SNiFF+ ™

Installing SNiFF+ for Windows

**Turn this manual around to read the
SNiFF+ Installation Guide for Unix**

TakeFive software
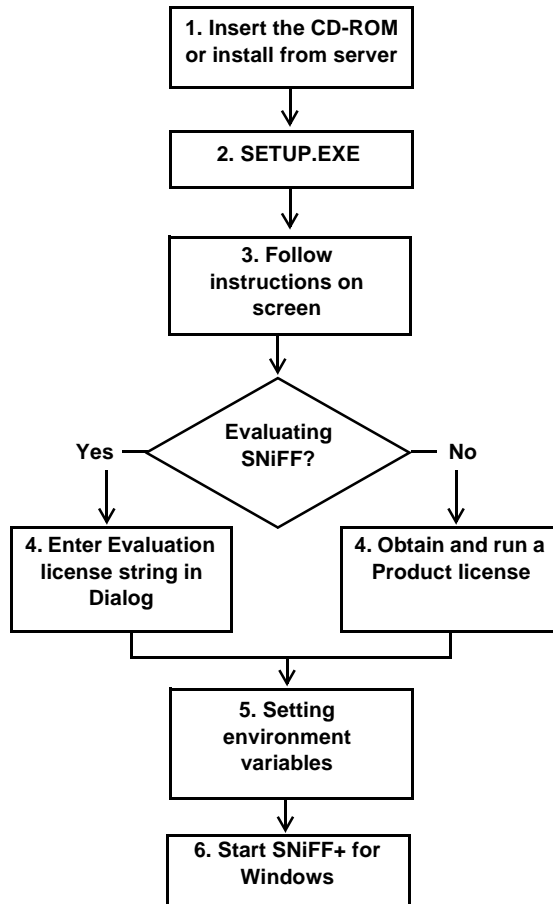An Integrated Systems Company

Table of Contents

Installing SNiFF+ for Windows — Overview

```
        ┌──────────────────────┐
        │ 1. Insert the CD-ROM │
        │ or install from server│
        └──────────┬───────────┘
                   │
                   ▼
        ┌──────────────────────┐
        │ 2. SETUP.EXE         │
        └──────────┬───────────┘
                   │
                   ▼
        ┌──────────────────────┐
        │ 3. Follow            │
        │ instructions on      │
        │ screen               │
        └──────────┬───────────┘
                   │
                   ▼
              ╱─────────╲
    Yes──────╱ Evaluating ╲──────No
             ╲  SNiFF?    ╱
              ╲─────────╱
       │                      │
       ▼                      ▼
┌────────────────┐   ┌────────────────────┐
│ 4. Enter       │   │ 4. Obtain and run a│
│ Evaluation     │   │ Product license    │
│ license string │   │                    │
│ in Dialog      │   │                    │
└───────┬────────┘   └─────────┬──────────┘
        │                      │
        └──────────┬───────────┘
                   ▼
        ┌──────────────────────┐
        │ 5. Setting           │
        │ environment          │
        │ variables            │
        └──────────┬───────────┘
                   │
                   ▼
        ┌──────────────────────┐
        │ 6. Start SNiFF+ for  │
        │ Windows              │
        └──────────────────────┘
```

Statistics

Required disk space

Installed SNiFF+	Diskspace
Complete installation	~71 MB
`.pdf` files	~12 MB
Example sources for all tutorials	~6 MB
Core product executables	~53 MB

Memory required for a project with approx. 85 KLOC with Rapid Reference Technology enabled

State	Memory
SNiFF+ empty process	~15 MB
After loading project Symbols	~19 MB
After one cross reference (referred - by query)	~20 MB

Diskspace for files generated by SNiFF+

The diskspace required for files generated by SNiFF+ depends on the number of symbols in your source code but is usually not larger than the diskspace required for the sources.

Installation from CD-ROM or Server

The installation of SNiFF+ for Windows assumes familiarity with the Windows NT/95 operating system.

Note

In all following sections, `%SNIFF_DIR%` refers to the SNiFF+ for Windows installation directory.

