

# **Visual SlickEdit<sup>®</sup> v7**

## **Installation Guide**

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# Introduction

## About This Guide

This guide contains information for installing and upgrading Visual SlickEdit. To best configure Visual SlickEdit and maximize your productivity, please also read the “Quick Start” chapter of the User Guide (also included in the online help).

## Intended Audience

This guide is intended for anyone responsible for installing and upgrading Visual SlickEdit. Because Visual SlickEdit is available for Windows, UNIX and OS/390 or z/OS platforms, and its functionality on each platform is similar, this guide is intended for use on *all* platforms.

NOTE: Any item in this guide or the online help that refers to OS/390 also applies to z/OS.

## Key Binding Conventions

Throughout this guide the default (CUA) key bindings are given for your convenience. If you change Visual SlickEdit’s emulation or key bindings, please remember that references to key bindings in the guide may be different from your own key bindings.

Commands are specified in the following format: (“Search”, “Find”). This means you activate the menu bar (press ALT), select the “Search” menu, and select the “Find” menu item. Keystrokes are specified in the following format:

| Action                             | Convention                            | Example        |
|------------------------------------|---------------------------------------|----------------|
| Type input from the keyboard       | Input shown in boldface               | Type <b>vs</b> |
| Press a key on the keyboard        | Key shown in uppercase                | Press ESC      |
| Mouse click a button on the screen | Button shown in uppercase             | Click HELP     |
| Press a key combination            | Keys shown in uppercase linked by “+” | CTRL+=         |

## Additional Visual SlickEdit Documentation

In addition to this Installation Guide, the complete Visual SlickEdit documentation set includes the following:

- Online version of this Installation Guide
- Visual SlickEdit User Guide

- Individual Quick Reference Sheets for the following emulations:
  - Brief
  - CodeWarrior
  - CUA
  - Epsilon
  - GNU Emacs
  - ISPF
  - SlickEdit (Text Mode Edition)
  - vi
  - Visual C++

## Contacting SlickEdit Inc.

You can access patches and macros from the SlickEdit Inc. Web site: [www.slickedit.com](http://www.slickedit.com).

Contact SlickEdit at:

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| Product Support: | +1 919.473.0070*                                                 |
|                  | <a href="mailto:support@slickedit.com">support@slickedit.com</a> |

|        |                                                              |
|--------|--------------------------------------------------------------|
| Sales: | 800.934.3348                                                 |
|        | +1 919.473.0070                                              |
|        | <a href="mailto:sales@slickedit.com">sales@slickedit.com</a> |

|      |                 |
|------|-----------------|
| Fax: | +1 919.473.0080 |
|------|-----------------|

\* NOTE: A current Maintenance and Support contract is required for telephone support past the 30 day warranty period.

# **Before You Begin**

## **System Requirements**

### **Windows**

- CD-ROM drive if installing from media.
- Windows NT/2000/XP/98/Me.
- 16 MB of memory.
- At least 43 MB of free disk space; 57 MB if you install macro source code.

### **UNIX**

- Solaris SPARC, AIX, HP-UX, IRIX, Linux or FreeBSD.
- CD-ROM drive if installing from media.
- 24 MB of memory.
- A full installation requires 64 MB of disk space. This estimate includes disk fragmentation.

### **OS/390 or z/OS**

*On the System/390 or zSeries host:*

- OS/390 v2.4 or higher, or z/OS.
- UNIX System Services enabled (comes standard with OS/390 V2.4 or higher and z/OS).
- 150 MB of disk space. (This estimate includes disk fragmentation.)
- Networked to either a Windows PC or UNIX workstation.

*On a Windows workstation:*

- Networked with TCP/IP, and 10 Mb/second bandwidth recommended.
- PC X Server (Hummingbird Exceed, WRQ Reflection X, or Netsarang Computer Xmanager, for example).

*On a UNIX workstation client:*

- Networked, 10 Mb/second bandwidth recommended.
- X11 R5 or higher.

