



**Datacard® SR200 & SR300 Card Printers and
LM200 & LM300 Laminators**

Installation Guide

March 2014

Part No. 527407-001, Rev. A

Notice

Please do not attempt to operate or repair this equipment without adequate training. Any use, operation or repair you perform that is not in accordance with the information contained in this documentation is at your own risk.

These products conform to regulatory requirements as specified in North America, Europe, and Asia. Refer to “[Compliance Statements](#)” on [page iii](#) for more information.

Trademark Acknowledgments

Datacard is a registered trademark and service mark of DataCard Corporation in the United States and other countries.

MasterCard is a registered trademark of MasterCard International Incorporated.

Visa is a registered trademark of Visa International Service Association.

Adobe and Reader are registered trademarks of Adobe Systems Incorporated.

Windows is a registered trademark of Microsoft Corporation.

All other product names are the property of their respective owners.

Proprietary Notice

The design and information contained in these materials are protected by US and international copyright laws.

All drawings and information herein are the property of DataCard Corporation. All unauthorized use and reproduction is prohibited.

Datacard Group

11111 Bren Road West
Minnetonka, MN 55343-9015
Phone: 952-933-1223
Fax: 952-933-7971
www.datacard.com

Compliance Statements

Liability Statement

The WARNING and CAUTION labels have been placed on the equipment for your safety. Please do not attempt to operate or repair this equipment without adequate training. Any use, operation or repair in contravention of this document is at your own risk.

Safety

All Datacard® products are built to strict safety specifications in accordance with CSA/UL60950-1 requirements and the Low Voltage Directive 2006/95/EC.

Therefore, safety issues pertaining to operation and repair of **Datacard®** equipment are primarily environmental and human interface.

The following basic safety tips are given to ensure safe installation, operation and maintenance of **Datacard®** equipment.

- Connect equipment to a grounded power source. Do not defeat or bypass the ground lead.
- Place the equipment on a stable surface (table) and ensure floors in the work area are dry and non-slip.
- Know the location of equipment branch circuit interrupters or circuit breakers and how to turn them on and off in case of emergency.
- Know the location of fire extinguishers and how to use them. ABC type extinguishers may be used on electrical fires.
- Know local procedures for first aid and emergency assistance at the customer facility.
- Use adequate lighting at the equipment location.
- Maintain the recommended temperature and humidity range in the equipment area.

Regulatory Compliance

Notice for USA (FCC notice)

This equipment has been tested and found to comply with the limits for Class A computing devices, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy. If this equipment is not installed and used in accordance with this instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice for Canada

This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada RSS standard exemptes de licence(s). Son fonctionnement est soumis aux deux conditions suivantes: 1) ce dispositif ne peut causer des interférences, et 2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

Notice for Europe

The EU Declaration of Conformity can be found on **Datacard.com**

We hereby certify that this printer complies with EMC Directive 2004/108/EC, R&TTE Directive 1999/5/EC, and the EU RoHS Directive EU Directive 2011/65/EC. This printer conforms to Class A of EN 55022 and to EN 301 489-5. Operation of this equipment in a residential environment may possibly cause interference. In the event of interference, the users, at their own expense, will be required to take whatever measures are necessary to correct the problem.

Notice for China (Simplified Chinese)

警告

此为 A 级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对干扰采取切实可行的措施。

Notice for Taiwan (Traditional Chinese)

警告使用者：
這是甲類的資訊產品，在居住的
環境中使用時，可能會造成射頻
干擾，在這種情況下，使用者會
被要求採用某些適當的對策。

Notice for Japan

Japanese Voluntary Control Council for Interference (VCCI) class A statement

この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A

Korea Communications Commission (KCC) statement

이 기기는 업무용(A급)으로 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

California Proposition 65 Compliance

WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. *Wash hands after handling.*

Revision Log
**Datacard® SR200 & SR300 Card Printers and
LM200 & LM300 Laminators Installation Guide**

Revision	Date	Description of Changes
A	March 2014	First release of this document

Table of Contents

Chapter 1: Planning the Installation	1
About This Manual	1
Related Documentation	1
Whom to Call for Assistance	2
Unpacking the Printer and Laminator	2
Packing Lists	2
Unpacking the Printer	3
Unpacking the Laminator	3
Choosing a Location	4
Operating Environment	4
Security	4
Ventilation Clearance	5
Printer Options	5
Supported Operating Systems	6
Installing More Than One Printer	6
Installation Requirements	6
Installation Overview	7
USB Connection	7
USB Installation Overview (no Smart Card)	7
USB Installation Overview (with Smart Card)	8
Network Connection	9
Network Installation Overview	9
Chapter 2: Installing the Hardware Components	11
Installing the Components	11
Connecting the Laminator	11
Installing the Card Hopper	12
Installing the Card Stacker	12
Card Stacker on SR200 or SR300 Printer	12
Card Stacker on Optional Laminator	13
Plugging in the Power Cord(s)	13
Connecting the Data Cable	14
Connecting the USB Cable	15
Connecting the Network Cable	15
Chapter 3: Installing the Smart Card Driver	17
Downloading and Installing the Gemalto Contactless Driver	17
Downloading and Installing the Duali Contactless or Duali Contact/Contactless Driver ...	19
Installing the Identive Dual Contact/Contactless Driver	20
Installing the Identive Driver Automatically	20
Downloading and Installing the Identive Driver Manually	21
Installing the iCLASS/pcProx Driver and Support Files	24

Installing the iCLASS Reader	24
Installing the pcProx Reader	25
Chapter 4: Installing the USB Printer Driver	27
Installing with a USB Connection	27
Windows 7 Installation	27
Windows XP Installation	35
Windows Vista or Windows 2000 Installation	44
After Installing the USB Printer Driver	53
Chapter 5: Installing the Status Monitor	55
Installing the Status Monitor	55
Setting the Unit Number, Printer Name, and Connection	59
Chapter 6: Network Installation	63
About Network Installation	63
Choosing How to Assign the Network Address	64
IP Security Using a Printer Certificate (IPSec)	64
IP Security Using a Preshared Key	66
Installing the Network Printer Driver	68
Sharing a Printer on a Network Connection	76
Preparing to Share a Printer	76
Setting up Sharing	77
Chapter 7: Removing Printer Driver and Status Monitor	81
Removing the Printer Driver	81
Removing the Status Monitor	84
Updating the Printer Driver	85

Chapter 1: Planning the Installation



This chapter provides information about this *User's Guide*. It also contains information to help plan the installation of SR200 & SR300 card printers and optional LM200 & LM300 laminators.

About This Manual

This manual provides detailed instructions for installing the SR200 & SR300 card printers and the optional LM200 & LM300 card laminators.

- [Chapter 1: "Planning the Installation"](#)—Provides information about this manual, as well as background information needed to plan for printer and laminator installation.
- [Chapter 2: "Installing the Hardware Components"](#)—Provides instructions for unpacking and installing the hardware components, cables, and power cords of the printer and laminator.
- [Chapter 3: "Installing the Smart Card Driver"](#)—Contains procedures for installing the appropriate smart card driver. This is necessary only if the card printer is equipped with an optional smart card upgrade.
- [Chapter 4: "Installing the USB Printer Driver"](#)—Provides instructions for installing the USB printer driver onto the PC(s) used to create and print cards.
- [Chapter 5: "Installing the Status Monitor"](#)—Provides instructions for installing the Status Monitor onto the PC(s) used to create and print cards.
- [Chapter 6: "Network Installation"](#)—Describes how to install the network printer driver, how to configure the printer for use on a local network, and how to share a networked printer.
- [Chapter 7: "Removing Printer Driver and Status Monitor"](#)—Provides instructions for uninstalling the printer driver or Status Monitor from the PC. Instructions are included for updating the printer driver if a new version is released.

Related Documentation

Refer to the *Datacard SR200 & SR300 Card Printers and LM200 & LM300 Laminators User's Guide* for information about using the printer and laminator to create cards.

Refer to the *Datacard SR200 & SR300 Plug-in User's Guide* for information about using the card printer with Datacard ID software applications. The manual includes instructions for creating magnetic stripe encoding configurations.

Whom to Call for Assistance

If you work with a Datacard-authorized dealer, distributor, or value-added reseller, contact them for assistance. A value-added reseller provides the SR200 & SR300 card printers and LM200 & LM300 laminators as part of an overall system.

If any contents of the box are missing, contact your Datacard-authorized dealer, distributor, or reseller. If you purchased your printer directly from Datacard, contact the Datacard Customer Care Center in your region:

Americas	+1 800.328.3996 or 952.988.2316
Europe, Middle East, and Africa	+44 1489555627
Asia Pacific	+852 2821 0121

Make sure that you have the printer serial number, located on the back of the printer, and optional laminator serial number, when you call.

Unpacking the Printer and Laminator

Unpack the card printer and the laminator (if purchased) from their shipping cartons.



This manual describes the SR200 or SR300 printer and the LM200 or LM300 laminator. The instructions apply to both printers and both laminators, except when stated.

Packing Lists

The shipping carton for the card printer contains:

- SR200 or SR300 card printer
- Power cord
- Cleaning card
- Card stacker
- White gloves
- Tweezers
- SR200 & SR300 and LM200 & LM300 documentation shipping kit:
 - *Read Me First* document
 - Owner's Library CD-ROM
 - *SR200 & SR300 Card Printers and LM200 & LM300 Laminators Installation Guide*
 - Warranty
 - SR200 & SR300 Support (Plug-in) CD

The shipping carton for the laminator contains:

- LM200 or LM300 card laminator
- Joining plate
- Cleaning card
- Power cord
- Take-up core

You must provide these items or order separately:

- USB cable
- Network cable (if printer is to be used over a network)
- Ink ribbon
- Retransfer film
- Blank cards
- Cleaning kit



Refer to the *Datacard SR200 & SR300 Card Printers and LM200 & LM300 Laminators User's Guide* for part numbers and ordering information.

Unpacking the Printer



Caution: The card printer weighs approximately 27.6 pounds (12.5 kg) with options installed. Use care when removing the printer from the shipping container.

Remove the SR200 or SR300 card printer from the shipping carton. Remove all packing tape from inside and around the printer.



Save the shipping carton and packaging materials. They are required if you need to store, move, or return the printer for service. Replacements are not available.

Unpacking the Laminator



Caution: The laminator weighs approximately 17 pounds (8 kg). Use care when removing the laminator from the shipping container.

Remove the laminator from the shipping container. Make sure to remove all packing tape inside and around the laminator. Remove the protective cushion that protects both the heated roller and the platen roller.



Save the shipping carton and packaging materials. They are required if you need to store, move, or return the laminator for service. Replacements are not available.

Choosing a Location

The performance of the printer and optional laminator is strongly influenced by the installation location. Install the unit(s) in a location that meets the following criteria:

- Install the printer in a location that meets or exceeds ISO14611-1 Class 8 cleanliness standards. Using the printer in dusty locations may cause print blurring and printhead malfunctions.
- Power off the printer when printing is not being performed. Leaving power on for long periods without printing may allow fine dust to collect inside the printer, causing print blurring and causing dust to adhere to cards.
- Avoid locations susceptible to strong vibration or shock.
- Avoid locations exposed to direct sunlight.
- Avoid locations where there is a possibility of metal objects or other foreign material entering the printer.
- Avoid areas near walls with little ventilation. Refer to “[Ventilation Clearance](#)” on [page 5](#).
- Avoid unstable locations and angled surfaces.
- Avoid locations prone to static electricity, such as a carpeted room.
- Avoid areas near air conditioners, humidifiers, or heat sources that may cause condensation within the printer.

Operating Environment

Install the printer in an environment with the following recommended temperature and humidity range:

- Temperature: 59°–86°F (15°–30°C), or 63°–83°F (17°–28°C) if using peel-off (PO) or UV ink.
- Humidity: 35%–70%, non-condensing, or 35%–60% if using peel-off or UV ink.



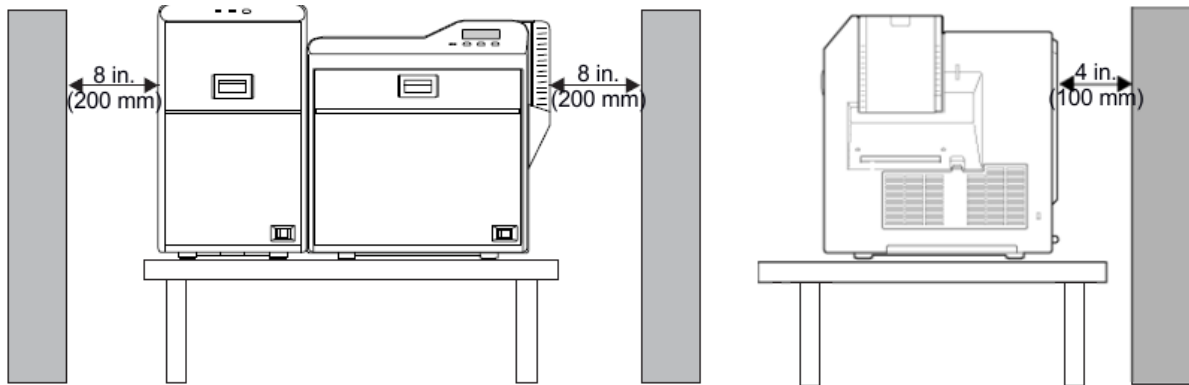
Caution: Using the printer in an environment with temperatures that are cooler than the recommended range can cause retransfer errors. Using the printer in an environment with temperatures that are warmer than the recommended range can cause errors such as card warping and wrinkling of the film.

