z/VSE Environments

This section provides information about installing and running the SOA Gateway in the VSE operating system environment. It covers the following topics:

- Using the Deployment Wizard to install on a z/VSE host
- Operating the SOA Gateway server

Using the Deployment Wizard to install on a z/VSE host

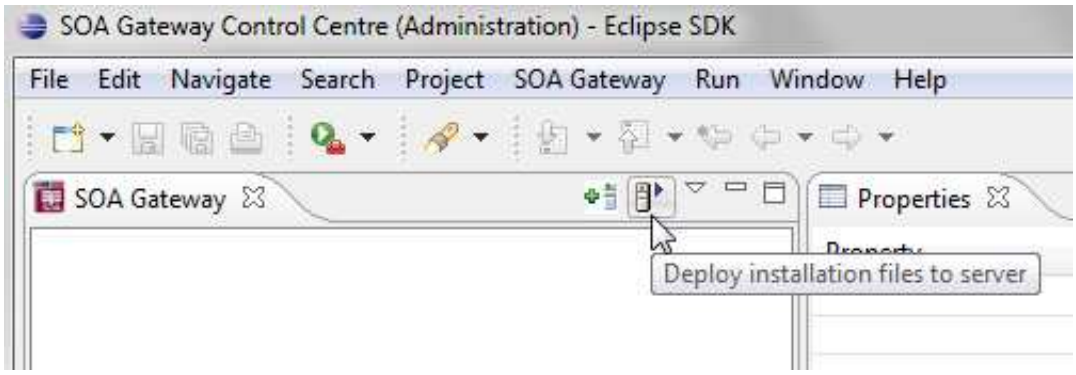
The next step then is to install and start the SOA Gateway server. To do this, you may have to deploy files to a remote machine. For example, you want to run your SOA Gateway Control Center on Windows, but your SOA Gateway server on z/VSE. You can use the deployment wizard to deploy the required files to z/VSE and start your server.

- If this is the first time you've started the Control Centre, the SOA Gateway Perspective will be activated automatically.

  If, for some reason, the SOA Gateway Control Centre perspective has not started, click **Window -> Open Perspective -> Other** and choose **SOA Gateway Control Center (Admin)** from the list. Click **OK**

  You will be asked to specify a project name or accept the default. Usually you will now simply click the 'Continue' button, which will then start the 'Deployment Wizard' to guide you through the process of defining your server within the SOA Gateway Control Center and transfer (FTP) the installation files to the SOA Gateway Server target machine.

- If you, for whatever reason, opt to NOT run the Deployment Wizard at that time, you can start the wizard anytime later on by clicking the Deployment action button in the title bar of the 'SOA Gateway Servers' view



- The Deployment Wizard will now start
- Select your SOA Gateway license file.
- From the list of licensed kits, choose the z/VSE kit.

- Click **Next**
- The following screen allows you to either select an existing SOA Gateway server to deploy to, or to define a new SOA Gateway server to the Control Center. This server definition will be used for both the deployment process as well for (remote) server administration later on.
- To define a new server:

    1. Enter a ’friendly name’. This name will be used to refer to a SOA Gateway Server without needing to enter the hostname (or IP) later on.
    2. Enter the hostname or IP of the machine on which the SOA Gateway server will run. This host/IP will be used to send the install files (via FTP) and will become the host/IP that you use when issusing requests to SOA Gateway.
    3. Enter the port which you would like SOA Gateway to listen for connections on.

       A new Apache web server will be installed, you must ensure that the port choosen here is available for use on the server machine.

       The port entered here will utimately be the port that SOA Gateway uses to service requests.
    4.

       Important:
       Once you have filled in all of the above, click **’Add Server’**
    5. The server will now be added to your SOA Gateway Control Centre ’Servers View’ for later use.

- Alternatively, if an already defined server is to be used (i.e. installation files deployed to it), check ’Deploy to existing SOA Gateway Server’ and select a server from the list in the ’Existing Server Information’ section.
- Click **Next**
- The next screen allows you to extract the z/VSE specific files to your local environment.

- Click the "Extract Files" button and extract the z/VSE files to your local system.
- Using FTP, send your SOA Gateway license file into the SAGLIB.ASGvvv library. This file should be named ASG24.LIC

  Important:
  This file must be not be translated during the transfer, therefore ensure it is transferred in binary.

  Important:
  In case you did not restore the SOA Gateway sublibraries into a library named *SAGLIB*, modify member CPLIC.P and update accordingly

  Review SOAGINS3 and adjust the library/volume/extent settings. Submit this job to copy your license file to the SOA Gateway filesystem.
- If you wish to change the port that SOA Gateway will listen on (default: 56000) transfer the HTTPD.CONF file from z/VSE to your PC and edit it there. The directive to change is `Listen`.

  Important:
  This file must be not be translated by the FTP, therefore ensure it is transferred in binary.

  Important:
  In case you did not restore the SOA Gateway sublibraries into a library named *SAGLIB*, modify member CPHTTPD.P and update accordingly

Review SOAGINS4 and adjust the library/volume/extent settings. Submit this job to copy the HTTPD.CONF file to the SOA Gateway filesystem.

- In case you did not restore the SOA Gateway sublibraries into a library named *SAGLIB*, modify member CONFIG.P to point the SAG_RTS_ETC=FILE: setting from `///SAGLIB/ASG24300/` to `///<yourlib>/ASG24300/`

- Review SOAGSTRT and adjust the library/volume/extent settings.

