

Sentinel System Driver for Windows Version 5.39.2 Release Notes

This document contains information on new features, changes in installation, and fixed and known problems for the 5.39.2 release of the Sentinel System Drivers for Windows. This revision of the Sentinel System Drivers contains minor feature changes and problem fixes.

Product Overview

The Sentinel System Drivers provide a communication path between your protected application and the Sentinel key. The driver allows multiple programs to all access the Sentinel key on a multi-tasking operating system.

This version of the driver contains an installation method using the new Windows Installer. This allows you to install the driver on any Windows 9x/NT/2000 system in the same way that other applications are installed.

Note: *If you are installing the driver for DOS, Windows 3.x, OS/2, or any non-Intel Windows NT machine, you must use the old installer. The old installer is located in the \Legacy directory of the driver media. Also, the old installer has been kept to allow developers that are not yet ready to migrate to the Windows Installer to keep their old installation methods. There are some limitations to doing this, however. The old installer does not support installing only the USB driver; you must use the new installer to do that.*

For additional information on installing the Sentinel System Drivers, and on including the driver installation in your own product installer, see the online guide *SentinelDriverInstall_Start.htm* included on the driver media, which may be viewed with any Web browser.

New Features in This Release

The following new features have been added since the last release of the Sentinel System Drivers:

1. The USB driver is Microsoft Windows Hardware Quality Labs (WHQL) certified for Windows 2000. The driver is unchanged from the 5.39.0 version but has undergone the WHQL tests to be certified for use on Windows 2000 operating systems. This allows for Windows 2000 Logo compliance for applications that use the Sentinel SuperPro USB hardware keys.
2. There have been some changes to the merge modules, including some new custom actions. These are fully documented in the online guide, *SentinelDriverInstall_Start.htm*.

3. The Sentinel System Driver installer and merge modules pass all the Microsoft ICE (Internal Consistency Evaluation) tests. Passing these tests is required for Windows 2000 logo compliance. Although the installer is not Windows 2000 logo compliant, when the merge modules are used in another installer, they will not cause the installer to fail due to ICE tests.
4. The merge module file names had spaces in them which caused them to fail Microsoft's Internal Consistency Evaluation (ICE) tests. Thus, the merge modules had to be renamed to conform to this standard. This may require re-adding the merge modules to your installation project if you are using them. It may be possible to just rename the modules back to their original filenames, depending on your installer package.

Problems Corrected in This Release

The following problems are fixed that existed in the 5.39 release:

- In version 5.39.0, many customers experienced a pop-up message displaying “Installation Failed.” This generally meant the USB portion of the install had not completed successfully. This has been fixed.
- Version 5.39.0 would only install files to its default installation directory. It can now be installed to any drive. Since this is a driver, however, it should always be installed to a local hard drive that is always available. Logically, the best drive to use is your C: drive.
- Corrections have been made to the merge module documentation. Also, the documentation has been extended to give more examples of how to use the merge modules.
- Several customers had trouble installing the driver on non-English machines. This issue was related to other installation problems with the USB driver. It has been fixed and has been tested on both Western and Eastern systems. The driver installation directory name must not contain double-byte characters, but will otherwise install on these systems.

If you encountered a problem in the last release this is not listed above, please contact Technical Support for information on the resolution of that problem. See “Technical Support Contact Information” on page 4.

Operating Systems and Devices Supported

The Sentinel System Drivers support Sentinel Pro, Sentinel C-Plus, Sentinel SuperPro, Sentinel SuperProNet, NetSentinel, and SentinelScribe on Microsoft Windows NT (Intel, Alpha, PowerPC), Windows 9x, Windows 2000, Windows 3.x (IBM, NEC, FMR), and OS/2 operating systems. This product has been localized for English only.

Known Problems in This Release

Here is a list of known problems with the Sentinel System Drivers 5.39.2 release:

- The Legacy installer cannot install just the USB driver. It installs only the parallel driver, or both the parallel and USB driver.
- The Legacy installer may not always correctly update the USB driver on a system where the USB driver is already installed. Updating the USB driver may require a manual update via the device manager. This only occurs in Windows 2000.

- When installing the driver on a system that uses a double-byte language, the install directory name cannot contain double-byte characters. The install directory should only contain ASCII characters.
- Microsoft WHQL certification only applies only to the USB driver. Microsoft only certifies Plug 'n Play drivers and the parallel port devices are not Plug 'n Play.
- USB is no longer supported on Windows 95 systems. Because older driver versions supported USB, it may still work; however, it has not been tested.

If you encounter a problem in this release that is not listed above, please contact Technical Support. See “Technical Support Contact Information” on page 4.

Installation Instructions

This section contains information on installing the Sentinel System Drivers.

Note: *When you run the setup.exe program to install the driver, it will automatically update your version of the Windows Installer if necessary. It will not provide any prompts before doing this. If you are not sure you want to update the Windows Installer, do not run this program.*

1. Place the driver CD in the computer and it should automatically run the installation program. Otherwise, run *setup.exe* from the root directory of the driver media.

If you do not have the correct version of the Windows Installer, it will automatically be installed for you.
2. If setup detects an older version of the Sentinel System Driver, you will be prompted to confirm the upgrade. The older version is uninstalled immediately after you confirm the upgrade. If you cancel out of the installation after this, the older version will have been uninstalled.
3. Select either **Complete** or a **Custom** installation. **Complete** will install both the parallel and USB driver.
4. If you select **Custom**, you can choose whether to install drivers for parallel, USB, or both. Keep in mind that if your operating system does not support USB, the installer will not install it even if you select it.
5. Continue with the installation and select **Install**.
6. Depending on the operating system and the configuration of the computer, you may be prompted to reboot.

Modification/Removal Instructions

1. Go to the Control Panel from the **Start** menu.
2. Select **Add/Remove Programs**.
3. Look for **Sentinel System Driver** and select it.
4. The installer will allow you to modify, repair, or remove the installation; select which option you would like and follow the instructions.

5. If you select **Modify**, you can add or remove the parallel or USB driver later.
6. Depending on the operating system and the configuration of the computer, you may be prompted to reboot.

Installation Options

The Sentinel System Driver Installer offers many different command-line options to control the installation. This allows developers to install the driver on their end users' systems without prompts. For more information on these options, refer to the online guide, *SentinelDriverInstall_start.htm*.

Merge Modules

The driver contains three merge modules which will allow you to “merge” the Sentinel System Driver installation into your own package. This can only be done if you are using a Microsoft Windows Installer package. For more information on doing this, refer to the online guide, *SentinelDriverInstall_start.htm*.

The online manual contains information on Sentinel System Driver installation. We discuss how to install the driver using the Windows Installer that was released with Windows 2000, which supports installation on all Windows platforms back to Windows 95. We also discuss how to use supplied merge modules to seamlessly integrate driver installation into your own product installation.

Technical Support Contact Information

Rainbow Technologies is committed to supporting the Sentinel System Drivers. If you have questions, need additional assistance, or encounter a problem, please contact Rainbow Technologies Technical Support using one of the methods listed in the following table:

Rainbow Technologies Technical Support Contact Information

Corporate Headquarters North America and South America	
	Rainbow Technologies North America
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	Rainbow Technologies (Australia) Pty Ltd.
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