Security

Both the SR200 & SR300 printers and the LM200 & LM300 laminators have slots for cable-type security locks. If you plan to use a cable lock, select a location that provides a secure place to fasten the cables.

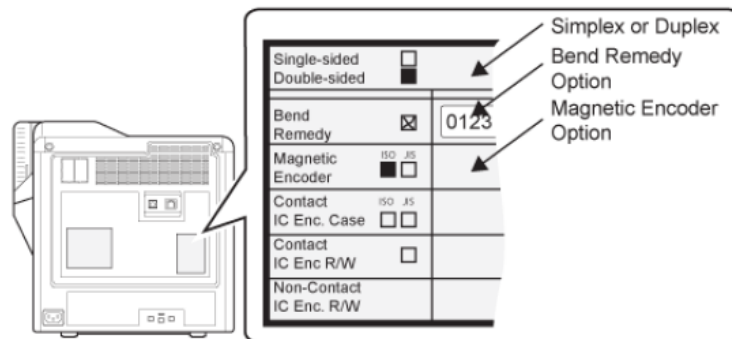
Ventilation Clearance

Ventilation holes are provided for the cooling fans at the bottom and sides of the printer, and at the back of the laminator. Install the printer and laminator so that the sides are at least 8 inches (200 mm) away from the surrounding wall. Keep the back of the units at least 4 inches (100 mm) away from a wall. Do not place any objects on top of the printer or laminator.



Printer Options

Printer options installed in the factory are marked on the options label at the back of the printer. Each option installed has a marked or filled square. For example, the following illustration is for a printer with duplex (double-sided), bend remedy, and magnetic encoder options.



The printer can have one of these factory-installed smart card reader options:

- Contact IC Enc/ R/W
- Duali Contactless
- Duali Contact/Contactless
- Gemalto® Contactless
- Indentive® Dual Contact/Contactless

The smart card option is set up for use with a USB data cable only. Network installation is not supported for smart card use. If smart cards are to be encoded, download and install the smart card driver before connecting the printer or installing the printer driver. Refer to [“Installing the Smart Card Driver”](#) on [page 17](#) to download and install the smart card driver.

Supported Operating Systems

The printer and printer driver can be installed on the following operating systems:

- Windows 7 (tested with Service Pack 1 installed)
- Windows Vista (tested with Service Pack 2 installed)
- Windows XP (tested with Service Pack 3 installed)
- Windows 2000 (tested with Service Pack 4 installed)

Installing More Than One Printer

Follow these guidelines to install more than one printer on a PC:

- You can install up to 10 card printers on one PC.
- You can install both SR200 & SR300 printers on the same PC.
- If you want both a network-connected printer and a USB-connected printer of the same type installed on the same PC, install the USB-connected printer first for best results.
- If you plan to install multiple printers of the same type on one or more PCs, assign the unit numbers and printer names using the Status Monitor and a USB connection. Each PC must use the unit number and printer name assigned to each printer.

Installation Requirements

Before installing the printer, make sure that you understand and follow these important points:

- If the printer has a smart card reader installed, you must install the smart card drivers first. Refer to [“Installing the Smart Card Driver”](#) on [page 17](#).
- Know the unit number assigned to each printer being installed. Refer to [“Setting the Unit Number, Printer Name, and Connection”](#) on [page 59](#).
- If you upgrade the operating system of your PC to Windows Vista or Windows 7, remove all SR200 or SR300 printer drivers before upgrading. Install the printer(s) again after the upgrade is completed.
- Contact your service provider for currently supported operating systems.



Caution: During installation, do not power on the printer until directed to do so.

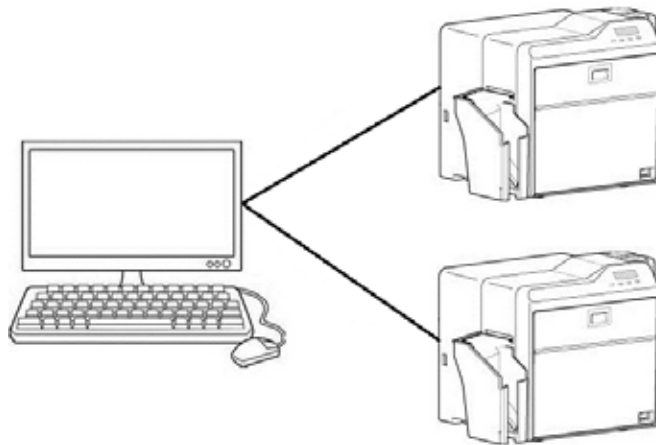
Installation Overview

This section provides an overview of the steps you will follow when installing the printer.

USB Connection

The simplest and most direct method of connecting the card printer to a PC is with a USB cable. With this method, the card printer is a local printer and only the connected PC can use it to print cards.

Note that two or more card printers can be connected to a PC, each with its own USB cable, as shown below:



The USB installation procedure varies, depending on whether the printer includes a smart card option. Use one of the following Overview sections to help you plan the steps needed to install your printer.



If your printer includes a smart card option, it must be connected to the PC with a USB cable. Network connection for smart card use is not supported by the SR200 & SR300 printers.

USB Installation Overview (no Smart Card)

Perform these steps to install your card printer with a USB connection when the printer *does not* contain a smart card option. Refer to Chapters 2, 4, and 5 of this manual for detailed instructions.

1. (Optional) Install ID software, such as Datacard® ID Works® identification software, onto the PC that will be used to design and print cards.
2. Physically install the printer and optional laminator:
 - a. Connect the laminator (if used) to the printer.
 - b. Install the card hopper.
 - c. Install the card stacker.

- d. Connect the power cord to the printer and to the laminator (if used). Power on both devices and then power off again.



Caution: Do not connect the USB cable to the printer and PC yet. The printer driver must be installed first to enable communication between the components.

- e. Install printing and laminating supplies (ink ribbon, retransfer material, laminator film cartridges, and cards).
3. Use the Installation CD to install the SR-CP printer driver onto the PC. (You will be instructed to connect the USB cable during this step.)
4. Use the Installation CD to install the Status Monitor onto the PC.
5. Power on the printer and configure the connection between the PC and the printer. If necessary, use the PC to assign the Datacard SR-CR retransfer printer plug-in to the printer.

USB Installation Overview (with Smart Card)

Perform these steps to install your card printer with a USB connection when the printer *does* contain a smart card option. Refer to Chapters 2–5 of this manual for detailed instructions.

1. (Optional) Install ID software, such as Datacard® ID Works® identification software, onto the PC that will be used to design and print cards.
2. Install the appropriate smart card driver onto the PC.
3. Physically install the printer and optional laminator:
 - a. Connect the laminator (if used) to the printer.
 - b. Install the card hopper.
 - c. Install the card stacker.
 - d. Connect the power cord to the printer and to the laminator (if used). Power on both devices and then power off again.



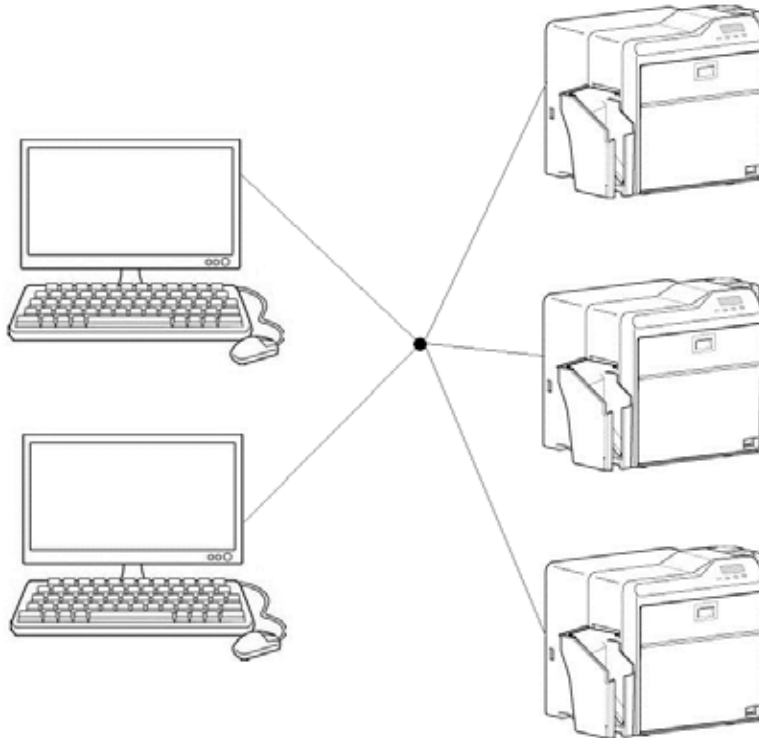
Caution: Do not connect the USB cable to the printer and PC yet. The printer driver must be installed first to enable communication between the components.

- e. Install printing and laminating supplies (ink ribbon, retransfer material, laminator film cartridges, and cards).
4. Use the Installation CD to install the SR-CP printer driver onto the PC. (You will be instructed to connect the USB cable during this step.)
5. Use the Installation CD to install the Status Monitor onto the PC.
6. Power on the printer and configure the connection between the PC and the printer. If necessary, use the PC to assign the Datacard SR-CR retransfer printer plug-in to the printer.

Network Connection

When a local network is available, both the card printer and the PC can be connected to the network. When a network connection is used, you can print cards from any PC connected to that network.

Each PC must have the design software used to create and print cards, must have the SR-CP printer driver and Status Monitor installed, and must be connected to the same network as the printer(s).



Network Installation Overview

Perform these steps to install your card printer to a network. Refer to Chapters 2, 4, 5, and 6 of this manual for detailed instructions.



Remember, use a USB connection if your card printer contains an optional smart card reader. Network connection for a smart card is *not supported* by the SR200 & SR300 printers.

1. (Optional) Install ID software, such as Datacard® ID Works® identification software, onto the PC that will be used to design and print cards.
2. Physically install the printer and optional laminator:
 - a. Connect the laminator (if used) to the printer.
 - b. Install the card hopper.

- c. Install the card stacker.
- d. Connect the power cord to the printer and to the laminator (if used). Power on both devices and then power off again.



Caution: Do not connect the USB or network cable to the printer and PC yet. The printer driver must be installed first to enable communication between the components.

- e. Install printing and laminating supplies (ink ribbon, retransfer material, laminator film cartridges, and cards).
3. Use the Installation CD to install the SR-CP printer driver onto the PC. (Both the network and USB cables will be connected during this step.)
 4. Use the Installation CD to install the Status Monitor onto the PC.
 5. Power on the printer and configure the connection between the PC and the printer.
If necessary, use the PC to assign the Datacard SR-CR retransfer printer plug-in to the printer, and to set up the unit number and printer name. Set the default interface value to **Network**.
 6. Power off the printer and disconnect the USB cable. Use the network cable to connect the printer to your local network.
 7. Reinstall the printer driver using the network cable.
 8. Assign the printer's IP address, if necessary.
 9. Set up IP security, if needed, using either a printer certificate or a preshared key.
 10. Set up printer sharing, if desired.



Chapter 2: Installing the Hardware Components

2

This chapter provides step-by-step instructions for installing physical components, power cords, and cables of the SR200 & SR300 card printers and optional LM200 & LM300 laminators.

Installing the Components

Use the following procedures to connect the optional laminator to the card printer, and to install the card hopper and the card stacker to the printer or laminator.

Connecting the Laminator

Use the provided joining plate to connect the laminator (if used) to the card printer.



