.HTTPvrs	all components required by the SMARTS HTTP server

Running the Installation Jobs

The following procedure installs the SMARTS HTTP server product.

Step 1: Copy the HTTP Server Components to Disk

- Use the LIBR Restore function to copy the HTTP server components from the tape into the library or sublibrary of your choice.

Software AG recommends that you use the library SAGLIB and the sublibrary HTPvrs.

Step 2: Install the Natural INPL File

-

Note:

This step applies only if you are running with Natural.

Install the INPL file delivered with the SMARTS HTTP server creating a Natural library called HTPvrs.

Refer to the chapter Installing Natural CGI for information about installing Natural CGI support.

Step 3: Install the Natural INPL Update File

-

Note:

This step applies only if you are running with Natural 3.1 or above and the Natural Web Interface.

Install the INPL update file HTPvrs.UPDW delivered with SMARTS to update the SYSWEB library.

Refer to the chapter Installing Natural CGI for information about installing Natural Web Interface support.

Step 4: Customize the HTTP Server

- The sample configuration member HAANCONF.J was copied into the HTPvrs sublibrary during installation. Software AG recommends that you use this member as delivered for the installation verification routines unless the default port number (8080) is inappropriate.

If the HTTP server is to be used with Natural, it may be necessary to change the NATTHRD and NATLIB parameters.

If it is necessary to change the port number or any other parameter (the default port is 8080 and is already set in the supplied default HTTP configuration):

1. Modify the parameters in HAANCONF.A.
2. Assemble HAANCONF using the sample HJBNACNF.J JECL in the HTPvrs sublibrary.

3. Generate the resulting phase into the HTPvrs sublibrary available to the server at startup.

Refer to the HTTP Server Use and Customization chapter later in this manual for details about this process and the parameters that can be specified.

Step 5: Customize the SMARTS Environment

- The SMARTS environment configuration member PXANCONF must include the communication driver interface (CDI) protocol definition for cgistdio.

Following is a sample of the CDI_DRIVER parameter specification:

```
CDI_DRIVER=( 'cgistdio,HAANPCGI' )
```

See the SMARTS Installation and Operations Manual for more information about this step.

Installing under the SMARTS Server Environment

Step 1: Modify the SMARTS Server Start-up Job

- Add the HTTP server library and sublibrary to the LIBDEF concatenation.

Step 2: Modify the SMARTS Server Start-up Parameters

- The member HJENPARM.P in the HTPvrs sublibrary provides a sample set of parameters required by the SMARTS server environment to
 - start the HTTP server parameters; and
 - define the various extensions as RESIDENTPAGE.

Add the parameters from the sample member HJENPARM.P to SYSPARMS section of your SMARTS server start-up JECL.

At least one thread with 404 kilobytes defined below the line and 1 megabyte above the line is required to run the installation verification programs. The values are not absolute and may be reduced depending on server usage and the language environment configuration.

Installing under Com-plete

Note:

The steps in this section apply only if you are running the SMARTS HTTP server under Com-plete.

The procedure described in this section installs the SMARTS HTTP server under Com-plete.

Step 1: Modify the Com-plete Start-up Job

- Add the HTTP server library and sublibrary to the LIBDEF concatenation as for the SMARTS server environment.

Step 2: Modify the Com-plete Start-up Parameters

- Add the parameters from the sample member HJENPARM.P to the SYSPARMS section of your start-up JECL as for the SMARTS server environment.

Step 3: Catalog PAENSTRT

- Use the ULIB utility of Com-plete to catalog the PAENSTRT program with an initial thread size of 400 kilobytes.

Step 4: Install the LE in Com-plete

- To test the C, PL/I, and COBOL programs delivered with SMARTS, you must be able to run language environment (LE)-enabled programs in the Com-plete system.

Refer to the Com-plete documentation for information.

Step 5: Verify the Installation

- See the chapter Verifying the Installation.

Execute the steps for the SMARTS server environment against Com-plete to ensure that SMARTS is running successfully under Com-plete.

In addition to running the programs using the HTTP server, it should be possible to execute the programs from the command line of a Com-plete session. The output from these programs is written to SYSLST.

Step 6: Restart Com-plete

- Near the end of initialization processing, messages are issued to the console indicating that the HTTP server has been started.

If the server does not start successfully, check for error messages and verify the installation steps again.

Where Next ?

Continue with Verifying the Installation to ensure the installation was correct, and for any troubleshooting information.

Then familiarize yourself with the customization and configuration options available in the product. Following the customization sections are a number of sections detailing specific functionality and how to implement this functionality in the SMARTS environment.

For specific information about the programming interfaces and how to use them, refer to Programming CGI Requests.