---

1. **Insert the CD-ROM or install from server**

- To install from a **server**, map a network drive to the server location where `SNiFF+` is installed. Then, in the Command Prompt, enter:

```
<mapped_network_drive>:
cd %SNIFF_DIR%\setup
setup -fclient.ins
```

- To install from **CD-ROM**, insert the CD-ROM. If Autorun is enabled, `SETUP.EXE` will be started automatically. If not, use the Windows Taskbar **Start > Run...** command.

2. **SETUP.EXE**

`SETUP.EXE` installs the selected SNiFF+ for Windows packages and copies all required files to the installation root directory. It can also set up a program group for SNiFF+ and set all necessary registry entries.

Important

SNiFF+ for Windows uses a package-oriented approach for installation; `SETUP.EXE` allows you to install, reinstall or uninstall packages at any time after the initial installation.

3. **Follow instructions on screen**

   CAUTION: Filename and directory conventions

   SNiFF+ for Windows uses long file names (file names > 8.3).

   Do **not** install on systems that don't support long file names (e.g., older releases of Novell Netware).

   Do **not** install SNiFF+ for Windows in a directory path that contains blank spaces.

   For example, SNiFF+ will **not** function properly if your install path is `C:\Program Files\sniff`

   Installation directory

   All installed files are stored in the SNiFF+ for Windows installation directory (`%SNIFF_DIR%`)

   Environment variables

   SNiFF+ for Windows needs several environment variables. You have the option of letting `SETUP.EXE` set these variables for you during installation. If you do not allow `SETUP.EXE` to set the variables, you can subsequently run batch files (in `%SNIFF_DIR%`) to set the necessary environment. These are:

   `SetEnvVars.bat` and `SetPath.bat`

`SNIFF_DIR`	Defines the SNiFF+ for Windows installation directory
`PATH`	Includes the SNiFF+ for Windows executables directory in your PATH
`SHELL` `ENV`	Variables needed to run the GNU toolkit supplied with SNiFF+ for Windows

   How SNiFF+ selects the path for temporary files

   - The path specified by the `%TMP%` environment variable.

   - If `%TMP%` is not defined, the path specified by the `%TEMP%` environment variable.

- If neither `%TMP%` nor `%TEMP%` are defined, the current directory.

Registry entries

Besides changes made to the registry due to the environment variables, only the absolutely necessary changes (e.g., program manager group) are stored in the registry. If you choose to install the integration with Microsoft Developer Studio, then necessary entries to register SNiFF+ as an add-on are made in the Developer Studio section of the registry.

%HOME%

SNiFF+ does not use the %HOME% environment variable, even if set.

User Profiles

Each user has his/her own set of profiles stored in the directory `%SNIFF_DIR%\Profiles\<user_name>\`

4. **License SNiFF+ for Windows**

There is a new Demo mode available that allows you to use SNiFF+ with projects containing up to 200 files, however, remote compile and debug is not possible in this mode. If you want to evaluate SNiFF+ for larger projects, you need a license.

If you are evaluating SNiFF+, please refer to for details.

For details on how to obtain and install a product license, please refer to .

5. **Setting environment variables**

The installation program asks you if it should store the necessary environment variables in the registry. If you choose to do so, you can start SNiFF+ at any time from the Programs Menu Group. If not, you can use the two batch files `SetEnvVars.bat` and `SetPath.bat` located in `%SNIFF_DIR%` to set the environment variables at the command prompt.

6. **Start SNiFF+ for Windows**

   If the environment has been stored in the registry, SNiFF+ can be started from the chosen program group. If the environment has been set manually at the command prompt, entering `sniff` at the command prompt starts SNiFF+.

Further Information

SNiFF+ documentation

The full SNiFF+ documentation is available online.
Use the Launch Pad's **Help(?)** menu to access the full documentation set.
If you have chosen to install the PDF documentation files, these are located in the `%SNIFF_DIR%/doc` directory. Please read the `Read_pdf.wri` file in that directory for further information on viewing and printing these files.
To have the documentation files in PostScript format, copy the `doc.tgz` file from the CD and extract them manually.