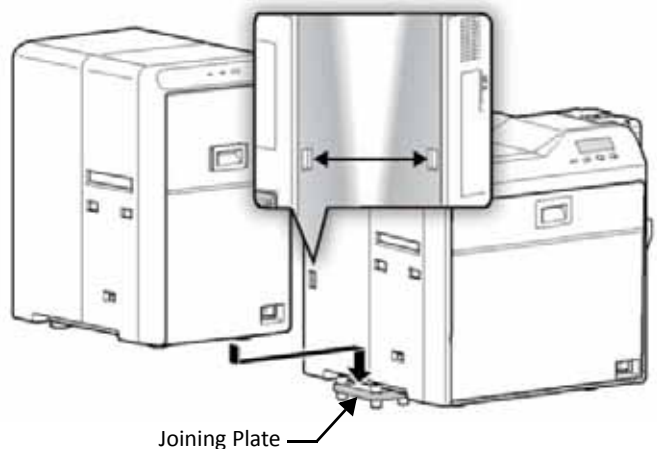
Make sure to install both units on a secure, level surface. Make sure the laminator and the printer fit securely into the joining plate holes.



Caution: Make sure that the power switch is turned off and the power cord is detached from the receptacle before connecting or disconnecting the laminator. Otherwise, electric shock, fire, or malfunction of the product might occur.


1. Place the printer on the work surface with the joining plate attached.
2. Mount the laminator over the holes on the joining plate.

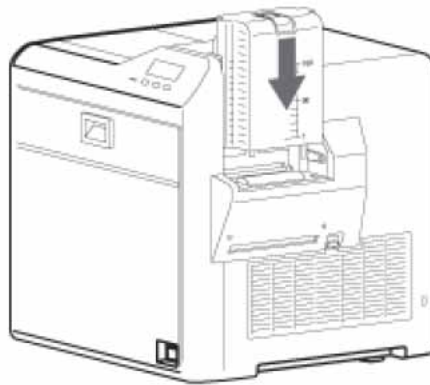
The infrared ports on the printer and laminator must be aligned for the laminator to work.



Installing the Card Hopper

1. If present, remove styrofoam packing foam from inside the card hopper.
2. Insert the card hopper hooks into the receptacle slots on the printer.
3. Slide the card hopper down until it clicks into place.

 The card hopper can hold up to 100, 0.030 inch (0.75 mm) thick cards.




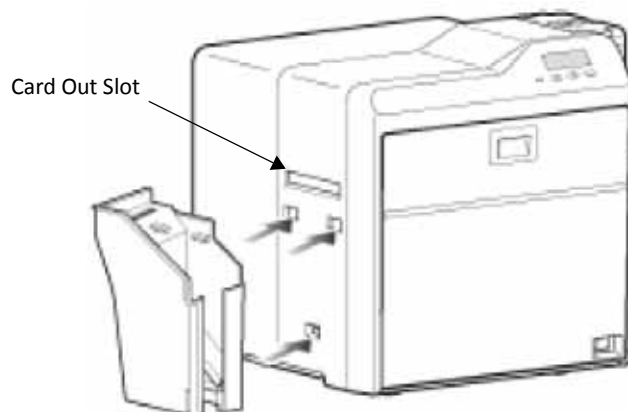
Installing the Card Stacker

As completed cards exit the printer or laminator, they are collected in the card stacker. Install the card stacker below the card out slot on the left side of the printer or the laminator (if used).

Card Stacker on SR200 or SR300 Printer

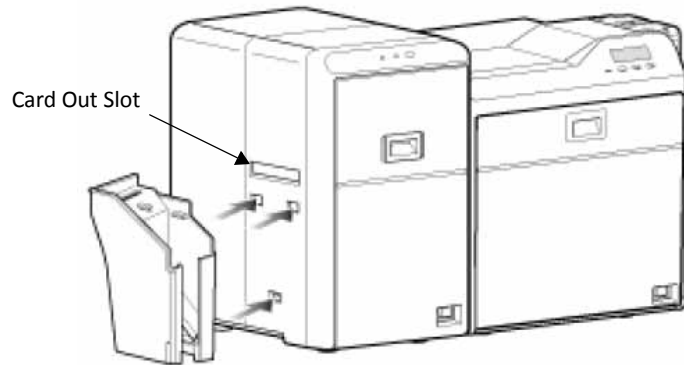
When no laminator is used, place the stacker tabs into the attachment slots on the side of the printer. Be sure to hang the card stacker on the attachment slots, not on the card out slot.

 The card stacker can hold up to 100 0.030 inch (0.75mm) thick cards.



Card Stacker on Optional Laminator

When an LM200 or LM300 laminator is installed, hang the card stacker on the laminator's card stacker receptacle. Be sure to hang the card stacker on the attachment slots, not on the card out slot.



Plugging in the Power Cord(s)

Use this procedure to connect the provided power cord to the printer, and to the laminator (if used).

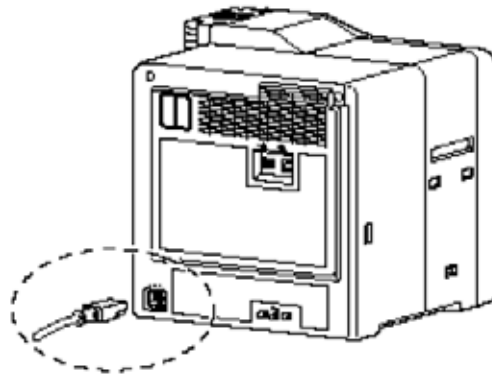


Warning: Always use a grounded power outlet that is not shared with other electrical equipment.

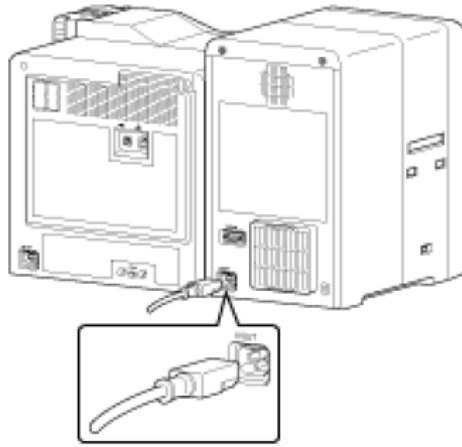
1. Verify the plug type. The power cords vary according to model and country of purchase.
2. Plug the power cord into the power receptacle at the back of the printer.



Caution: Use an Automatic Voltage Regulator (AVR) if there is a possibility of voltage fluctuations. Use an uninterruptible power source rather than an AVR if there is a possibility of frequent power loss.



3. If your system includes an LM200 or LM300 laminator, plug the provided power cord into the back of the laminator.




4. Plug the power cord(s) into the facility power source.
5. If this is the first time you are using the printer, power on the printer and laminator without installing supplies. Keep the power on for about 30 seconds, until an ink error or a film error occurs, then power off.



(The printer and optional laminator are shipped in transport mode. Ink ribbon and retransfer material, and laminator material cannot be installed in transport mode. Power on cancels transport mode and allows supplies to be installed.)

Connecting the Data Cable

Connect the USB or network data cable only when the printer driver installation instructions tell you to do so in Chapter 4 or Chapter 6.

-  For best results, connect only one data cable to the printer and PC before powering on the printer.

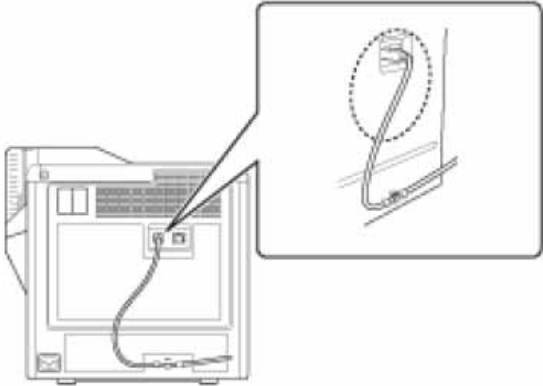
If the printer has been used previously, the type of connection displays on the printer LCD panel when the printer is powered on:

- The USB symbol is: 
- The network (LAN) symbol is: 

The default type of connection is Network. To set other connection values, refer to [“Setting the Unit Number, Printer Name, and Connection”](#) on page 59.

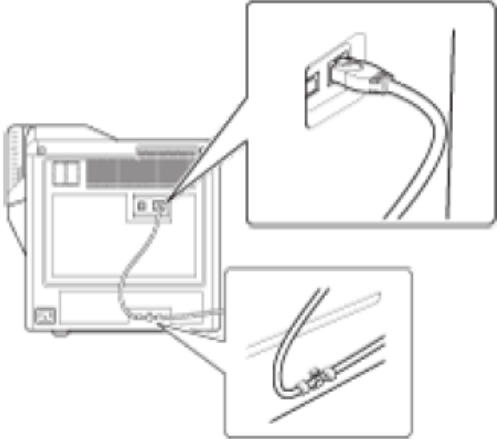
Connecting the USB Cable


To connect the card printer directly to a PC, connect a USB cable to the USB port at the back of the printer.



Connecting the Network Cable

To use the card printer with a network, connect a network data cable to the Ethernet port at the back of the printer.



 If your printer includes an optional smart card reader, use only a USB cable for the data cable. Network connection for encoding smart cards is not supported by the SR200 & SR300 card printers.



Chapter 3: Installing the Smart Card Driver

3

This chapter contains instructions for installing a smart card driver onto the PC. Follow one of the procedures in this chapter if your SR200 or SR300 card printer contains an optional smart card reader upgrade.

Your SR200 or SR300 card printer may contain one of these smart card reader upgrade options:

- Gemalto® Contactless
- Duali® Contactless or Contact/Contactless
- Identive® Dual Contact/Contactless
- iCLASS®/pcProx®



Caution: When installing a printer containing a smart card reader, use one of the following procedures to install the appropriate smart card driver *before* installing the printer driver in Chapter 4.



Driver installation may vary with operating system and other computer variables.

Downloading and Installing the Gemalto Contactless Driver



Use this procedure if your SR200 or SR300 card printer has the optional Gemalto contactless smart card reader installed.

1. Download the driver.
 - a. Using your web browser, go to <http://support.gemalto.com>.
 - b. Click **Download reader drivers**.
 - c. Select **PC-Link Readers > IDBridge CT30 (PC-USB TR and PC TWIN)**.
 - d. From the list, select your operating system, language, and architecture (32-bit or 64-bit). Also, select drivers for a USB connection, not a serial connection.

For example, for English-language Windows Vista 32-bit, USB connection, select the following:



Windows: 8, 7, Vista, XP, 2000
Windows Server 2012, 2008 R2

English Version

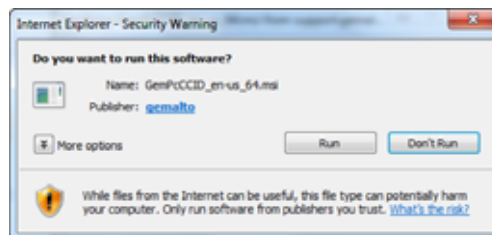
Description	Package	Date	Rev.
 PC/SC drivers This is the MSI installer of the Windows 32bit Microsoft certified drivers.	MSI 32bit	24/04/2013	4.1.2.1
 PC/SC drivers This is the MSI installer of the Windows 64bit Microsoft certified drivers.	MSI 64bit	24/04/2013	4.1.2.1

Windows: Vista - XP - 2000, Windows Server

English Version

Description	Package	Date	Rev.
 PC/SC drivers (Serial) for Windows Vista 32 and Vista 64 This ZIP package contains both 32bit and 64bit Microsoft certified drivers.	ZIP 32bit 64bit	05/24/2007	3.1.0
 PC/SC drivers (Serial) for Windows 2000, XP, Server 2003 This is the MSI installer of the Windows 32bit Microsoft certified drivers.	MSI 32bit	06/30/2006	1.0.0

- e. Click the file to download it to your PC.
2. Install the driver.
 - a. Click **Run** to start the smart card driver installation.



- b. Follow the prompts to install the smart card driver. The operating system might display a pop-up during installation, or when installation is complete.

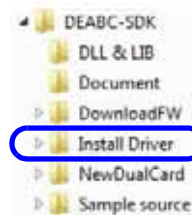


- c. Restart Windows after installing the smart card driver.

Downloading and Installing the Duali Contactless or Duali Contact/Contactless Driver

Use this procedure if your SR200 or SR300 card printer has an optional Duali contactless or contact/contactless smart card reader installed.

1. Using your web browser, go to <http://datacard.com>.
2. Click **Support & Drivers > Drivers & Downloads**.
3. Enter the model of your printer and click **Go**.
4. In the search results for the product, select **Drivers & Downloads** for the model you selected.
5. Under the **Smart Card Driver** heading, right-click and save the .zip file attachment.
6. Click the **DEABC-SDK.zip** file to expand the contents, then open the **Install Driver** folder. Click to select your operating system architecture (InstallDriver32bit.msi or InstallDriver64bit.msi).

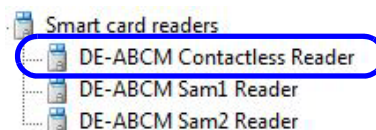


7. Follow the prompts to install the driver. The operating system might display a pop-up during installation, or when installation is complete.
8. Restart Windows after installing the smart card driver.
9. After the Duali smart card reader has been installed, the driver displays in **Device Manager** under **Universal Serial Bus controllers**.