## **Network Considerations**

To install Visual SlickEdit on a network, all users will need a local directory for storing their own Visual SlickEdit configuration files. Network installations do not reduce the configuration capabilities of the editor in any way. By default, local user configuration files require about 6 MB of disk space; however, if local user disk space is extremely limited (for example, a college or university account) you can reduce this size requirement to around 300 KB.

NOTE: If you reduce the size requirement, the editor will take slightly longer to start up.

Perform the following steps to reduce configuration disk space requirements:

1. From the Set Variable dialog box ("Macro", "Set Macro Variable..."), set the macro variable "def\_localsta" to 0.
2. From the Visual SlickEdit command line, type "**write\_state** <path>**vslick.sta**" (UNIX: "**write\_state** <path>**vslick.stu**") and press ENTER.

NOTE: Replace <path> with the directory of the global state file (default is "c:\vslick\"). On UNIX: "/usr/lib/vslick/". On OS/390: "/usr/lpp/vslick/").

### Windows Platforms:

By default, users' configurations are stored in their application data directory. You can change the configuration directory by defining a VSLICKCONFIG environment variable. If multiple users are accessing Visual SlickEdit on a network, and are not logging in to Windows (Windows 98/Me), all users need to define a VSLICKCONFIG environment variable which refers to a local directory. This will allow each user to have their own local configuration.

Windows systems with a network logon will use the logon user account name to track license usage. If you are not logging on to your Windows system (Windows 98/Me), then set a VSUSER environment variable to a unique name.

### UNIX and OS/390 Platforms:

By default, users' local configurations are stored in their "\$HOME/.vslick" directory. You can change the configuration directory by defining a VSLICKCONFIG environment variable.

## Preparing for an Upgrade

If you are upgrading from Visual SlickEdit v5.0 or later, it is recommended that you install Visual SlickEdit on top of the previous installation. This will allow your configuration changes to be automatically transferred to the new version if possible (some configuration changes will not be transferred automatically, such as changes to system menus, toolbars and dialog boxes).

## Installing Visual SlickEdit for the First Time

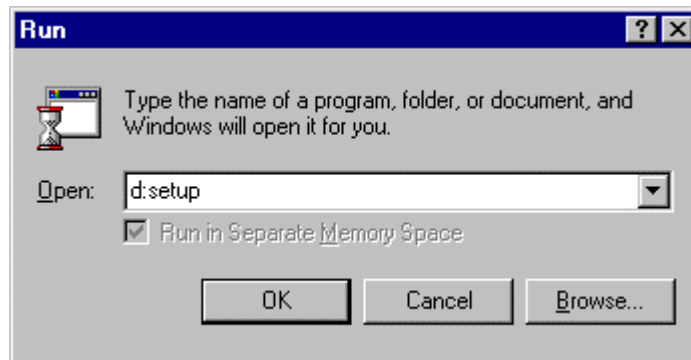
This chapter provides instructions for installing Visual SlickEdit for the first time. If you are upgrading your current version of Visual SlickEdit, please refer to “[Upgrading from a Previous Version](#)” on page 17.

### Windows

A full installation requires about 57 MB of disk space. If you do not install the macro source code you can save approximately 14 MB of disk space.

Visual SlickEdit starts up automatically when you insert the CD into the drive. To manually run the Visual SlickEdit install program, perform the following steps:

1. If you are already running Visual SlickEdit, exit now so that all files can be replaced.
2. Insert the CD.
3. If the setup program is not already running (the CD-ROM version supports Autorun) perform the following steps:
  - Press CTRL+ESC.
  - Select the "Run..." menu item to display the Run dialog box, as shown below:



- Type "<drive>;setup" where <drive> is the drive letter containing the CD and press ENTER.
4. If you added Visual SlickEdit to your path, then you can type “vs” at a command prompt to run it. You can also run Visual SlickEdit from the program group that was created during installation.

## UNIX (Solaris SPARC, AIX, HP-UX, IRIX, Linux, FreeBSD)

Installation does not require users to modify their logon shell scripts. While not required, it is recommended that you install Visual SlickEdit from X Windows to take advantage of automatic tagging of C++ and Java runtimes.

