

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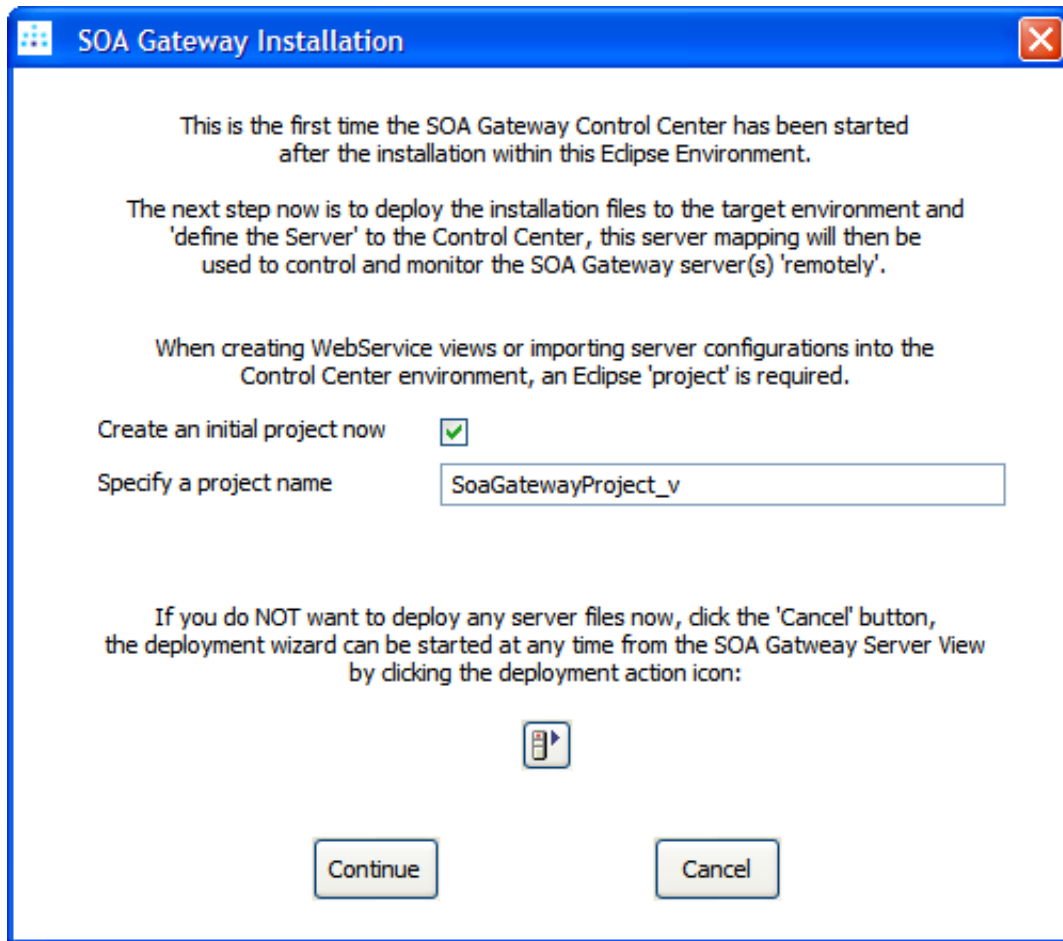
Using the Deployment Wizard to install on a z/VSE host

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.

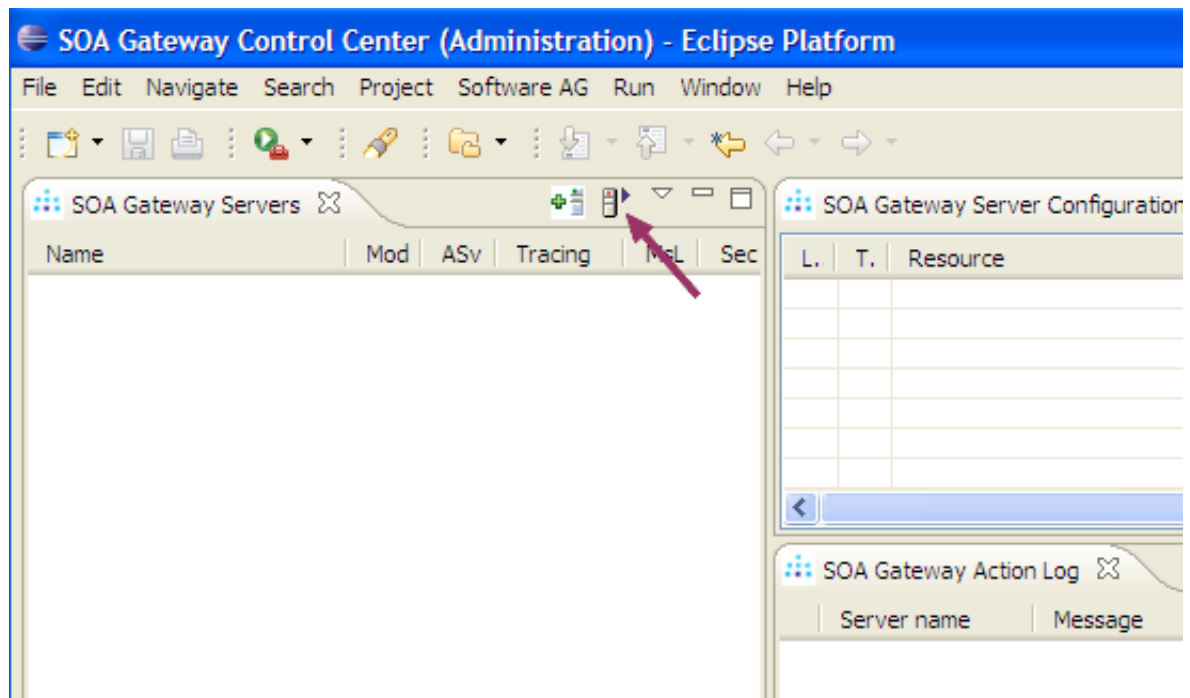
If, for some reason, the SOA Gateway Control Centre perspective has not started, click **Window -> Open Perspective -> Other** and choose **SOA Gateway Control Center (Admin)** from the list. Click **OK**