The Duali smart card reader is recognized from the USB device list when it is in Vendor mode. Vendor mode means that you can use Duali's command/API and DualCard with full-function capability (DualCardDll.dll). Refer to the API/protocol specification in the Document directory.

After the Duali smart card reader has been installed, the driver also displays in **Device Manager**, now under **Smart card readers**.



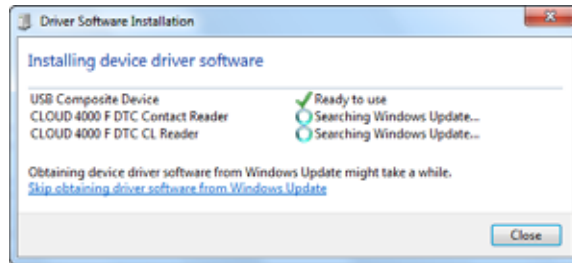
Installing the Identive Dual Contact/Contactless Driver

The Identive Dual Contact/Contactless smart card driver installation starts automatically when the SR200 or SR300 card printer is connected to your PC. You need to use a web site to install the driver only if the installation doesn't start up automatically. (Refer to “[Downloading and Installing the Identive Driver Manually](#)” on page 21.)

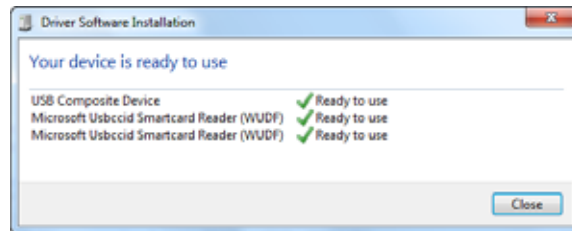
Installing the Identive Driver Automatically

1. Connect the printer USB cable to the computer and power on the printer.

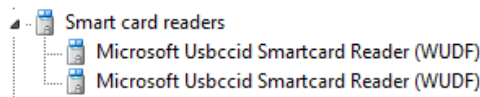
The computer installs the device driver software for the smart card.



“Your device is ready to use” displays after the driver installation is complete.



2. After the Identive smart card reader has been installed, verify that the driver displays in **Device Manager** under **Smart card readers**.



3. Verify that the Identive smart card also display in **Devices and Printers**.





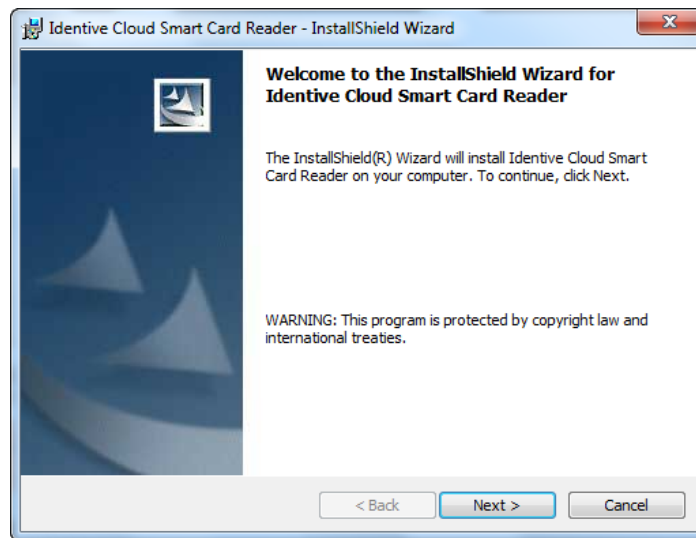
If the driver fails to install or does not display as Identive CLOUD 4000 F DTC in **Devices and Printers**, get the driver download at Datacard.com and install the driver manually. Follow the instructions in “[Downloading and Installing the Identive Driver Manually](#)” (below).

Downloading and Installing the Identive Driver Manually

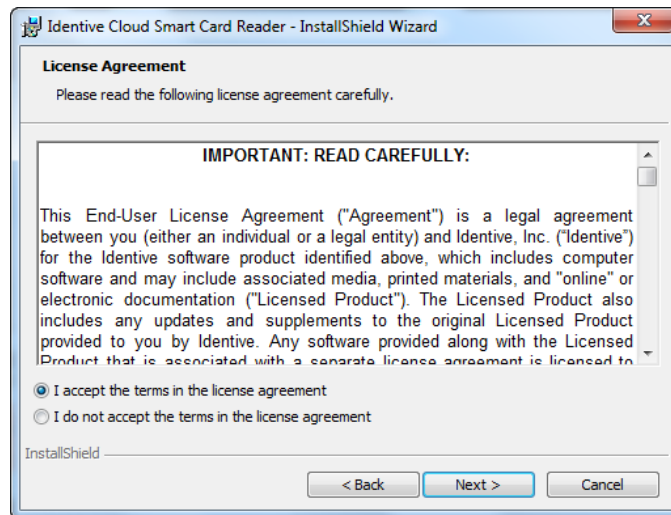
Use the driver installation wizard if the driver does not install automatically when your printer is connected to your computer.

1. Get the driver for the Identive reader from Datacard.com.
 - a. Access the Datacard website at www.datacard.com/id.
 - b. Select **Support & Drivers**, and then **Drivers & Downloads**.
 - c. Enter the model of your printer and click **Go**.
 - d. In the search results for the product, select **Drivers & Downloads** under the model you have selected.
 - e. Select the correct smart card driver and click **Save**. Follow the prompts to save the file to your PC.
2. Double-click the driver file **setup.exe**.

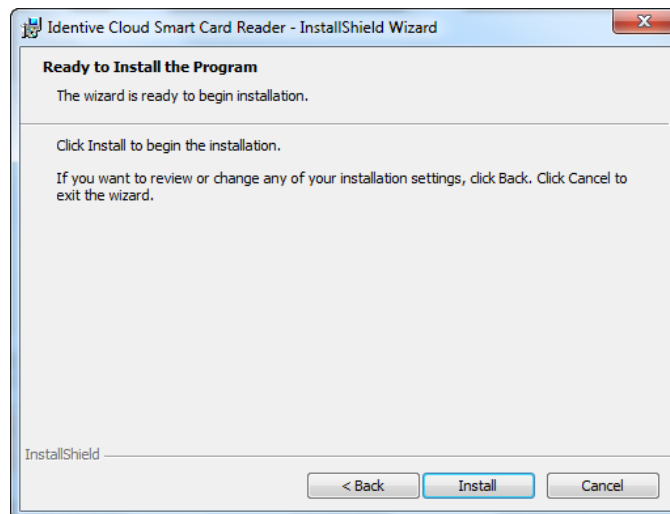
The installation wizard for the driver displays “Preparing to Install.”
3. The installation wizard displays a welcome page. Click **Next** to advance.



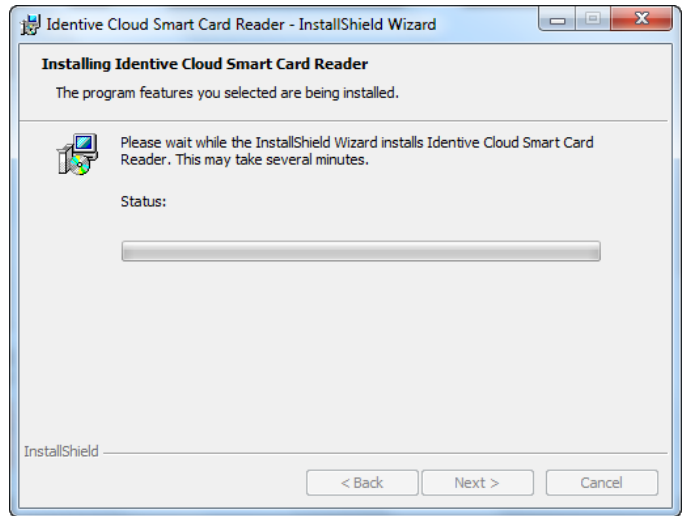
4. The installation wizard displays a License Agreement. Select **I accept the terms in the license agreement** and click **Next**.



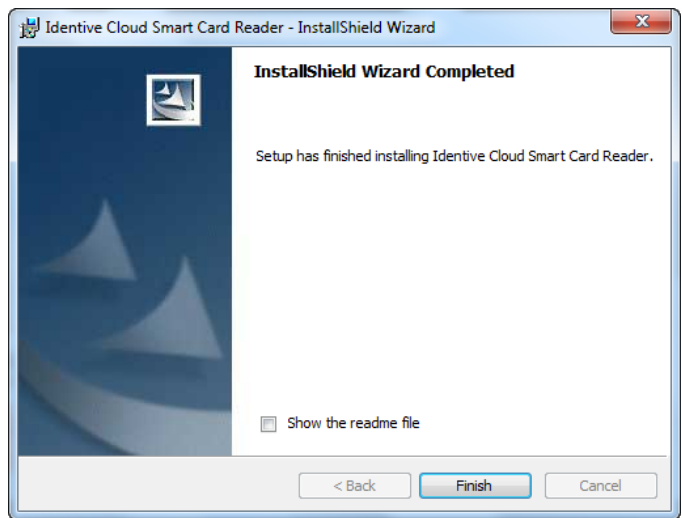
5. The installation wizard displays a ready to install message. Click **Install** to begin driver installation.



The installation wizard displays a status bar as the driver installs.



6. The installation wizard completes driver installation. Click **Finish** to complete the installation.



Installing the iCLASS/pcProx Driver and Support Files

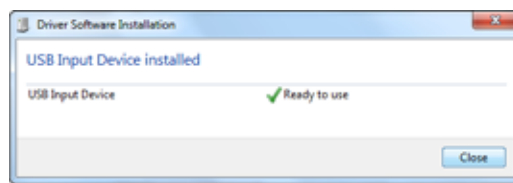
If your SR200 or SR300 card printer has an optional iCLASS/pcProx smart card reader, use one of these procedures to install the driver and support files.

Installing the iCLASS Reader

1. Install the driver.
 - a. Connect the USB cable for the reader to the computer. A message displays indicating that driver is installing.



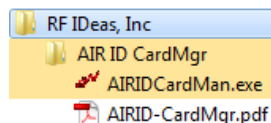
- b. A message displays when the driver installation is complete. Click **Close**.



- c. Open the **Device Manager** and click **Human Interface Devices** to expand the installed devices list. The driver for the iCLASS reader displays as **HID-compliant device**.



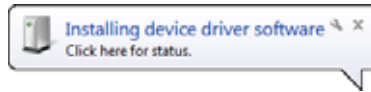
2. Install the AIR ID Card Manager.
 - a. Get the AIR ID Card Manager software from Datacard.com.
 - b. Proceed through the installation wizard to install the AIR ID Card Manager. The program folder displays in the All programs list as RF IDEas, Inc. Click the **RF IDEas, Inc** program folder to expand the installed files.



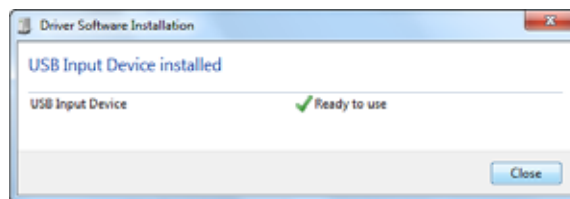
- c. Click **AIRIDCardMan.exe** to open the AIR ID Card Manager.

Installing the pcProx Reader

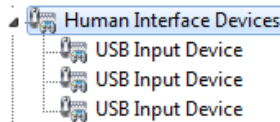
1. Install the driver.
 - a. Connect the USB cable for the reader to the computer. A message displays indicating that driver is installing.



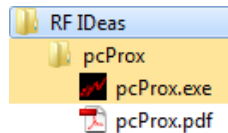
- b. A message displays when the driver installation is complete. Click **Close**.



- c. Open the Device Manager and click **Human Interface Devices** to expand the installed devices list. The driver for the pcProx reader displays as **USB Input Device**.



2. Install the pcProx and AIR ID Enroll Configuration Utility.
 - a. Get the pcProx and AIR ID Enroll Configuration Utility software from Datacard.com.
 - b. Proceed through the installation wizard to install the AIR ID Configuration Utility. The program folder displays in the All programs list as RF IDEas. Click the **RF IDEas** program folder to expand the installed files.



- c. Click **pcProx.exe** to open and use the AIR ID Card Manager.



Chapter 4: Installing the USB Printer Driver

4

This chapter contains procedures for installing the printer driver on a PC that will be connected to the SR200 or SR300 card printer with a USB cable. Follow the procedure that corresponds to your PC's version of Microsoft® Windows®.

