

Minimum Requirements for installing Application Server License Keys

After installing the Net Express v3.1 Service Pack 1, customers will be required to have an Application Server license key installed to run any programs on end-user's machines. Even though it is recommended that users install the Application Server in it's entirety, it might be helpful to know how a minimal program can be deployed.

(Also refer to the online help: "Determining the Files to Ship", where you can find the additional files your program may need.)

A minimum Micro Focus COBOL program may look like:

```
DISPLAY "Hello new COBOL world"
```

Name it HW.cbl. Compile and link it with the static runtime system in one step:

```
cbllink -BSF HW.cbl
```

The HW.exe, when run on the system with the Net Express development system installed, will execute successfully.

However, if the HW.exe file were to be transferred to a separate PC that did not contain a copy of the Net Express development system, an attempt to run the HW.exe would fail, unless a copy of the Net Express Application Server and license key is installed on that separate PC. An attempt to run the HW.exe on a separate PC that did not contain a copy of Net Express Application Server and license key would result in an error message like:

ASLM: Semaphore failure.

ASLM: Error 1000

The following steps are necessary to set up the license management.

1. Copy the following files from the new Application Server CD:

1. Semfile - mandatory for the license
2. Prodfiler - mandatory for the license
3. Aslmpclocate.exe - locating the license files and setting a registry entry
4. Aslmpcsilent.exe - installing of the license without interaction
5. Aptrack.exe - installing and maintaining the licenses interactive
6. Mflang*.lbr - mandatory for Aptrack.exe

Both the Aptrack.exe and Aslmpcsilent.exe executables will install the license itself. The Aptrack.exe is an interactive installation procedure, while the Aslmpcsilent.exe is run from the command line and was designed to be included in an application setup process to run silently, without the need for user interaction. The Aslmpclocate.exe is used to set a registry entry, which points to a directory where Semfile and Prodfiler are located.

By default, it is expected that all of the Application Server files will be located in C:\mfaslmf. However, you may locate the files in any single location you wish, as long as the registry entry points to that location.

2. Set the necessary registry entry

The Windows registry entry needs to be set to define where the Application Server files will be found. This is done with the Aslmpclocate.exe program:

```
Aslmpclocate.exe c:\mfaslmf (or your drive\directory location)
```

Now, if the HW.exe is started, the previous ASLM error and abort message will have changed to a warning, which states that a license key is required. This message can be temporarily suppressed, for approximately one month, by using Aptrack.exe.

3. Install your Application Server License Key

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A license key can be installed either by either the Aptrack.exe or the Aslmpcsilent.exe. Open a command prompt, change directory to c:\mfaslmf (or your drive\directory location) and enter your license key:

Aslmpcsilent.exe Function Serial-No License-Key

Function: Use function = 2. (See the Online Help for a description of the function codes available)

Serial-No: enter the serial number that was delivered with your Application Server CD

License-Key: enter your license key value delivered with your Application Server CD

After this step, the license is ready to use. Any COBOL application program can be started as often as you wish on this machine, up to the limit of the number of licenses covered by your license key. If a permanent license key is installed, the licensing process may never need to be run again.

Hints:

- For test purposes you can install your 5 development Application Server licenses. You can find these license keys on our SupportLine Product Updates page. Go to that page and click on the "The Net Express Application Server Developer keys can be found here" link under the download information for Service Pack 1.
- The license keys never contain the letter O but may contain the digit 0 (zero).
- Please install the Doc08n31-FixPack or later from SupportLine Product Updates, Net Express Service Pack 1 page. It updates in the bookshelf the Application Server License Guide.
- The program Aslmpcsilent.exe is not included in the downloadable Application Server Service Packs asp12a31.exe, asp13a31.exe and asp14a31.exe. Rather, it is only available on the Application Server CD.
- It is recommended that you completely read the "Application Server License Guide" from the Net Express bookshelf (the Online Help topic "Licensing Application Server").