You will see this initial screen which explains what will happen next:

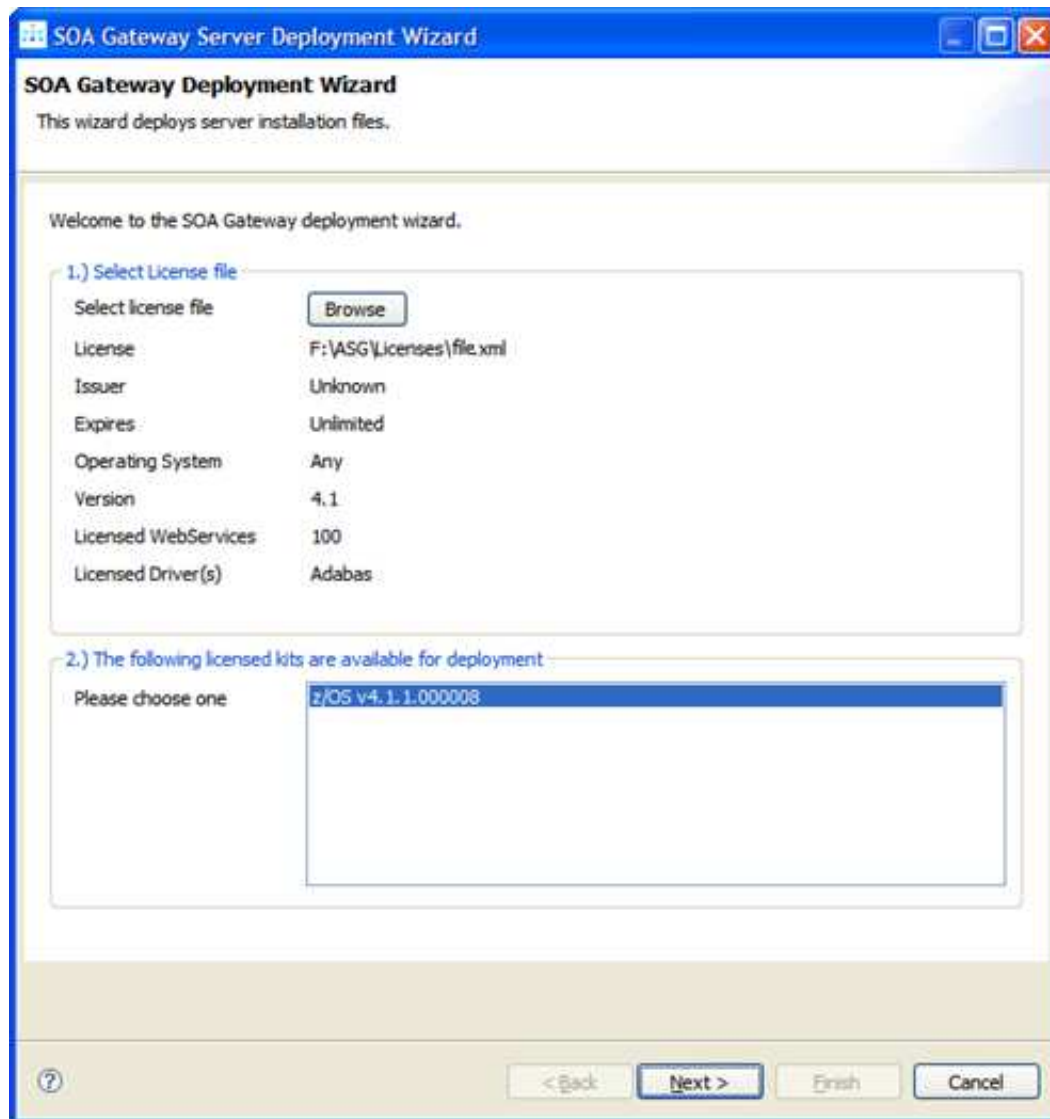


Usually you will now simply click the 'Continue' button, which will then start the 'Deployment Wizard' to guide you thru the process of defining your server within the SOA Gateway Control Center and transfer (FTP) the installation files to the SOA Gateway Server target machine.