Installing with a USB Connection

Use one of the following printer driver installation procedures for each printer to be installed using a USB cable.



Caution: If your printer has a smart card option installed, make sure that you install the smart card driver before installing the printer driver. Refer to [Chapter 3: "Installing the Smart Card Driver"](#) for instructions.



Caution: The printer will not be installed if you connect the USB cable and power on the printer before installing the printer driver. Wait until you are instructed to connect the cable and power on the printer.

Windows 7 Installation

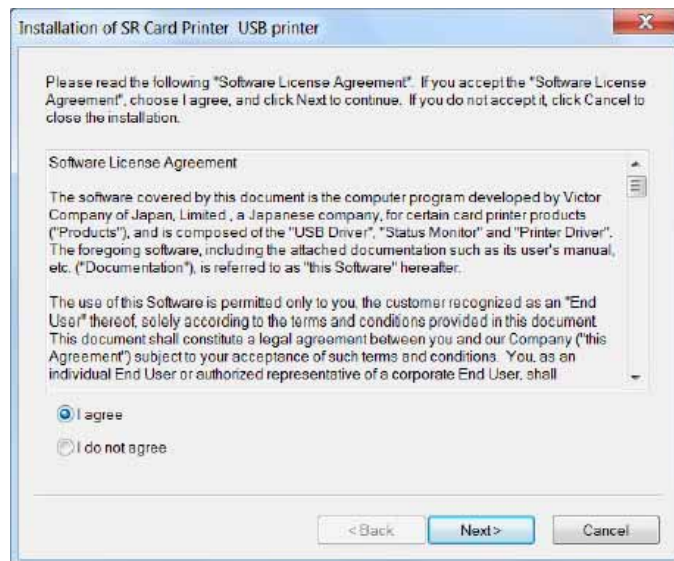
1. Insert the Installation CD, shipped with your printer, in the PC drive.
2. Start the Installation setup if your PC does not run the install program automatically.

The "Welcome to SR Card Printer" dialog box displays.

3. Select **USB connection**, **Install**, **Printer Driver**, **Color conversion data**, and **Status Monitor**. Then, click **Next**.



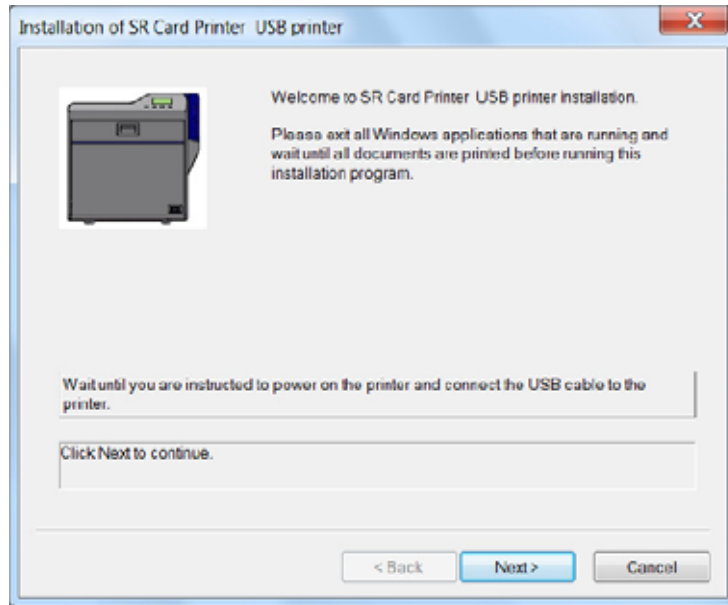
4. Select **I agree** on the Software License Agreement, and then click **Next**.



5. Click **Next** on the Installation screen.



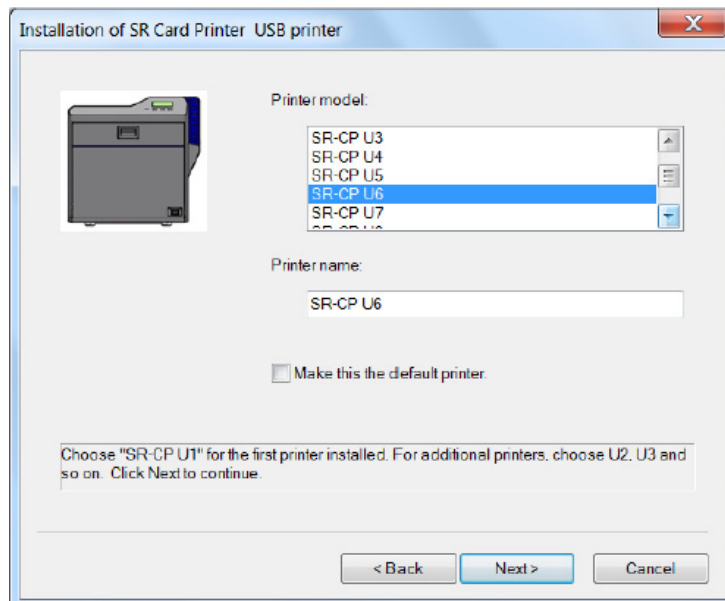
Remember, do not power on the printer or connect the USB cable yet.



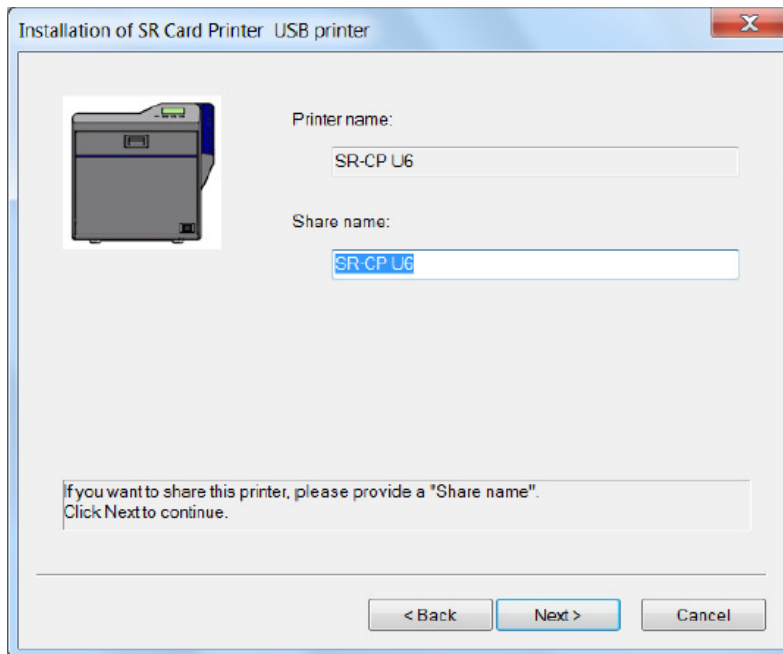
6. Select the printer that corresponds to the printer's unit number. For example, if the unit number is 6, then select **SR-CP U6**. Click **Next**.



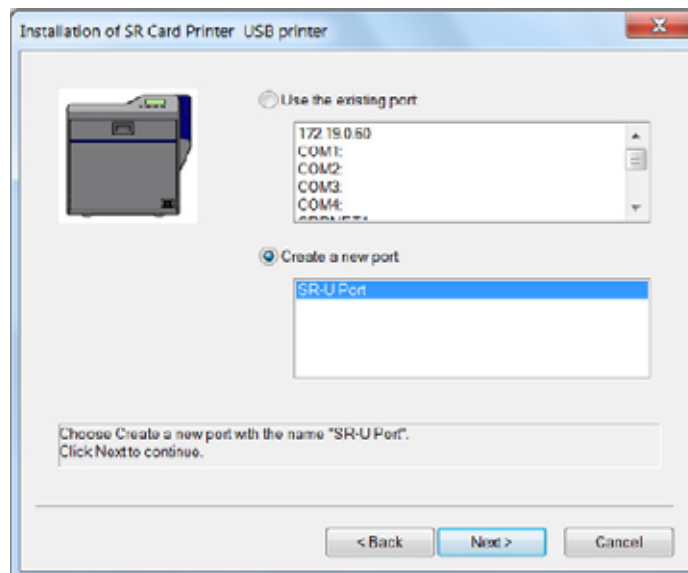
The default printer name is typically U1. The unit number selected here must match the unit number set on the printer's LCD panel. (Refer to "Setting the Unit Number, Printer Name, and Connection" on page 59 to find or change the printer's unit number setting.)



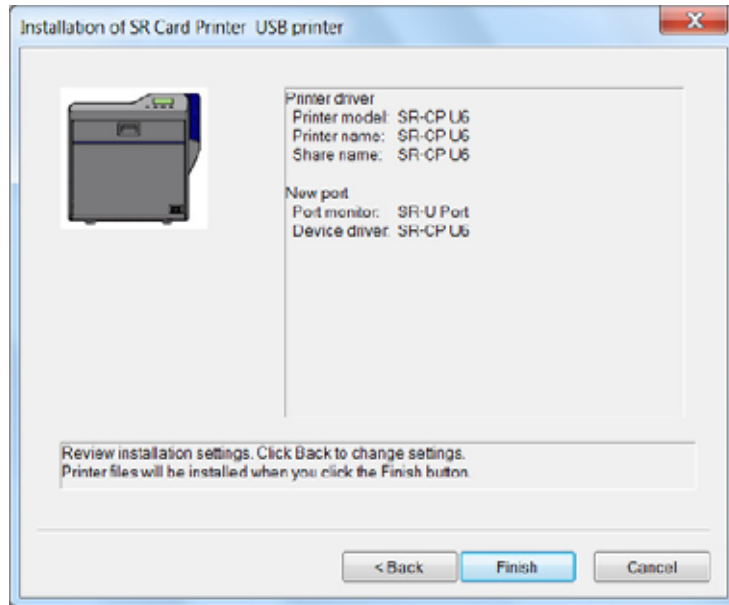
7. Enter a **Share name** or use the default specified. Click **Next**.



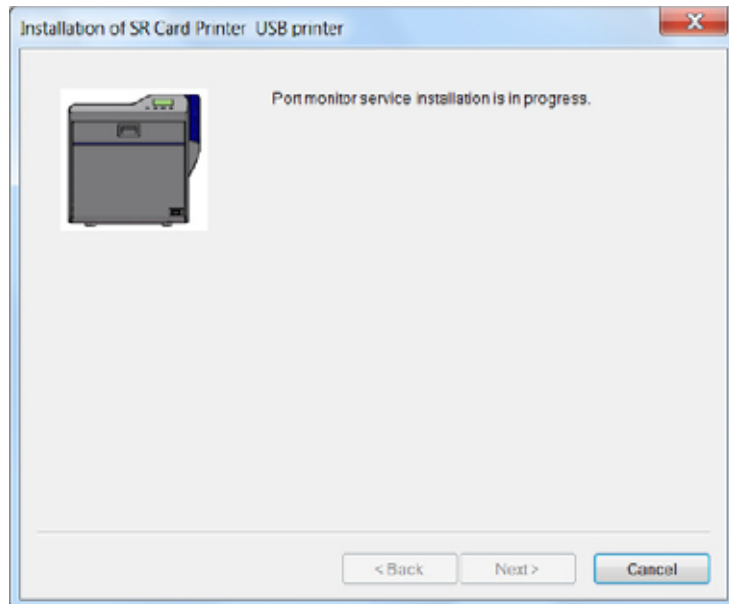
8. Select **Create a new port** and then click **Next**.



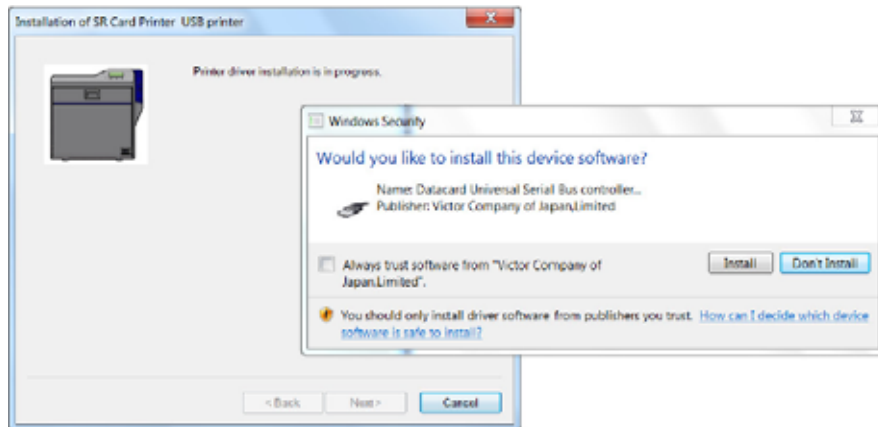
9. Review the installation settings. If changes are needed, click **Back** to return to the previous screen. When all settings are correct, click **Finish**.