### Installing from CD

Perform the following steps to install Visual SlickEdit onto a hard disk:

1. Make sure no users are currently running Visual SlickEdit so that all files can be replaced. Under some UNIX operating systems, such as Solaris SPARC, executables that are running can be replaced, causing the currently running executable to crash.
2. Mount the CD block device to a local directory by using a command of the form:

| UNIX Version  | Mount Command to Use:                             |
|---------------|---------------------------------------------------|
| Solaris SPARC | mount -t hsfs /dev/sr0 /cdrom                     |
| AIX           | (use 'smit' utility to mount)                     |
| * HP-UX       | mount -F cd960 -o cdcase /dev/dsk/c201d4 0 /cdrom |
| IRIX          | (use automount)                                   |
| Linux x86     | mount -t iso9660 /dev/scd0 /cdrom                 |
| FreeBSD       | mount -t cd9660 /dev/acd0c /cdrom                 |

NOTE: Block devices and local directory mount points are only provided for illustration. Ask your system administrator for the actual device name.

**\*Special instructions for users of HP-UX 10.x:**

After mounting the CD, if the files on the CD appear as:

*filename;#*

where # is a version number and *filename* is all UPPERCASE, then you must use the following option when mounting the CD block device (see installation instructions above for more detailed mounting instructions):

**-o cdcase**

- At an xterm or full screen prompt, change to the UNIX platform directory on the CD with the appropriate command:

```
# cd <Platform Directory >
```

| UNIX Version  | Platform Directory                |
|---------------|-----------------------------------|
| Solaris SPARC | automount directory/solaris/sparc |
| AIX           | /cdrom/aix/rs6000                 |
| HP-UX         | /cdrom/hpux/hp9000                |
| IRIX          | automount directory/irix          |
| Linux         | /cdrom/linux/x86                  |
| FreeBSD       | /cdrom/freebsd/x86                |

- Run the installation at the prompt:

```
# ./vsinst
```

By default, the install program will place executables in "/usr/lib/vslick/bin".

- To run Visual SlickEdit, enter the following command at a command prompt:

```
/usr/lib/vslick/bin/vs
```

## Adding Visual SlickEdit to the Desktop

A 32x32 X11 pixmap is provided that enables you to create a desktop launcher/shortcut for Visual SlickEdit. This file is called "vs.xpm" and is located in /usr/lib/vslick/bin/.

## OS/390 or z/OS

### IMPORTANT:

- UNIX commands (shown in boldface type) are case-sensitive. Type all commands in the case shown.
- The system programmer should have superuser privilege on OS/390 to perform the installation. After the installation is completed, there should be no superusers accessing Visual SlickEdit.
- The following instructions direct you to install Visual SlickEdit under a TSO OMVS session. If you are familiar with OMVS and connecting directly to OMVS without a TSO session you can use that method also.

To install Visual SlickEdit, perform the following steps:

1. Sign on to TSO/E OMVS:
  - During signon to TSO/E, record the value in the SIZE field.
  - Adjust the SIZE field on the TSO/E SIGNON panel to **65536**.
  - From the READY prompt, enter **OMVS**. If you automatically go into ISPF, go to option 6 and enter **OMVS**.
  - The next time you log on to TSO/E, change the SIZE field back to the original value.
2. Allocate DASD on OS/390:

Use the TSO ishell command or the UNIX command **df -k** to determine the available space in each HFS. For example, use **df -k /usr/lpp** to display the available space in the HFS containing the “/usr/lpp” directory and **df -k /tmp** to display the available space in the “/tmp” directory. If you do not have enough space, allocate an HFS on OS/390. This HFS must have enough available space for the following:

- 60 MB temporary directory. Once the installation is completed, this temporary directory can be deleted to free up space. If there is more than 100 MB available in /tmp, create a /tmp/vse directory and use it as the temporary directory.
  - 85 MB product installation directory. (150 MB is recommended to facilitate future upgrades.) Allocate this space (about 220 3380 cylinders) and mount it on /usr/lpp/vslick. Make sure the mount point gives read and execute access to everyone.
  - The /tmp directory should have 100 MB (150 3380 cylinders) plus 5 MB (7 3380 cylinders) for each Visual SlickEdit user.
  - 10 MB (15 3380 cylinders) available for each user's \$HOME directory.
3. Transfer files from the distribution CD to OS/390 Host:
    - Transfer the file FTTPACK.TAR, from the distribution CD to the OS/390 host. If using ftp, then be sure to **use BINARY mode**.
    - Place this file in the temporary HFS directory.