- 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 installation files you want to deploy. These files were downloaded as part of the Find and Install step above.
- In this example we are deploying to a z/OS host, the license information is also displayed.



- 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.
- In this example, we define a new server, which we call "myServer" and it will run on host "soagate", listening on port 8025.

- To define a new server:
- 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.
- 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 issuing requests to the SOA Gateway.
- Enter the port which you would like the SOA Gateway to listen for connections on.

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

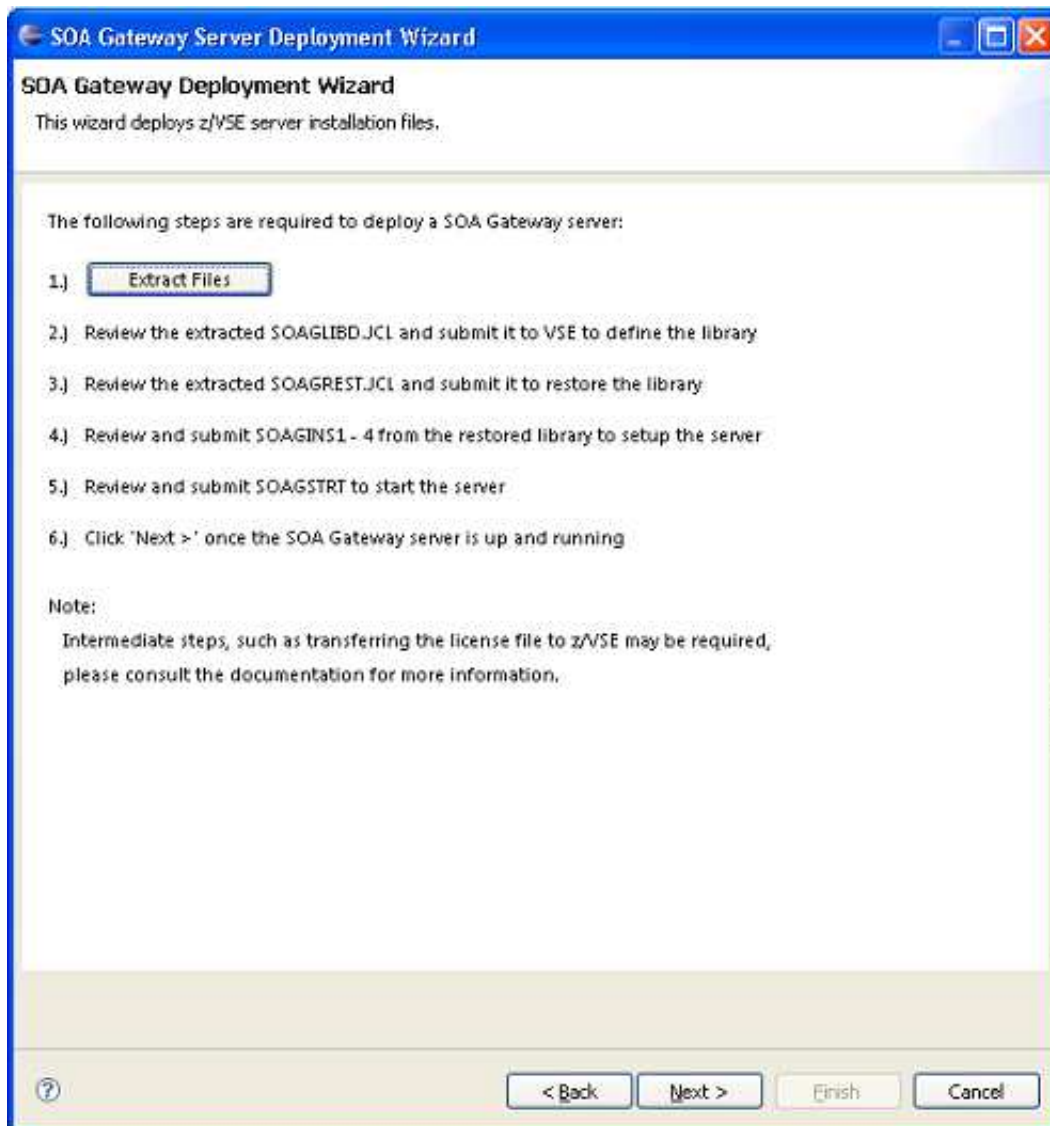
The port entered here will ultimately be the port that the SOA Gateway uses to service requests.