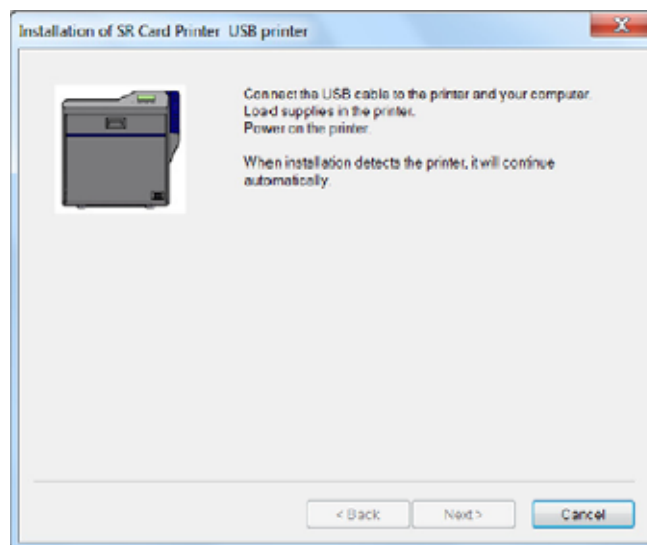
The Port Monitor install screen displays and installation proceeds automatically.



10. The printer driver installation screen displays. If the Windows security message displays, click **Install**.



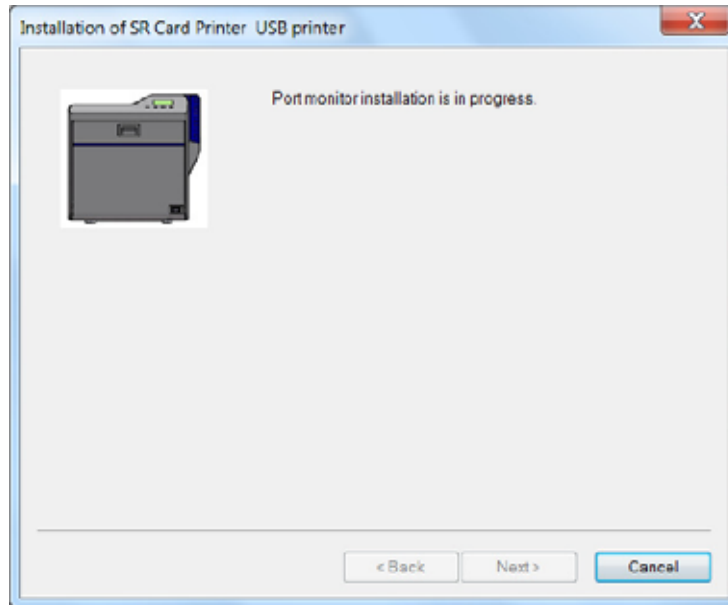
11. Make sure that the printer is powered off. Connect the USB cable to the printer and to the computer. Power on the printer. The installation continues automatically when the printer is detected.



In the task bar, a message confirms that the device driver software is installing. When complete, the task bar displays an "installed successfully" message.



Next, the port monitor installs automatically.



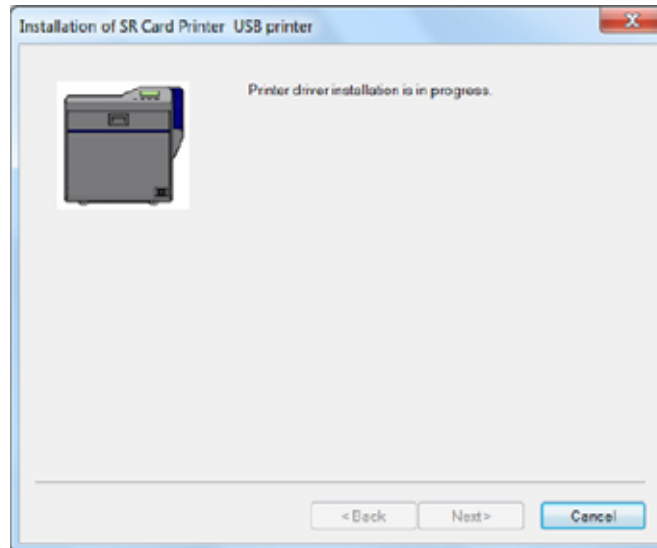
12. If the Windows Security window displays, click **Install this driver software anyway**.



13. On the SR-U Port screen, use the **Printer List** drop-down list to select the printer you are installing. Click **OK**, and then click **Apply**.



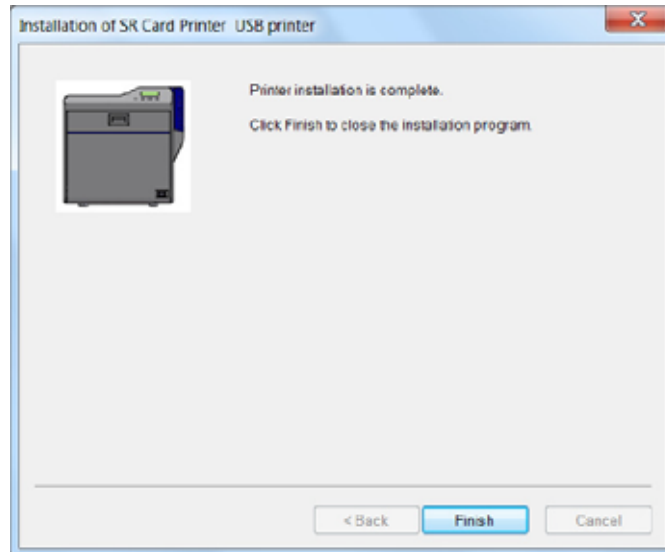
The printer driver installation continues automatically.



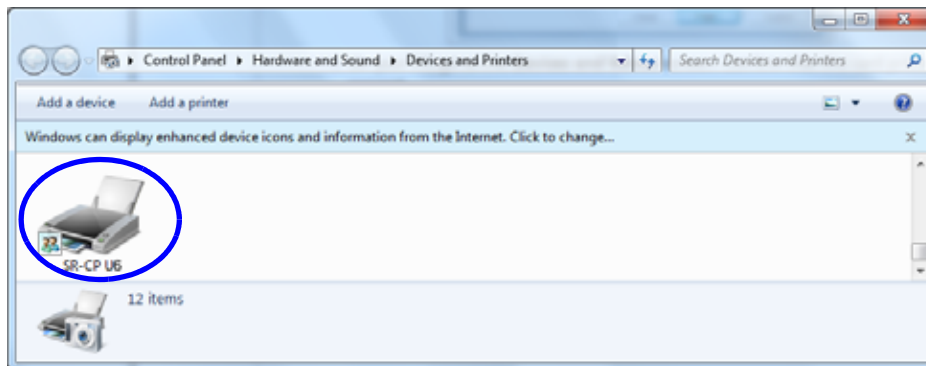
14. If the Windows Security message displays, click **Install this driver software anyway**.



15. The “Printer installation is complete” message displays. Click **Finish**.



16. On your PC, go to the **Devices and Printers** screen. Confirm that the card printer icon is present.



Windows XP Installation



Caution: The printer will not be installed if you connect the USB cable and power on the printer before installing the printer driver. Wait until you are instructed to connect the cable and power on the printer.

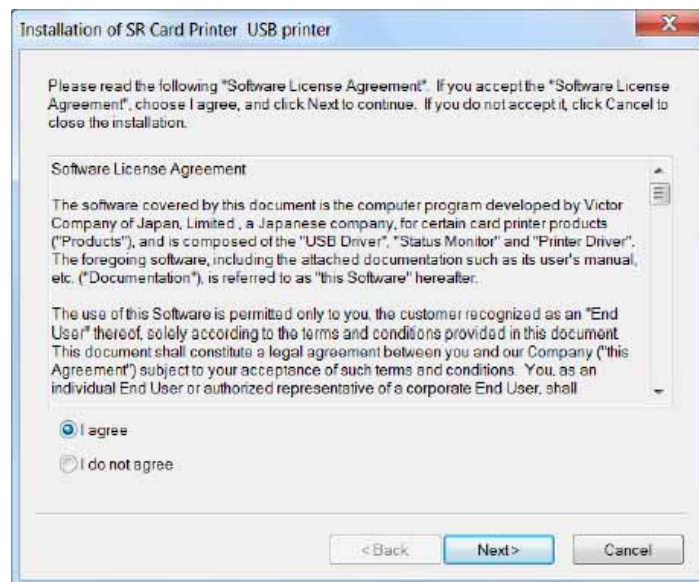
1. Insert the Installation CD, shipped with your printer, in the PC drive.
2. Start the Installation setup if your PC does not run the install program automatically.

The “Welcome to SR Card Printer” dialog box displays.

3. Select **USB connection**, **Install**, **Printer Driver**, **Color conversion data**, and **Status Monitor**. Then, click **Next**.



4. Select **I agree** on the Software License Agreement, and then click **Next**.



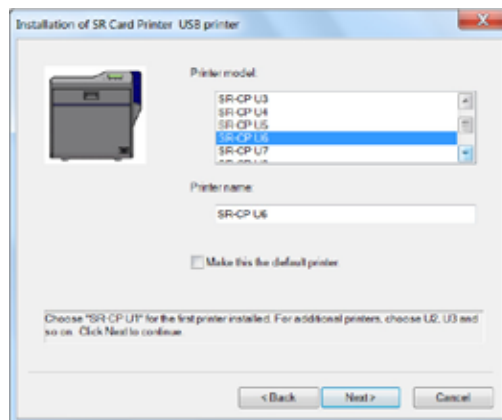
5. Click **Next** on the Installation screen.



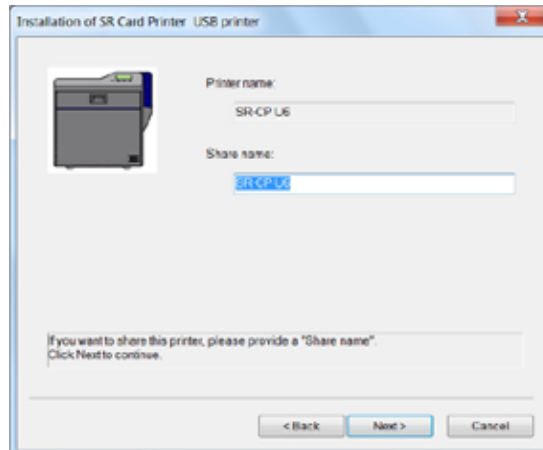
6. Select the printer model that corresponds to the unit number. For example, if the unit number is 6, then select **SR-CP U6**. Click **Next**.



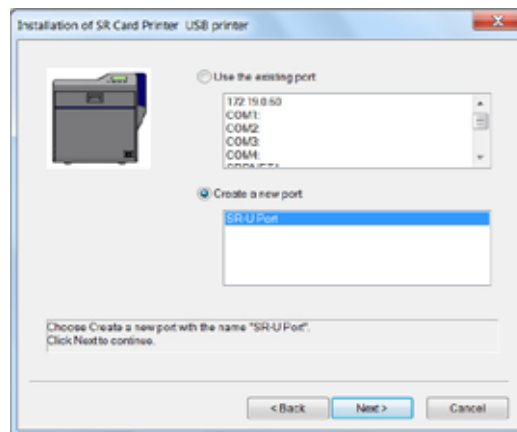
The default printer name is typically U1. The unit number selected here must match the unit number set on the printer's LCD panel. (Refer to “[Setting the Unit Number, Printer Name, and Connection](#)” on [page 59](#) to find or change the printer's unit number setting.)



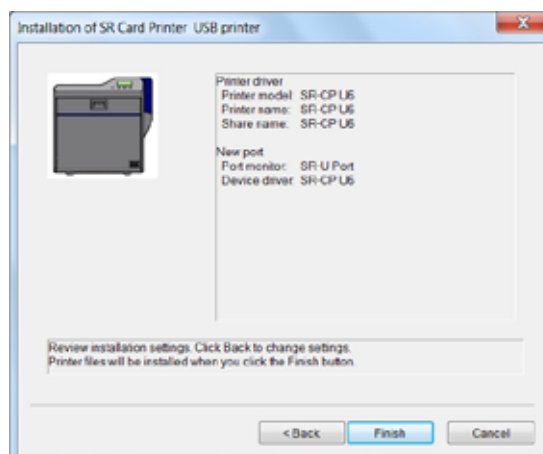
7. Enter a **Share name** or use the default specified. Click **Next**.



