General Information for Starting the Daemons

This chapter applies to the Natural Development Server daemon and the Natural Web I/O Interface daemon. It covers the following topics:

- IMPERSONATE Privilege

- SYSUAF Limits

- Command Procedure STARTUP_DAEMONS.COM

Note:
For information on the Natural Web I/O Interface daemon, see *Installing and Configuring the Natural Web I/O Interface Server* in the *Natural Web I/O Interface* documentation.

IMPERSONATE Privilege

The account from which a daemon is started requires the `IMPERSONATE` privilege.

SYSUAF Limits

The following `SYSUAF` limits need to be adapted for the account from which the daemon is started.

Name	Default Value	Description
FILLM	128	The open file limit is the maximum number of files that can be open at one time, including active network logical links.
BIOLM	150	The buffered I/O count limit is the maximum number of buffered I/O operations.
DIOLM	150	The direct I/O count limit is the maximum number of direct I/O operations (usually disk) that can be outstanding at one time.
BYTLM	128000	The buffered I/O byte limit is the maximum number of bytes of non-paged system dynamic memory that a user's job can consume at one time.

The sizes of `FILLM`, `BIOLM`, `BYTLM` and `PRCLM` depend on the number of started sessions. Make sure to increase these values so that they meet your requirements.

Command Procedure *STARTUP_DAEMONS.COM*

After the installation of Natural, the command procedure *STARTUP_DAEMONS.COM* can be found in the directory *SAG$ROOT:[NATURAL]*.

This command procedure ensures that a daemon is started in the correct account during the startup of a machine. To use the command procedure, you have to adapt the following lines to your requirements:

```
$  l_user     = "SAG"
$  l_ndv_para = """START"""
$  l_nwo_para = """2800"""
```

Variable	Description
l_user	The name of the account under which the daemons are to run.
l_ndv_para	You can specify all start parameters that are valid for the Natural Development Server daemon. These parameters are described in the *Natural Development Server for OpenVMS* documentation. Example: `$  l_ndv_para = """-port=1234","parm=test"""` Instead of the above parameters, you can also specify START. In this case, the values defined in *START_NATDVSRV.COM* are used.
l_nwo_para	The port number for the Natural Web I/O Interface daemon.

When you have adapted all required lines, you have to copy the command procedure *STARTUP_DAEMONS.COM* to *SYS$STARTUP*.

Using the following command, you can add the command procedure *STARTUP_DAEMONS.COM* to the startup database:

```
$mcr sysman startup file /mode=direct /phase=end STARTUP_DAEMONS.COM /parameter=P1:<parameter-value>
```

<parameter-value> defines the daemon(s) to be started. It can be one of the following:

Parameter Value	Description
NDV	Starts only the daemon for the Natural Development Server.
NWO	Starts only the daemon for the Natural Web I/O Interface server.
ALL	Starts all of the above daemons.