## 4. Prepare OS/390:

- You should already be logged on to TSO/E with SIZE = 65536 (from Step 1). If not, log on to TSO with SIZE = 65536 and start an OMVS session.
- From the OMVS session, execute the following commands to unpack the files and ready them for installation:

```
cd <HFS-temporary-directory>  
tar -xvof FTPPACK.TAR
```

- Once unpacked, verify that you have the following files:

```
checkres  
checkx  
vsinst  
vspack (or vspackd for the evaluation version)  
xband4
```

- Remove the FTP distribution to save disk space with the following command:

```
rm FTPPACK.TAR
```

## 5. Prepare workstation to display X window application:

**Windows:**

- Determine your workstation's IP address with the **ipconfig** command in a MS/DOS prompt command window. You should also know if your environment uses static or dynamic IP addresses.
- Start the X Server (Xmanager, Exceed or Reflection X for example) on your workstation. (It is recommended that you put a shortcut to your X Server in your Windows Startup folder so the X Server is started automatically).

**UNIX:**

- Determine your workstation's IP address with the **ifconfig** command in a shell window. You should also know if your environment uses static or dynamic IP addresses.
- Start X Windows on your workstation.
- In a shell window, give host access to your workstation's display with the **xhost** command. Example: "**xhost +<ip address>**". You may need superuser rights to use the **xhost** command.

## 6. Verify OS/390 and X Server connectivity:

From the OMVS session, perform the following steps to test the connectivity between OS/390 and your workstation:

- Set the DISPLAY environment variable to the IP address of the your workstation that is running the X Server. The “n’s” in the DISPLAY command are the workstation’s IP address obtained above. Execute the following commands:

```
DISPLAY=nnn.nnn.nnn.nnn:0.0  
export DISPLAY
```

- Run the server connectivity validation program with the following command:

```
./checkx
```

- If you see a confirmation window on your workstation, you have proper connectivity. Click anywhere inside the window. If you do not see the confirmation window, verify that you have the X Server running on the workstation, and the correct IP address to the workstation.

NOTE: You can also run the xband4 program that will “test” the network bandwidth by prompting you to type 100 characters and indicate an approximate number of users that can be supported on your network.

**IMPORTANT: Do not continue with the installation until you have confirmed connectivity.**

7. Run the install program:

- From the OMVS session, run the install program with the following command:

```
./vsinst
```

- Follow the instructions issued by the install program. When the installation is complete, close Visual SlickEdit (“File,” “Exit”) and leave superuser mode.

8. Run Visual SlickEdit:

- Log on to OMVS as a normal user (non-superuser) and start Visual SlickEdit.
- See the readme.txt file on the distribution CD for options on starting Visual SlickEdit from OMVS, or the “Configuring X Servers Technical Note” for information on client startup of Visual SlickEdit.

## Running Visual SlickEdit for OS/390 or z/OS

Visual SlickEdit runs on the S/390 or zSeries host, while its graphical user interface is displayed on a remote client running X Windows.

1. From a UNIX System Services (USS) command prompt, set the DISPLAY environment variable to the name (or IP address) of the remote client as follows:

```
DISPLAY=remote_client_name:0.0  
export DISPLAY
```

NOTE: You can place the above commands in your "\$HOME/.profile" log on script so you do not need to type these commands each time you log on.

2. If you are on a PC client that is NOT running UNIX, the PC client must be running an X Window server such as Netsarang Computer Xmanager, Hummingbird Exceed or WRQ Reflection X. The X server must be running prior to starting Visual SlickEdit on the S/390 host.
3. If the client is running UNIX (for example, Linux or Solaris SPARC), grant access to the X server by typing in one of the following commands:

To grant access to the specific S/390 host:  
**xhost +<hostname or IP address of S/390 host>**

To grant access to any host:  
**xhost+**

4. From a UNIX System Services command prompt, type "<path>vs&" to run Visual SlickEdit where <path> is the directory containing the vs executable (default is /usr/lpp/vs/vs/bin/).