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Important:

Once you have filled in all of the above, click 'Add Server'

- The server will now be added to your SOA Gateway Control Center 'Servers View' for later use.
- Click **Next**
- 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.
- 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.ASGvsv library. This file should be named ASG41.LIC

Important:

This file must 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 the 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/ASG41114/` to `///<yourlib>/ASG41114/`
- Review *SOAGSTRT* and adjust the library/volume/extent settings.

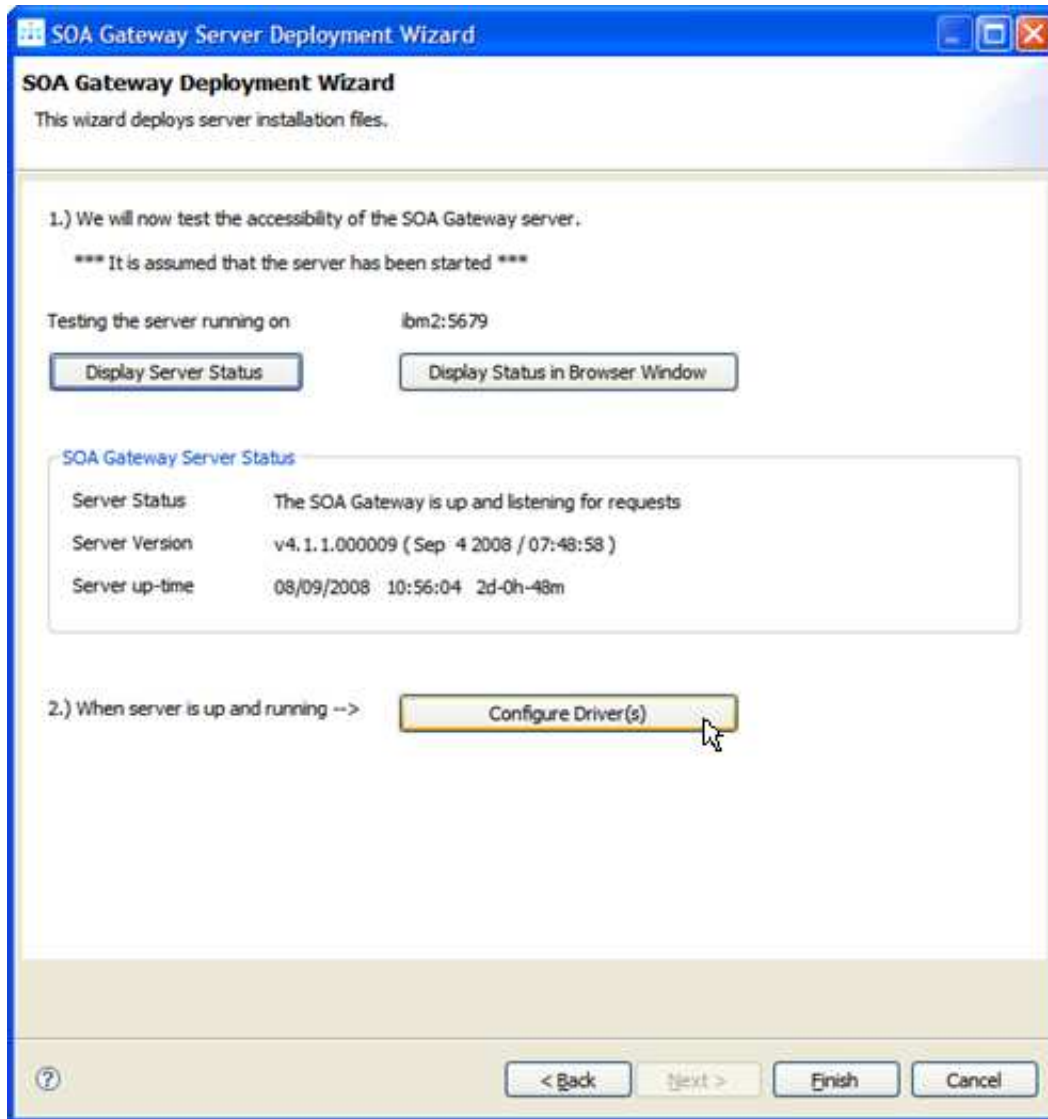
Ensure that an Adabas (or WAL (Adabas Limited)) v8 library is included in the *LIBDEF*, it is essential for the operation of the SOA Gateway server that the level of Adabas is 8.1.3.02 or above .

If you plan to use the CICS Driver, ensure that the 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.

- 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 the 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.