TakeFive News of the Quarter, Web-Site, FAQ, SNiFF+ Mailing List

TakeFive Software offers different channels to exchange information, get latest news and answer frequently asked questions. All this information is available at the TakeFive website:

http://www.takefive.com

The site also offers more information about the SNiFF+ users' mailing list and the quarterly newsletter.

You can also subscribe to the *Source Code Engineering Newsletter* by sending an e-mail:

To:	majordomo@takefive.co.at
From:	<YOUR E-MAIL ADDRESS>
Subject:	<empty>
Text:	subscribe takefive-newsletter

Evaluation license

The evaluation license is not locked to a specific machine and is valid until its expiration date. You can ask for an evaluation license without having to supply any details about your configuration.

After you have requested a license from either your local distributor or from TakeFive, you will be given an "evaluation license string". Please enter this string into the dialog box during installation.

You can also append the license string to the `license.dat` file in the SNiFF+ root directory if you have not entered it while installing SNiFF+. The following is an example of an evaluation license:

```
FEATURE SNiFF_EVAL none 3.000
1-nov-1998 0 CCE0CCF1AC43E65912E3 "" DEMO
```

Note: If you are already using FLEXlm for other products you can still use the SNiFF+ evaluation string if you keep it in a separate file from your existing product license and modify the environment variable `LM_LICENSE_FILE` for FLEXlm accordingly.

E.g., copy the SNiFF+ evaluation string into `license.dat` and set LM_LICENSE_FILE to the following:

```
LM_LICENSE_FILE=
<path_to_existing_license>:<sniff_dir>/
license.dat
```

Caution: Do NOT start the license server when working with an evaluation license only.

Product license

SNiFF+ comes with the FLEXlm floating license server. The license server, which is node-locked, keeps track of the number of concurrent clients and makes sure that all licenses are current. Client licenses may float across the network. You need a license for every concurrent SNiFF+ user. This license comes in the form of an ASCII text string. The license string is obtainable from either your SNiFF+ distributor or directly from TakeFive Software.

Obtaining a license

E-mail or fax your address details and the host id (see) to one of the following locations or your local distributor:

Europe, Middle East and Africa:

E-mail: sniff-license@takefive.co.at

Fax: +43 662 4579156

The Americas and Pacific Rim:

E-mail: sniff-license@takefive.com

Fax: (408) 777-1444

After requesting the license, you will receive the product license string by either e-mail or fax. Please append this string to `%SNIFF_DIR%\license.dat` in the SNiFF+ root directory, or add it to an existing FLEXlm product license file.

Product license file example

```
SERVER palomar 00a0244ea3c6 7594
DAEMON takefive
c:\sniff\flexlm\flexlm-6.1F\takefive.exe
FEATURE  SNiFF  takefive  3.000  01-jan-00  4
778870C1932FEEA950B9 ""
FEATURE SNiFF_C++ takefive 3.000
01-jan-00 4 AB2870D14592A784433A ""
```

You may change only three fields in the license.dat file:

- The hostname in the SERVER line (e.g. `palomar`)
- The TCP port number in the SERVER line (e.g. `7594`)
- The path of the takefive executable in the DAEMON line

Do **not** change any other fields, otherwise the license will not be valid!

IMPORTANT: You MUST edit the DAEMON line by entering the full path to the used takefive executable, e.g.

```
DAEMON takefive
c:\sniff\flexlm\FlexLM-6.1F\takefive.exe
```

Furthermore, if you already use software licensed with FLEXlm, you will have to merge the various license files. The resulting license file must consist of one SERVER line (or more for multi-server configurations), followed by any number of DAEMON lines, which in turn are followed by any number of FEATURE lines. Be careful not to mix DAEMON and FEATURE lines. Moreover, you should always use the latest version of lmgrd supplied with the various products licensed with FLEXlm.

