

Reflex USB v.2 Windows 2000/XP

Reader Driver Install Notes

By downloading software from the SchlumbergerSema Reflex Readers Download web site, you agree to the terms and conditions of the Reader Driver License Agreement. Please read the agreement before downloading.

Package Contents

File	Description	Version
Rusb2w2k.sys	System file	1.42.0.1
Rusb2w2k.inf	Setup information	

Installation Instructions

NOTE *The Microsoft Smart Card Base Components are pre-installed on Windows 2000 and Windows XP systems; do **not** reinstall the Microsoft Smart Card Base Components.*

- 1 Download and extract the driver package in any available space on the computer (for example, in a *\temp* directory). This is a temporary location for the driver software that you will identify when you configure the Reflex USB v.2 smart card reader to use the driver.
- 2 If the Reflex USB v.2 smart card reader is not already connected to the computer, insert the Reflex USB v.2 smart card reader cable connector into an available USB port.
- 3 *If this is an initial installation*, Windows detects the Reflex USB v.2 smart card reader and begins searching for a suitable driver. If the operating system cannot find a suitable driver, you will be prompted to identify the location of the driver files. Using standard navigation buttons and dialog boxes, specify the directory into which you extracted the downloaded driver package.

NOTE *The operating system sometimes automatically configures the Reflex USB v.2 smart card reader to use a different driver from the one you downloaded. See “Overriding the Operating System’s Driver Selection,” on page 3 for instructions about checking the driver version and manually updating the driver if necessary.*

If this is an update of the driver, use the Update Driver feature (started from the Device Manager) to configure the Reflex USB v.2 smart card reader to use the new driver. See “Manually Updating a Driver,” on page 4 for instructions about performing this task.

The Reflex USB v.2 smart card reader is ready to use without rebooting the computer. The Smart Card Resource Manager automatically detects the reader’s change in status whenever you disconnect or reconnect it.

Installation Notes

Unsigned Driver Messages

If a driver is “unsigned” (indicating that certification of the driver by Microsoft was pending but not yet complete at the time of release), you might see one of the following warnings during driver installation or update:

- Digital Signature Not Found warning. Click the **Yes** button to complete the driver installation.
- On Windows XP systems, a Hardware Installation or Software Installation warning that the software has not passed Windows logo testing to verify its compatibility with Windows XP. Click the **Continue Anyway** button to complete the driver installation.

On Windows 2000 and Windows XP, if you are configuring a device to use an unsigned driver instead of a previously installed signed driver (for example, a signed driver installed with the operating system or with an earlier version of the SchlumbergerSema Cyberflex® Access™ Software Development Kit), you might see additional, similar warnings. Click **Yes** or **Continue Anyway** to complete the driver installation.

NOTE *Windows 2000 and Windows XP offer a System policy setting option to allow all device drivers to be installed without warnings, regardless of whether they have a digital signature. If you want to set this option, refer to the operating system's Help.*

Overriding the Operating System's Driver Selection

When Windows detects that a smart card reader has been added to your computer, the operating system tries to find the best driver for the device. Depending on characteristics of both new drivers and drivers that might already be installed on the computer, the operating system sometimes automatically configures the smart card reader to use a driver that is not the one that you installed.

You can confirm whether your smart card reader is using the correct driver by checking the driver version number, as outlined in “Checking a Driver Version” in this section.

If you discover that your smart card reader is configured to use an older driver, you can manually update the driver using the instructions outlined in “Manually Updating a Driver” in this section.

Checking a Driver Version

These are the steps to check the version number of the driver your smart card reader is currently configured to use:

- 1** To start the Device Manager on Windows 2000, select **Start → Settings → Control Panel**. Double-click **System**, click the **Hardware** tab, and then click the **Device Manager...** button.

To start the Device Manager on Windows XP, select **Start → Control Panel**. Double-click **System**, click the **Hardware** tab, and then click the **Device Manager...** button.

- 2** In the Device Manager, expand the Smart card readers device type, and then double-click the name of the device to open its Properties. In the device's Properties, click the **Driver** tab. Click **Driver Details...** to display driver information, including driver file name and version number.
- 3** Compare the version number displayed in the Driver File Details screen to the version number for the driver listed in the Package Contents section.

If the smart card reader is currently configured to use an older driver, you can manually update the driver using the instructions that follow.

Manually Updating a Driver

These are the steps to update the smart card reader driver:

- 1 To start the Device Manager on Windows 2000, select **Start → Settings → Control Panel**. Double-click **System**, click the **Hardware** tab, and then click the **Device Manager...** button.

To start the Device Manager on Windows XP, select **Start → Control Panel**. Double-click **System**, click the **Hardware** tab, and then click the **Device Manager...** button.

- 2 In the Device Manager, expand the Smart card readers device type, and then double-click the reader device to open its Properties.
- 3 In the device's Properties, click the **Driver** tab, and then click the **Update Driver...** button. The Upgrade Device Driver wizard (on Windows 2000) or Hardware Update (on Windows XP) wizard is launched.
- 4 On Windows 2000, in the Upgrade Device Driver wizard, select "Display a list of the known drivers for this device so that I can choose a specific driver." On Windows XP, in the Hardware Update wizard, select "Don't search. I will choose the driver to install."
- 5 In the Select a device driver screen, click **Have Disk ...**, and then navigate to the directory into which you extracted the downloaded driver files.
- 6 In the Select a Device Driver window, select the new device driver from the list, and click **Next**.

You might see warnings that you are about to install an unsigned driver or that you are about to install an unsigned driver over a signed driver. Click **Yes** or **Continue Anyway**.
- 7 Follow screen instructions to complete updating the driver. If you need more information about using the wizard to complete this task, refer to the operating system's Help.

The smart card reader is ready to use without rebooting the computer.

Known Problems and Limitations

Incompatibility between specific Cyberflex Access 32K v4 cards and Reflex USB v.2 readers

Cyberflex Access 32K v4 cards with answer to reset (ATR) value 3B76180000009C11010202 can fail during long card operations in Reflex USB v.2 smart card readers. See Technical Bulletin 212656 for additional information.

Multiple Event Viewer messages

The Event Viewer logs display multiple spurious messages related to the Reflex USB v.2 smart card reader. These messages, which are related to card state, are being investigated and can be ignored.

Reflex USB v.2 reader driver intermittently unresponsive

On Windows 2000 and Windows XP systems, the Reflex USB v.2 smart card reader might intermittently stop responding on systems with specific power management schemes. If the Reflex USB v.2 smart card reader becomes unresponsive, unplug and then reattach the reader.

Additional Reader Documentation Resources

For information about installing the reader hardware and troubleshooting reader installation or operation problems, see the *Reflex USB v.2 Reader Installation Guide*, available from the Reflex Reader Technical Support website, www.reflexreaders.com/Support/support.html.

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