NOTE: You can also start Visual SlickEdit from a TSO session by following the instructions in the file "<path>runvs.rexx".

## Configuring a Windows X Server

If you have dynamic IP addresses for your workstations see [“Handling Dynamic IP Addresses”](#) on page 15.

**IMPORTANT:** When you configure an X server, check the special mappings for the ALT keys. This prevents one or both ALT keys from being recognized by an X application. Ensure that one of the ALT keys is passed to the X application and that you know which one it is.

If you start Visual SlickEdit using the REXX exec under TSO, via a source code manager interface, or from a Telnet session, you must have the X server running on your workstation **first**. It is recommended that you place the X server in your Windows Startup folder.

When an X server is running on your PC, no window is created until the host application (i.e. Visual SlickEdit) sends the display information to the PC. The only indication that the X

server is running is the X server application icon in your task bar. Clicking on this icon will generally do nothing; right clicking will generally open a menu list.

Detailed instructions for configuring NetSarang Computer Xmanager and Hummingbird Exceed are shown below.

### NetSarang Computer Xmanager

#### *Installation and Configuration:*

1. Follow product installation instructions on your workstation.
2. Use the Xconfig program to set the following parameters:
  - Window tab
    - Multiple Window Mode
    - Background = X window background
    - Window Manager = Automatic Switch
    - Panning checked
  - XDM tab
    - Select "Do not use XDM (Passive)"
  - Option tab
    - Check all boxes and set "Backing Store" to "When Requested"
3. Run Xstart application to configure client startup.
4. Name: a name for the start, such as "Visual SlickEdit".
5. Host: the IP address of the host where Visual SlickEdit is to run.
6. Protocol: Choose the connect method. (On OS/390 the correct daemon must be running on USS.)
7. Username: (optional) enter your user name for host.
8. Password: (optional) enter the password for Username.
9. Execution Command: Enter the UNIX command to launch Visual SlickEdit.  
Example (OS/390) : **/usr/lpp/vslick/bin/vs +new -display \$DISPLAY &** will pass the IP address of the workstation to Visual SlickEdit.
10. Show Execution Progress and Show Execution Result: These check boxes allow monitoring of the application startup process. They should be checked for the first few starts and then unchecked.
11. Press SAVE. This creates a file holding the start parameters.

12. Shortcut...: Creates a shortcut to launch the application, which you should register on your desktop. Clicking the shortcut is the same as selecting “run” on the Xstart dialog box.
13. Run: Launches the Xserver, collects password (if not saved), and executes command line on host.

**Hummingbird Exceed***Installation and Configuration:*

1. Follow product installation instructions on your workstation.
2. Right click on the Exceed icon in the taskbar and select (“Tools”, “Configuration”).
3. Select the Input icon (keyboard icon).
4. Select ALT key mapping.

NOTE: It is recommended that you select “Right to Window, Left to X” or “To X”. This setting only applies when Visual SlickEdit has focus. ALT+TAB will continue to display the application list allowing switching between applications with either setting.

If an ALT key is not mapped to X, and you use that key for a Visual SlickEdit key sequence (such as ALT+1 to open include or copy members), the command will not be executed and there will be no indication or error.

5. Select Communications (satellite dish icon). Startup Mode should be Passive, Display Number should be 0.
6. Select Performance. Recommended settings are as follows:

System Resource Usage: 10-15

Check the following fields:

Draft Mode

Batch Requests

Save Unders

Max Backing Store = Always

Default Backing Store = None

7. Select Screen Definition (window icon): Window Mode = Multiple.
8. Under the Common Settings tab, clear the “Close Warning on Exit” check box. (This prevents Exceed from warning you that you may end your X client session each time you close a Visual SlickEdit dialog box.)

9. To start Visual SlickEdit from within ISPF using the REXX exec, OMVS, or source manager interface, place a shortcut for Exceed in your Windows Startup folder so Exceed will be launched when your workstation comes up. The shortcut should point to "C:\Program Files\Exceed.nt\exceed.exe" or to wherever you installed Exceed.