To find out what the version number of your lmgrd is, enter the following command at the command prompt:

```
%SNIFF_DIR%\FlexLM\FlexLM-6.1F\lmutil
lmver lmgrd.exe
```

Determining the host id

You can obtain the host id for your machine by entering the following command at the command prompt:

```
%SNIFF_DIR%\FlexLM\FlexLM-6.1F\lmutil
lmhostid
```

The `lmutil` program determines the host id on Windows computers by selecting the ethernet card id.

Caution: If you get the message "The FLEXlm host ID of this machine is 00000000" or "ffffffff," install IPX/SPX protocol.

If your computer does not have an Ethernet card installed, please supply the disk serial number of the first hard disk installed in your system, typically this is `C:`. To find out what your hard disk's serial number is, enter the following commands at the command prompt:

```
cd c:\
dir
```

You can read the disk serial number from the volume serial number given at the top of the output. For example, if the output contains the line:

```
Volume Serial Number is 98DE-AB05
```

The disk serial number is `98DEAB05` (without dash).

Note: If you installed the Control Panel file (see below), you can also get the host id and the disk serial number in the FlexLM Control Panel.

Installing the FLEXlm License Manager

To install the FLEXlm License Manager

1. Copy the file

    ```
    %SNIFF_DIR%\FLEXlm\FlexLM-6.1F\FLEX.CPL
    ```

    to your system directory. On Windows 95, this is typically
    `C:\windows\system`. On Windows NT, this is typically
    `C:\winnt\system32`.

2. Verify that there are other files with the file extension `cpl`
    in the directory.

3. Select Control Panel from the Start Menu, click on the
    FLEXlm icon and configure the license server. You can
    configure the license server to be automatically started
    whenever the server machine is booted. For more infor-
    mation please refer to the file:

    ```
    %SNIFF_DIR%\FLEXlm\FlexLM-6.1F\READFLEX.WRI
    ```

    Note: When running the FLEXlm License Manager as a
    service, we recommend that you copy the directory

    ```
    %SNIFF_DIR%\FLEXlm\FlexLM-6.1F
    ```

    to another location and run the license daemon from
    there. This makes removing or upgrading SNiFF+ for
    Windows much easier without affecting the license
    manager daemon setup.

    Caution: Do NOT start the license server when working
    with an evaluation license. For information about
    evaluation licenses, please refer to
above.

Starting the license server

You must start the license server before using SNiFF+ with a
product license. The license server is located in

```
%SNIFF_DIR%\FLEXlm\FlexLM-6.1F.
```

You can do this in two ways. Either manually, by entering

```
lmgrd -app -c %SNiFF_DIR%\license.dat
```

or automatically as follows:

In the FLEXlm Control Panel, check mark the Start Server at Power Up box. For more information, please refer to the previous section, .

Note: This is possible for both Windows 95 and Windows NT. However, on Windows NT also check mark the Use NT Services box.

Before using the automatic start-up service, try starting the license server manually in order to see any error messages. If there aren't any, it is safe to start the license server automatically.

Checking the active license server

The `lmutil lmstat` program provides information about the status of the license server and the users that have active licenses.

For status information about the running server, enter the following at the command prompt:

```
%SNIFF_DIR%\FLEXlm\FlexLM-6.1F\lmutil
lmstat -a -c %SNIFF_DIR%\license.dat
```

or select Status in the FLEXlm Control Panel.

You can also get license server information from within SNiFF+ by choosing the License... command from the Launch Pad's Help(?) menu.

%LM_LICENSE_FILE% environment variable

The `%LM_LICENSE_FILE%` environment variable needs to be set only if the `license.dat` file is not in `%SNIFF_DIR%` or the default location `C:\FLEXlm\`. In this case, set the `%LM_LICENSE_FILE%` to the full path and filename of the license file.

You can either temporarily change the environment variable at the command prompt by using the `set` command, or permanently set the environment variable in the System applet in the Windows Control Panel (Windows NT), or in your `autoexec.bat` file (Windows 95).

FLEXlm User Manuals

The FLEXlm online user documentation can be found at the following two locations:

http://www.ptsdirect.co.uk

Productivity Through Software plc
England, UK (use the search facility)

http://www.globetrotter.com/manual.htm

Globetrotter Inc. in California, USA