

Installing the Natural SQL Gateway Server under z/OS

This document describes how to install a server for the Natural SQL Gateway (product code NSB) under the operating system z/OS.

The installation of the Natural SQL Gateway server is performed by installation jobs. The sample jobs are contained in the dataset `NSBvrs.JOBS` and are prefixed with NSB, or generated by System Maintenance Aid (SMA).

The following topics are covered:

- Prerequisites
- Content of the NSB Server Distribution Tape
- Installation Procedure

Prerequisites

For details, refer to *Prerequisites* in the section *Installing Natural SQL Gateway*.

Content of the NSB Server Distribution Tape

The installation tape contains the datasets listed in the table below. The sequence of the datasets and the number of library blocks needed are shown in the *Report of Tape Creation* which accompanies the installation tape.

Dataset Name	Contents
<code>NSBvrs.OBJS</code>	Contains the object modules of the server.
<code>NSBvrs.JOBS</code>	Example installation jobs.

The notation *vrs* in dataset names represents the version, release and system maintenance level of the product.

Installation Procedure

- Step 1: Allocate the Natural SQL Gateway server LOAD library
- Step 2: Create a Natural SQL Gateway server configuration file and sample Clist
- Step 3: Link the object modules into the NSB load library
- Step 4: Create server startup JCL

Step 1: Allocate the Natural SQL Gateway server LOAD library

(Job I008, Step 9510)

Step 2: Create a Natural SQL Gateway server configuration file and sample Clist

(Job I009 / Step 9510, 9520, 9530)

Step 9510 creates the NSBCONFG sample member for the batch server.

Step 9520 creates a Clist sample member to ping and terminate a Natural SQL Gateway server.

Step 9530 creates a sample member with a batch job to ping and terminate a Natural SQL Gateway server.

The following parameters of the configuration file have to be defined. See *Configuring the Natural SQL Gateway Server*. For the other parameters, the default values may be used:

FRONTEND_NAME	Specify the name of the Natural SQL Gateway server front-end module you will generate in one of the following steps.
PORT_NUMBER	Specify the TCP/IP port number under which the server can be connected.

Step 3: Link the object modules into the NSB load library

(Job I054, Step 9510)

The NSB object modules must be linked with the necessary runtime extensions of your batch installations into executable load modules.

See sample job NSBI054 on dataset NSBvrs.JOBS.

Step 4: Create server startup JCL

(Job I200, Step 9515)

Described in the section *Configuring the Natural SQL Gateway Server*. See sample member NSBSTART on dataset NSBvrs.JOBS.

Step 9515 creates a startup procedure for the batch server.

Sample:

```
//          PROC  SRV=SAGNSB
//NSB       EXEC  PGM=NATRNSV,
// REGION=4000K, TIME=1440, PARM=' POSIX(ON), TRAP(ON,NOSPIE) /&SRV'
//STEPLIB  DD    DISP=SHR, DSN=NSBvrs.LOAD
//         DD    DISP=SHR, DSN=SMA.LOAD
//SYSUDUMP DD    SYSOUT=X
//CEEDUMP  DD    SYSOUT=X
//CMPRINT  DD    SYSOUT=X
//STGCONFIG DD   DISP=SHR,
//         DSN=NSB.CONFIG(&SRV)
```

```
//STGTRACE DD    SYSOUT=X  
//STGSTDO  DD    SYSOUT=X  
//STGSTDE  DD    SYSOUT=X  
//SYSOUT   DD    SYSOUT=X
```

Note:

The Natural SQL Gateway server account must be defined in the z/OS UNIX System Services (OE segment). If the server account is not defined, the server ends with U4093 and system message CEE5101C in the trace file.