### *Client Startup*

This feature allows you to have an icon on your desktop that will launch an rlogin UNIX System Services session and automatically start Visual SlickEdit.

1. Ensure that your host will allow rlogin sessions.
2. Create a file called "C:\Program Files\Exceed.nt\Users\vsstart.xls" and type the following lines into the file. (You will need to change the entries shown in boldface.)

```
[Xstart]
Start Method=4
Program Type=0
User Id=P390a
Password=
Command=/vse/demo/vslick/bin/vs +new -display @d &
Info Prompt=0
Description=Start Visual SlickEdit
Host=192.168.0.18
Host Type=UNIX
Connect Timeout=1
Close Timeout=-1
Response Timeout=4
Prompt Timeout=2
Show Progress=0
Log Reply=0
UserId Prompt=login:|Username:
Password Prompt=password:
Shell Prompt=#|$|%|>|}
Optional Prompt1=
Optional Reply1=
Startup Menu=1
Override Default Port=0
Override Port=
```

ASSUMPTION: Each user has a home directory that is not the root directory. If this is not true, indicate the user's home directory by using the **-sc /u/userid** invocation option to set the configuration file path.

To edit this file using the Exceed interface:

1. Start Exceed.
2. Right-click on the Exceed icon in the taskbar.
3. Select ("Tools", "Client Startup", "New...").
4. Select ("File", "Open"), and type "**vsstart.xls**".

You can use Explorer to create a shortcut to the .xs file on your desktop. Double-click on the shortcut to launch the X server on the PC and execute the specified command (launch Visual SlickEdit) on the S/390 or zSeries system.

## Handling Dynamic IP Addresses

If you use the client startup scripts (vsstart.xs described in the previous section) to launch Visual SlickEdit, dynamic IP addresses are not a problem because the workstation IP address is included in the application start command line following the **-display** option.

If you launch Visual SlickEdit from a TSO session (using the REXX exec RUNVS supplied by SlickEdit, or a source code manager interface) the workstation IP address must be present in the dataset *TSOID.VSLICK.MISC(ENV)*.

VSSETDISP.REXX is a REXX exec that accepts a workstation IP address, finds the line **DISPLAY=** in *TSOID.VSLICK.MISC(ENV)*, and replaces the current IP address. If *TSOID.VSLICK.MISC(ENV)* does not exist, it is created. If **DISPLAY=** is not found, it is added.

### For Hummingbird Exceed:

You can automate the process of updating your IP address in *TSOID.VSLICK.MISC(ENV)*. Perform the following steps to automatically update your IP address every time your PC boots:

1. Create a file called C:\Program Files\Exceed.nt\user\vssetdisp.xs (or wherever Exceed resides) and type the following lines into the file. (You will need to change the entries shown in boldface).

```
[Xstart]
Start Method=4
Program Type=0
User Id=p390a
Password=
Command=/vse/demo/vslick/vssetdisp.rexx @d.0
Info Prompt=0
Description=Set VSLICK.MISC(ENV) DISPLAY value
Host=192.168.0.18
Host Type=UNIX
Connect Timeout=1
Close Timeout=10
Response Timeout=4
Prompt Timeout=2
Show Progress=1
Log Reply=1
UserId Prompt=login:|Username:
Password Prompt=password:
Shell Prompt=$|%|>|#|}
Optional Prompt1=
Optional Reply1=
Startup Menu=1
Override Default Port=0
Override Port=
```

NOTE: You can change Show Progress=1 to 0 after a test ensures the process is working correctly. This will reduce the feedback you see during the process.

2. Create a shortcut to this file and place it in your Windows Startup folder so it executes when you boot Windows. You will be prompted for your USS password.

NOTE: You can launch the shortcut at any time to test the process.

## Uninstalling Visual SlickEdit

### Windows Platforms:

Run the vsuninst.exe program in the "\\vslick\\win" directory.

### UNIX Platforms:

Delete the /usr/lib/vslick directory and everything under it.

### OS/390 Platforms:

Delete the /usr/lpp/vslick directory and everything under it.