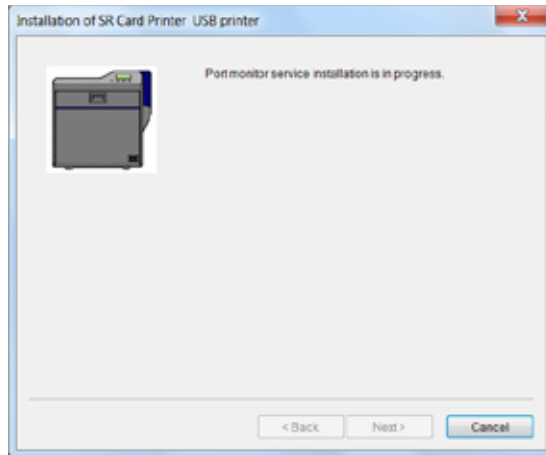
8. Select **Create a new port** and then click **Next**.



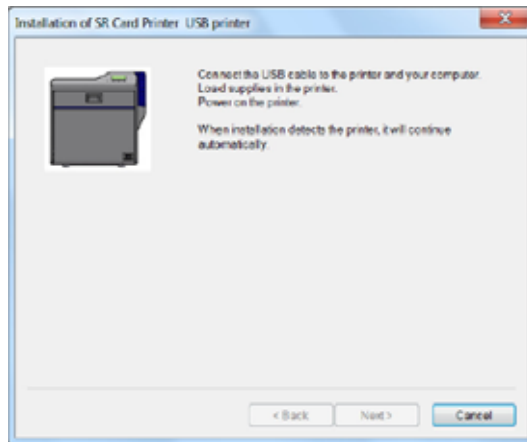
9. Review the installation settings. If changes are needed, click **Back** to return to the previous screen. When all settings are correct, click **Finish**.



The Port Monitor install screen displays and installs automatically.



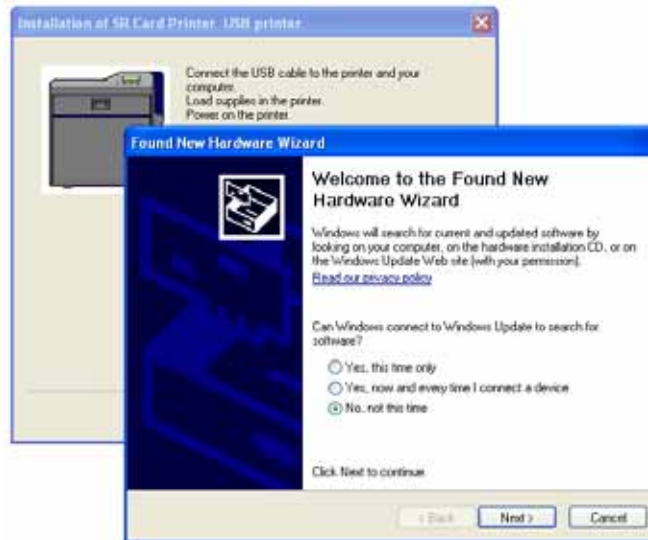
10. Make sure that the printer is powered off. Connect the USB cable to the printer and to the computer. Power on the printer. The installation continues automatically when the printer is detected.



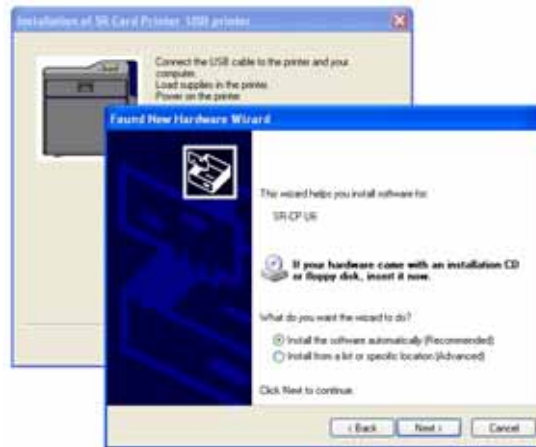
In the task bar, a message confirms that the hardware is installing, and indicates when the software installation is complete.



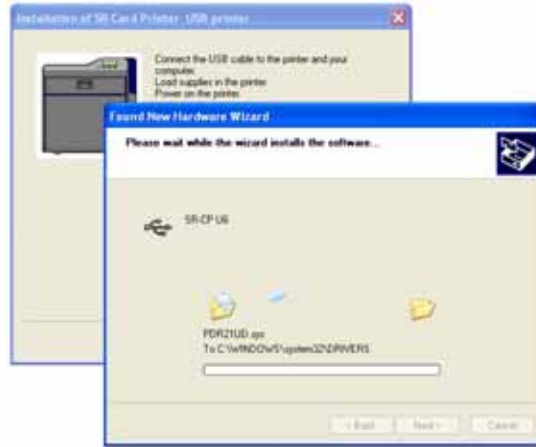
11. The Found New Hardware wizard displays. Click **Next**.



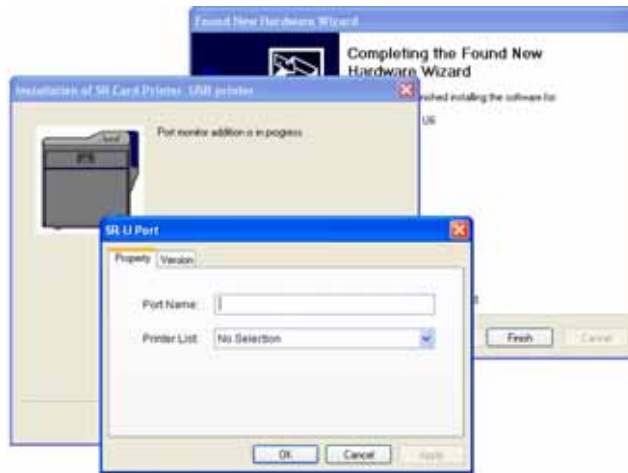
12. Select **Install the software automatically**, and then click **Next**.



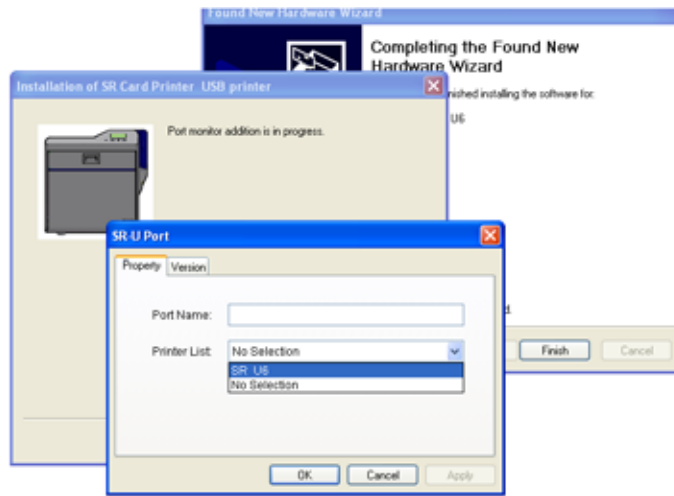
The software installs and the wizard closes.



Next, the Port Monitor installs automatically.



13. On the SR-U Port screen, use the **Printer List** drop-down list to select the printer being installed. Click **Apply**, and then click **OK**.



The printer driver installation continues automatically.



14. When the “Printer installation is complete” message displays, click **Finish**.



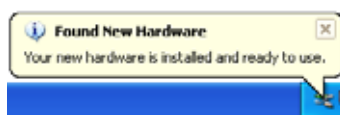
If the Windows Logo testing message displays. Click **Continue Anyway**.



15. When the “Completing the Found New Hardware Wizard” message displays, click **Finish**.



In the task bar, a message confirms that the new hardware installation is successful.



Windows Vista or Windows 2000 Installation



Caution: If your printer has a smart card option installed, make sure that you install the smart card driver before installing the printer driver. Refer to [Chapter 3: "Installing the Smart Card Driver"](#) for instructions.

1. Start the Windows Vista® or Windows 2000 operating system and log on as a user with administrator permissions.
2. Insert the Installation CD, shipped with your printer, in the PC drive.
3. If an AutoPlay dialog box displays, click **Run** to continue.



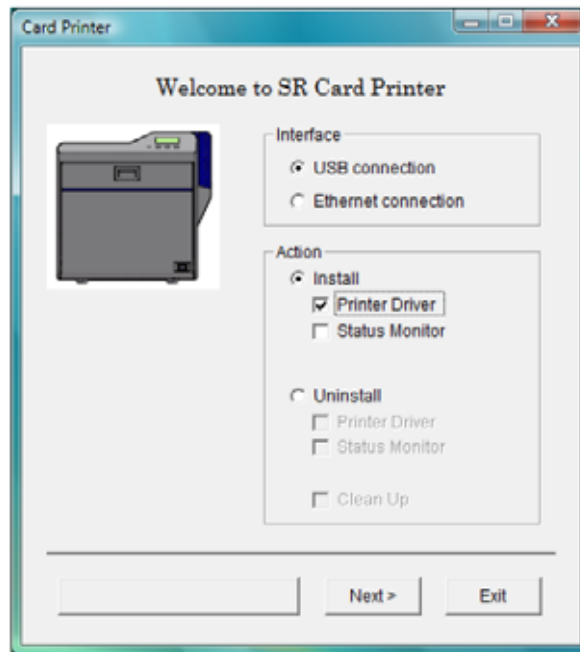
4. When the opening window displays, click **Install the printer**.



5. On the next page, click **Install the Driver**.
6. For Windows Vista, click **Allow** on the Security dialog box. Then, click **Continue** on the User Account Control dialog.

The “Welcome to SR Card Printer” dialog box opens.

7. Select **USB connection**, **Install**, and **Printer Driver**. Then, click **Next**.

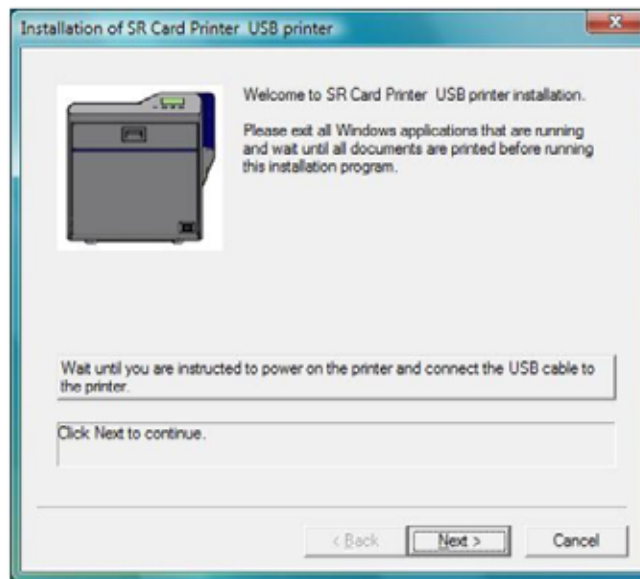


8. Select **I agree** on the Software License Agreement, and then click **Next**.



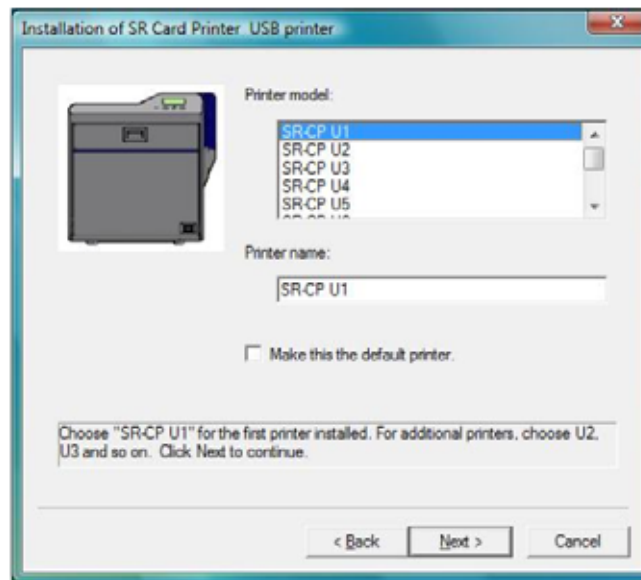
Close all active programs before installing the printer driver.

9. When the following dialog box displays, make sure that all printing from the PC is completed. Then, close all other Windows applications. Click **Next**.



10. Select the **Printer model** from the list.



- If this is the first SR200 or SR300 printer installed on this PC, the default printer is <name> U1.
- U1 is the unit number, and it must match the USB port you create (refer to [step 14](#)) and the Printer name.