  Ensure that an Adabas (or WAL (Adabas Limited)) v8 library is included in the LIBDEF, it is essential for the operation of the SOA Gateway server that the level of Adabas is 8.1.3.02 or above .

  If you plan to use the CICS Driver, ensure that SOA Gateway runs in OS390 emulation mode. Add the "OS390" to the JCL, e.g.

  ```
  // EXEC   HTTPD,SIZE=AUTO,PARM='-DONE_PROCESS',OS390
  ```

  Submit SOAGSTRT.JCL to start your SOA Gateway server.

- In the SOA Gateway Server Deployment Wizard dialog click the **Display Server Status** or the **Display Status in Browser Window** buttons to return the status of the server.

- Click **Finish** to close the Deployment Wizard

- Configure SOA Gateway using the *SOA Gateway (Eclipse) Control Center*

Operating the SOA Gateway server

- Sizing the partition for the SOA Gateway server

- Using a disk file for the ADARUN parameters

Sizing the partition for the SOA Gateway server

The SOA Gateway server, started with the parameters as delivered, will require a partition with ca. 500 KB 24-bit and 36 MB 31-bit storage, plus ca. 20 KB SVA-24 and 160 KB SVA-31 storage.

To find out how much free SVA space is available on the system issue the AR command *GETVIS SVA*.

The output will look like this:

```
AR 0015 GETVIS USAGE   SVA-24    SVA-ANY                    SVA-24    SVA-ANY
AR 0015  AREA SIZE:    1,872K    14,728K
AR 0015  USED AREA:    1,312K     6,788K MAX. EVER USED:    1,320K     6,800K
AR 0015  FREE AREA:      560K     7,940K LARGEST FREE:        560K     7,380K
AR 0015 1I40I  READY
```

To get more information about SVA allocation and usage run the *LIBR* utility function *LISTDIR SDL*.

The output will look like this:

```
STATUS DISPLAY       SDL  AND  SVA                 DATE: 2009-07-12
                                                    TIME: 22:25
------------------------------------------------------------------
SDL       TOTAL ENTRIES :    908   (100%)
          USED  ENTRIES :    514   ( 57%)
          FREE  ENTRIES :    394   ( 43%)

SVA(24)   TOTAL SPACE   :   2188K  (100%)
          USED  SPACE   :   1558K  ( 71%)
           - PFIXED AREA:    165K  (  8%)  START AT: 002C7928
          FREE  SPACE   :    630K  ( 29%)

SVA(31)   TOTAL SPACE   :   7620K  (100%)
          USED  SPACE   :   6685K  ( 88%)
           - PFIXED AREA:    680K  (  9%)  START AT: 051C6F00
          FREE  SPACE   :    935K  ( 12%)
------------------------------------------------------------------
DIRECTORY DISPLAY    SDL SORTED BY PHASE NAME       DATE: 2009-07-12
                                                    TIME: 22:25
------------------------------------------------------------------
 M E M B E R    ORIGIN SVA/MOVE  LOADED  PHASE  ADDRESS  ENTRY POINT
NAME     TYPE   SYSLIB   MODE   INTO SVA SIZE   IN SVA   IN SVA
------------------------------------------------------------------
$$BACLOS PHASE    YES    MOVE      31      554  04BE6C48 04BE6C48
$$BATTNA PHASE    YES    MOVE      31     2216  04BE6E78 04BE6E78
$$BATTNK PHASE    YES    MOVE      31     1104  04BE7720 04BE7720
$$BATTNR PHASE    YES    MOVE      31      389  04BE7B70 04BE7B70
$$BCASI3 PHASE     NO    MOVE      31      838  04BEF880 04BEF880
$$BCLOSE PHASE    YES    MOVE      31     1192  04BE7CF8 04BE7CF8
$$BCLOS2 PHASE    YES    MOVE      31      624  04BE81A0 04BE81A0
$$BCLOS5 PHASE    YES    MOVE      31     1032  04BE8410 04BE8410
$$BCLRPS PHASE    YES    MOVE      31      712  04BE8818 04BE8818
$$BCVSAM PHASE    YES    MOVE      31      768  04BE8AE0 04BE8AE0
$$BCVS02 PHASE    YES    MOVE      31      326  04BE8DE0 04BE8DE0
$$BDYD$$ PHASE     NO    MOVE      31      104  04BEFBC8 04BEFBC8
...
...
```

Using a disk file for the ADARUN parameters

The SOA Gateway start job, SOAGSTRT.JCL, as distributed uses inline ADARUN parameters.

It may prove advantageous to put these parameters on a disk file instead, the following is sample JCL to do this:

```
* $$ JOB JNM=DITTOCS,CLASS=0,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB DITTIOCS    CARD TO SEQUENTIAL DISK FILE
// UPSI 1
// DLBL CARD,'SOAGATE.ADARUN.PARAMETERS',0,SD
// EXTENT SYS010,vvvvvv,1,0,ssss,1
// ASSGN SYS010,DISK,VOL=vvvvvv,SHR
// EXEC DITTO
$$DITTO CS FILEOUT=CARD,RECFMOUT=F,BLKSIZE=80
ADARUN PROGRAM=RENTUSER
ADARUN SVC=<your_ADABAS_SVC_number>
ADARUN DATABASE=<your_ADABAS_dbid>
/*
/&
* $$ EOJ
```

After having created the disk file replace the inline ADARUN parameters in SOAGSTRT.JCL with the appropriate sequence of DLBL CARD, EXTENT and ASSGN statements.