## Upgrading from a Previous Version

This chapter provides instructions for upgrading your existing version of Visual SlickEdit to a new version. If this is your first installation of Visual SlickEdit please refer to “Installing Visual SlickEdit for the First Time” on page 5.

The only difference between an installation and an upgrade is that for an upgrade you typically install the new version on top of the old version so that your configuration changes are transferred.

### Upgrading from Visual SlickEdit 5.0 or Later

Users’ configurations are automatically transferred to a newly installed version of Visual SlickEdit when they run the new version.

### Upgrading from Visual SlickEdit 4.0 or Earlier

#### **Windows Platforms:**

All users who want their configuration changes to be transferred to the new version of Visual SlickEdit need to perform the following steps:

1. Run the previous version of Visual SlickEdit.
2. Click "List Source..." on the Configuration dialog box (Other, "Configuration") to list Slick-C source for dialog box templates and other configuration changes.
3. Install Visual SlickEdit on top of the previous installation.

Your previous configuration will be transferred when you run the new version.

#### **UNIX and OS/390 Platforms:**

Users’ configurations are automatically transferred to a newly installed version of Visual SlickEdit when they run the new version. If users see a message indicating that they need to delete an old local state file, then the binary state file format has changed. Deleting this file will not cause configuration changes to be lost, since all users have source files representing their configuration changes which will be executed when they run the new version.

## Converting SlickEdit 2.3/2.4 Macros and Configuration

To convert your SlickEdit Text Mode Edition configuration changes to Visual SlickEdit, perform the following steps:

1. Install Visual SlickEdit into a different directory than SlickEdit 2.3/2.4.
2. Run the **list\_source** command from the Configuration menu in SlickEdit 2.3/2.4 to list the macro source for changes you have made. This will create a file called “userdefs.e” (UNIX: “unixdefs.e”).
3. **Windows Platforms:**  
Copy the “userdefs.e” file to your local Visual SlickEdit configuration directory (determined by the user’s application data directory or the Visual SlickEdit VSLICKCONFIG environment variable if you have one) or to the macros directory (defaults to “c:\vslick\macros”). Change its name to “vusrdefs.e”.  
  
**UNIX Platforms:**  
Copy the “unixdefs.e” file to your local Visual SlickEdit configuration directory “\$HOME/.vslick”. Change its name to “vunxdefs.e”.
4. Run Visual SlickEdit and type **cleanup** on the command line. All options that are still present in SlickEdit 2.3/2.4 will be converted.
5. Save the resulting file created by **cleanup** and type **vusrdefs** on the command line to apply the changes to Visual SlickEdit.

To convert a macro source file you have written, perform the following steps:

1. Install Visual SlickEdit into a different directory than SlickEdit 2.3/2.4 if you have not already done so.
2. **Windows Platforms:**  
Copy the macro source files you want to convert to your local Visual SlickEdit configuration directory (determined by the user’s application data directory or the VSLICKCONFIG environment variable if you have one) or to the macros directory (defaults to “c:\vslick\macros”).  
  
**UNIX Platforms:**  
Copy the macro source files you want to convert to your local Visual SlickEdit configuration directory “\$HOME/.vslick”.

3. Run Visual SlickEdit.
4. Edit the macro source file in the Visual SlickEdit directory you want to convert.
5. Type **tconvert** on the command line.

The converter can convert about 95% of your macro source. Typical conversion problems are documented in the text file “convert.doc” which is located in the configuration directory (defaults to “c:\vslick” or “/usr/lib/vslick” for UNIX).

## License Manager

**Windows:** If you purchased a single user copy of Visual SlickEdit for Windows, the license manager is disabled and you do not need to read this section.

The license manager tracks users for various package licenses separately. For example:

- The STD license package includes support for the standard package (no Legacy Language support).
- The PKGA license package includes all support included with the STD package plus Legacy Language support for COBOL, CICS, High Level Assembler, PL/I and JCL.

