

Tech Note 336**Supporting USB Hardware Keys on FactorySuite A²™ Products**

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Introduction

Wonderware® recently announced that it was supporting USB hardware keys on **FactorySuite A²** products.

However, not all FactorySuite products support USB hardware keys right out of the box.

The following document describes the procedures for determining whether your system is ready to support using a USB key or whether you need to upgrade the license system driver. Instructions for upgrading the driver are included **below**.

Determine if You Have the Correct Version of the Sentinel.sys Driver

Use the following steps to determine whether you have the correct driver.

1. Launch Windows® Explorer.
2. Click the **Search** button.
3. Search for **Sentinel.sys** (Figure 1 below):

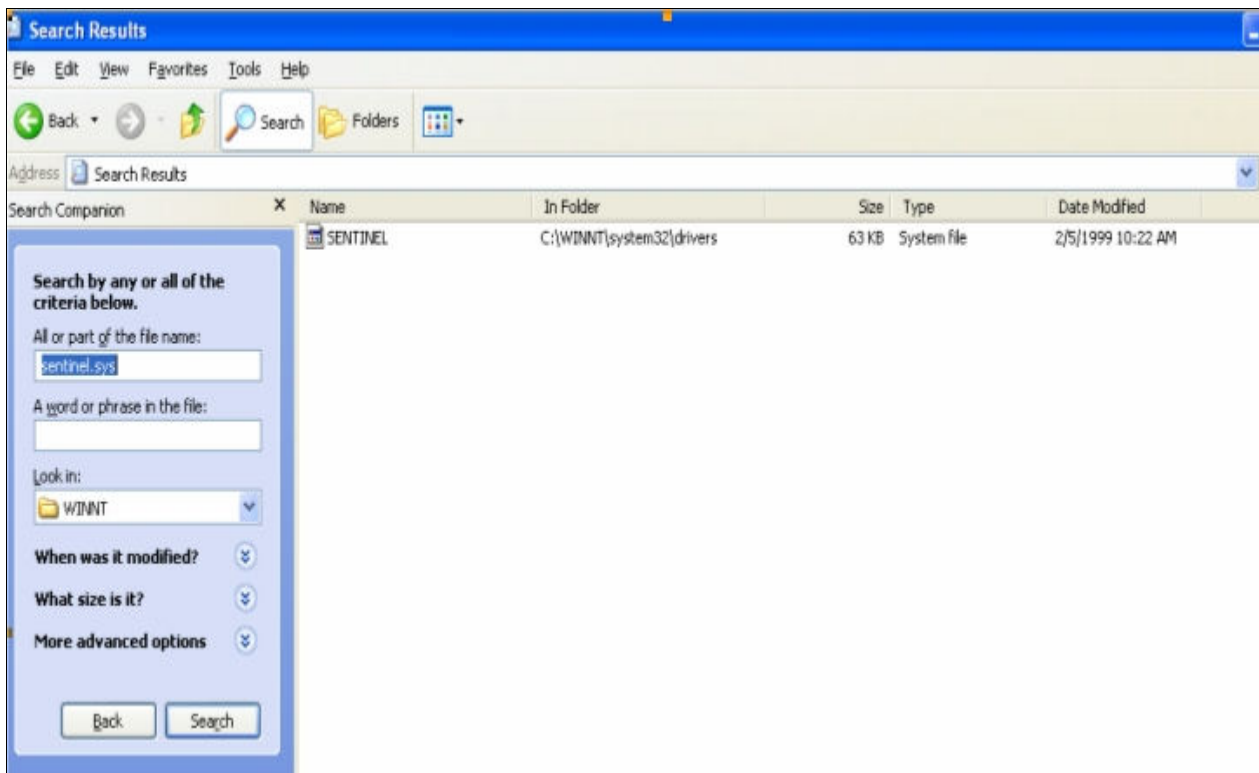


FIGURE 1: SEARCH FOR SENTINEL DRIVER

4. Right click on sentinel.sys and select **Properties** from the sub-menu.
5. Select the **Version** tab (Figure 2, below):

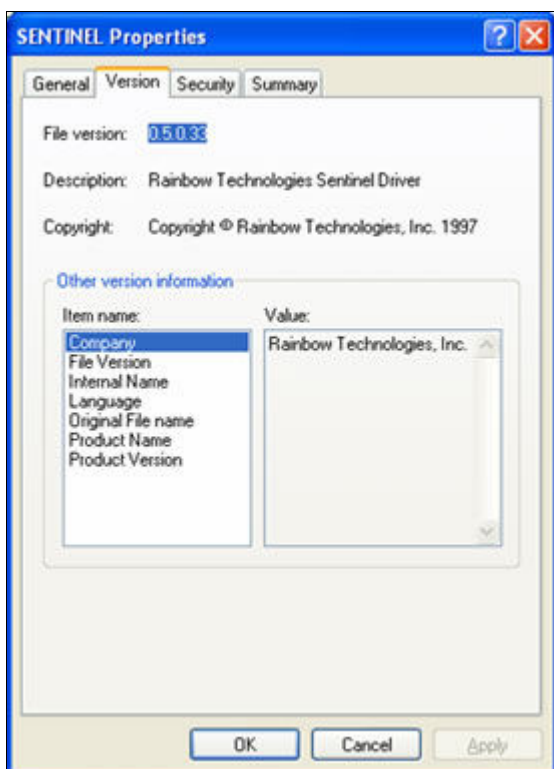


FIGURE 2: VERSION TAB

You should have either version **5.0.33** or version **5.41.x**.

Version 5.41.x of the sentinel driver supports USB hardware keys.

Note: If you have version 5.0.33, as shown in the previous figure, you will need to update the driver using the instructions in **Part 2** of this Tech Note.

If you have an older version of the driver, please contact your Certified Wonderware Support provider for more information.

Upgrading the Sentinel Driver to v5.41.1

1. To upgrade the Sentinel driver, you must download the package from the Rainbow web site at:

<http://www.rainbow.com>

2. Click the **Support/Downloads** link.

For older systems you should use the non-MSI installer link:

Sentinel System Driver 32 bit (legacy) non-MSI Installer 5.41.1

3. Click on the link and select the **Open** option.

This will execute the Winzip Self extractor program to unzip the correct files.

4. Click **Unzip** and the files will be unzipped to the following sub-directory:

```
C:\Program Files\Rainbow Technologies\Sentinel System  
Driver
```

5. Run the Setup program to install the new driver.

Some users may experience problems using the non-MSI installer version of the driver due to security settings or OS limitations. If you do get warnings or have problems, try the MSI installer version instead.

Sentinel System Driver 32 bit MSI Installer v5.41.1

1. Select the **Open** option to install the new sentinel driver. Follow the on-screen prompts and accept the defaults. Both installer programs install the software to the same place.
2. Install the USB key and allow Windows to search for hardware. When Windows can not find the correct driver it will ask you to specify a location where the driver can be found. That location is...

```
C:\Program Files\Rainbow Technologies\Sentinel System  
Driver\WIN_NT\I386
```

Once the driver has been installed it is recommended that you reboot your computer, but it is not required. The USB key should now be recognized by the licensing system.

The above procedure works for Windows® 2000, Windows 2003, and Windows XP. USB hardware keys are not currently supported on Windows NT or Windows 98.

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