By default, the license file will track users on a floating basis in the following format:

```
[Package1]
InvocationCount1 UserName1
InvocationCount2 UserName2
...

[Package2]
InvocationCount1 UserName1
InvocationCount2 UserName2
...
```

The package section name is the trailing alphabetic part of the license key you installed. For example: the package section name for the license key 1234567890-0700-WB123467-STD is “STD”. Every user who attempts to run Visual SlickEdit must at least have a license for STD or ALL, which includes support for the standard or base package.

Your license file will have a package section for each license key you received and installed. When you installed Visual SlickEdit you entered the license key(s) you received. You can also install other packages or update existing packages by installing new license keys later (see “[Adding More Users or Installing a License Key](#)” on page 21).

NOTE: If you purchased Visual SlickEdit prior to version 6.0, your license file will have no package sections. In this case, the entire contents of the license file is assumed to be for the ALL package.

**Windows:** The license manager file name is “**license.slk**” and is located in the c:\vslick\win\vslicklm directory by default.

**UNIX:** The license manager file name is “**.license.slk**” and is located in the /usr/vslick/bin/vslicklm/ directory by default.

**OS/390:** The license manager file name is “**.license.slk**” and is located in the /usr/lpp/vslick/bin/vsliclm/ directory by default.

*UserName1..UserName2* are the userids of the users who have a license for a particular package. The userids for *Package1* do not have to match the userids of *Package2*. The invocation count is not always present; if it is not, then that package section is licensed to a fixed set of users.

## Licensing a Fixed Set of Users

To license a package to a fixed set of users, edit the license file and enter a list of userids in that package section without an invocation count. The userids must start in column 1.

**IMPORTANT:** Under UNIX (not Windows, OS/390 or z/OS), userids are case-sensitive.

The following is a sample license file:

```
[STD]
1      ALICE
1      BOB
```

In this example, ALICE and BOB are currently running one instance of Visual SlickEdit. If CAROL were to run Visual SlickEdit, her name would automatically be added to the STD package section. This example requires that the license file allows reading and writing for all users of Visual SlickEdit.

The following is another sample license file:

```
[STD]
ALICE
BOB
CAROL
```

In this example, ALICE, BOB, and CAROL are the only users allowed to run Visual SlickEdit. This license file can be read-only because all package sections allow only a fixed set of users.

## Adding More Users or Installing a License Key

If you need to license more users for a particular product, contact SlickEdit Inc. for a new license code. If you are licensing an additional fixed set of users, see “**Licensing a Fixed Set of Users**” on page 21. New license keys require that you run the license manager utility program described below.

**Windows Platforms:**

Run “vssetlnw.exe” (under the Windows Start menu “Programs”, “Visual SlickEdit”, “Set License”). This program will guide you through setting the new license code which will enable your new license.

### UNIX Platforms:

Run “vssetln”. This program is located in the same directory as the “vs” executable (/usr/lib/vslick/bin by default).

```
./vssetln vs <licensecode>
```

### OS/390 Platforms:

Run “vssetln”. This program is located in the same directory as the “vs” executable (/usr/lpp/vslick/bin by default).

```
./vssetln vs2 <licensecode>
```

## Common Questions

The following are common questions and answers regarding installation.

### UNIX: “I can’t start the editor as both root and *userid*. What do I need to do?”

Set the VSLICKLICENSEONDISPLAY environment variable to 1. This will configure the license manager to store your DISPLAY location instead of your userid.

### Windows: “I can’t start the editor as both administrator and *userid*. What do I need to do?”

Set the VSUSER environment variable to your userid. Then, when you are logged in as administrator, Visual SlickEdit will use VSUSER as your userid instead of *administrator*.

## Common Errors

The following errors are commonly generated by the license manager. Take the action shown below each message to quickly resolve the error.

### “User XXX is not authorized to run Visual SlickEdit?”

This error can occur when a user starts Visual SlickEdit but has not been added to the fixed set of users licensed to run it. See “[Licensing a Fixed Set of Users](#)” on page 21.

### “You have not installed a license key for the following packages”

This error can occur when Visual SlickEdit is started and typically happens after reinstalling Visual SlickEdit. To fix the error, your system administrator needs to install the license key(s) for the packages listed (see “[Adding More Users or Installing a License Key](#)” on page 21).

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