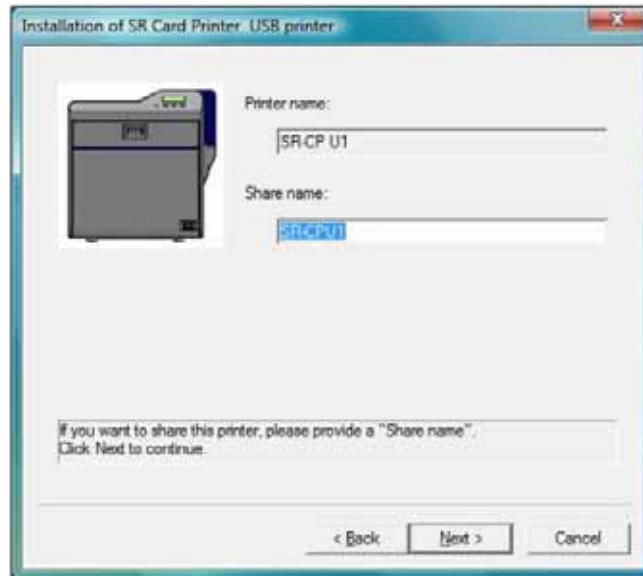
- Use the selected printer name as it is shown or, if you plan to share the printer, remove the space in the name so that it displays as **SR-CPU1**.
- If this is not the only USB-connected printer on this PC, set the unit number of the printer now. Refer to [“Installing the Status Monitor”](#) on [page 55](#).

11. Select the **Make this the default printer** check box if you plan to use only this printer from this PC. Click **Next**.

12. Power on the printer. Continue with the installation.

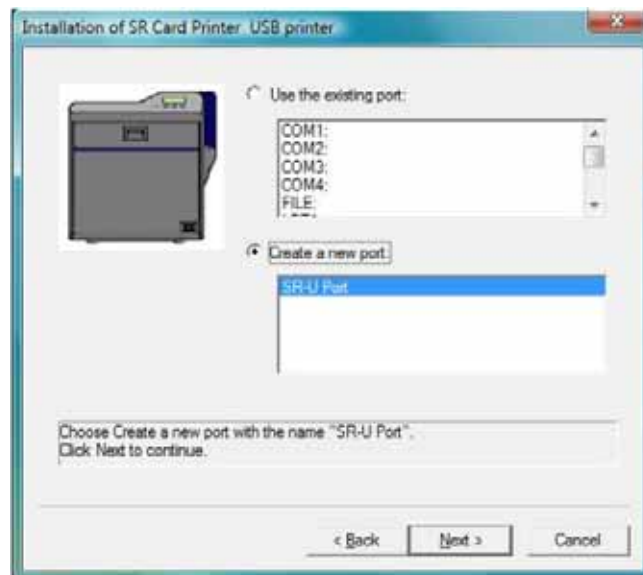
-  The default printer name is typically U1. The unit number selected here must match the unit number set on the printer’s LCD panel. (Refer to [“Setting the Unit Number, Printer Name, and Connection”](#) on [page 59](#) to find or change the printer’s unit number setting.)
-  If the printer has been used before this installation, make sure that the unit number and network name correspond. For example, if the printer is U2, then the network printer name must be PRINTER02. If the printer was previously set to print over the network, you can change the default to USB at the same time.

13. The printer is installed with sharing enabled by default. Enter a **Share name** if needed, and then click **Next**. The Share name cannot contain any spaces.

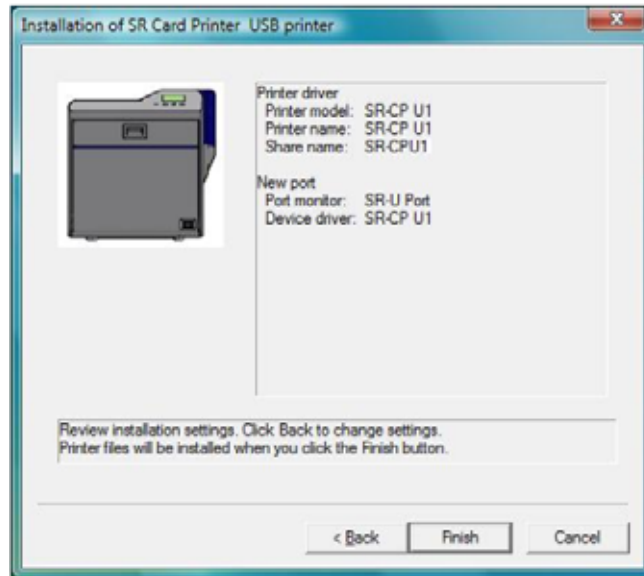


- Use the printer name shown or, if you plan to share the printer, remove the space so that it displays as **SR-CPU1**.
- To share the printer, refer to [“Sharing a Printer on a Network Connection”](#) on page 76.
- Sharing can be disabled after the driver is installed, if needed.

14. Select **Create a new port** and use the port name provided. Click **Next**.



15. Review the summary of choices and then click **Finish**. The wizard copies driver files and continues the installation process.



16. A Windows message displays:

- For Windows Vista, a Windows Security dialog box can display. Click **Install this driver software anyway** to continue.



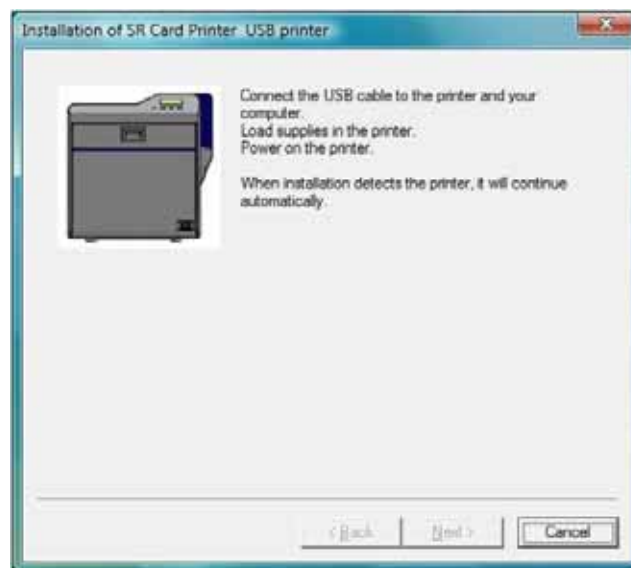
- For Windows 2000, the Digital Signature Not Found message displays. Click **Yes** to continue with installation.



- Security on the PC might be set to prevent installation without a digital signature. Refer to Windows help for “Digital Signature or Logo Signing” to change the security setting.

17. The installation displays instructions to install supplies, connect the USB cable, and power on the printer.

- Refer to “Loading Supplies” in the *User’s Guide* to install ink ribbons and retransfer film cartridges.
- Refer to “Connecting the Data Cable” on page 14 to connect the USB cable.
- Refer to “Powering On” in the *User’s Guide* to power on the printer.



The found new hardware popup might display. when the driver is being installed.



18. When the installation detects the printer, it continues as described below:

- On PCs running Windows 7 or Windows Vista with Service Pack 2, installation continues automatically, without prompts.
- On PCs running Windows XP with Service Pack 3, the Found New Hardware wizard provides the option to search the internet for a driver. Click **No, not this time** and then click **Next**.
- On PCs running Windows XP and 2000, click the **Install the software automatically (Recommended)** button and then click **Next** (Windows XP only). The wizard searches for driver files and continues automatically.



19. Respond to the Windows message that displays:

- For Windows Vista, a Windows Security dialog box can display. Click **Install this driver** to continue.
- For Windows 2000, the Digital Signature Not Found message displays. Click **Yes** to continue with installation.

20. On PCs running Windows 2000, a Found New Hardware wizard dialog box might display stating that the wizard is installing the software. Click **Finish** to continue.

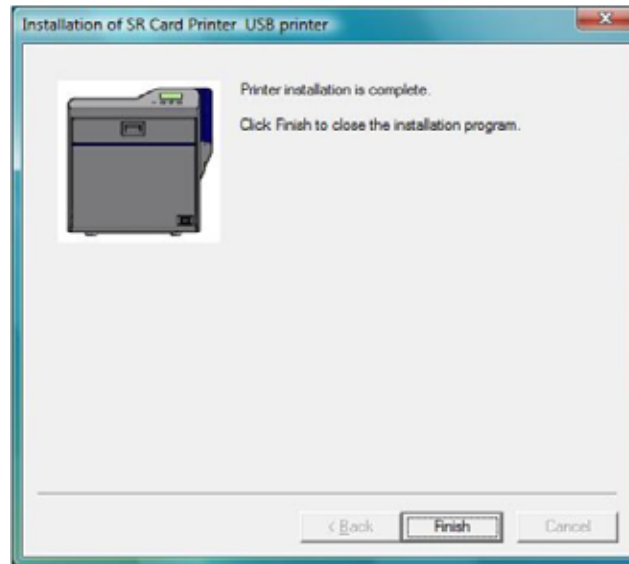
21. Verify or change the settings in the SR-U Port dialog box.



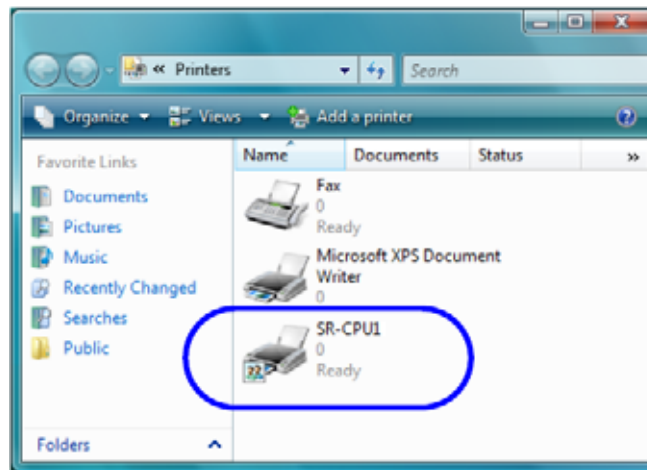
- On the **Property** tab, review the information. Make sure that the selected port and printer are correct for this printer. Click **OK** to continue.
- If the **Printer List** displays **No Device**, the PC might have a network driver running or installed, or the printer might be set to use a network (LAN) host interface. Follow these steps:
 - i. Remove the USB cable from the printer.
 - ii. Click **Cancel**. A dialog message confirms that the driver was not installed.
 - iii. Click **Finish** to close installation.
 - iv. Change the **Host Interface** setting to **USB**. Refer to “Printer Select Tab” in the *User’s Guide*.
 - v. Begin driver installation again, starting with [step 7](#).

22. For Windows Vista, a Windows Security dialog box can display. Select **Install this driver** to continue.

23. The following dialog box might display in the background. Click **Finish** to close it.



24. Open the Printers and Faxes window to make sure that the new printer displays.



Installation of the printer driver is now complete.

After Installing the USB Printer Driver

When the USB printer driver has been installed onto your PC, you may perform the following procedures, as suitable for your installation and printer use:

- Continue with installing the Status Monitor. Refer to [“Installing the Status Monitor”](#) on [page 55](#).
- To set up printer sharing, refer to [“Sharing a Printer on a Network Connection”](#) on [page 76](#).
- After installing the driver and Status Monitor, you can install the optional Datacard SR-CR retransfer printer plug-in.
- If you want to delete the printer, restart Windows and then follow the steps in [“Removing the Printer Driver”](#) on [page 81](#).



Chapter 5: Installing the Status Monitor


5

This chapter contains the procedure for installing the Status Monitor on each PC that is connected to the card printer. Instructions are also included for setting the printer unit number, name, and connection type (network or USB).

Installing the Status Monitor

The Status Monitor is an application that runs on the PC and communicates with the card printer. It displays information about the printer and allows users to view and change most printer settings.

Install the Status Monitor on each PC used to print cards (USB or network-connected).

 If you are installing the Status Monitor as soon as the driver is installed, begin at [step 6](#), with the “Welcome to SR Card Printer” dialog box open.

1. Start your PC’s Windows operating system and log on as a user with administrator-level permissions.
2. Insert the Installation CD shipped with your printer in the PC drive.
3. When the opening window is displayed, click **Install the Printer**.



4. Click **Install the Driver**.
5. If the User Account Control dialog displays, click **Allow**.

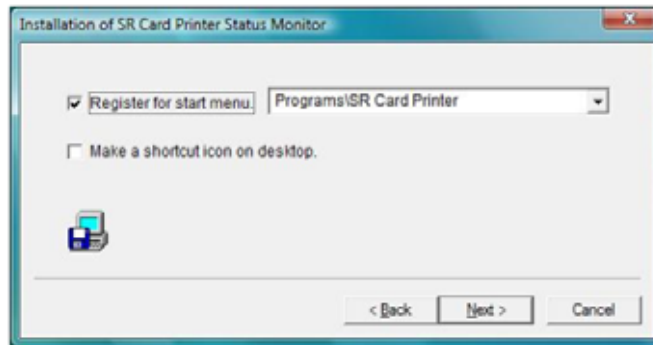
The “Welcome to SR Card Printer” dialog box displays.



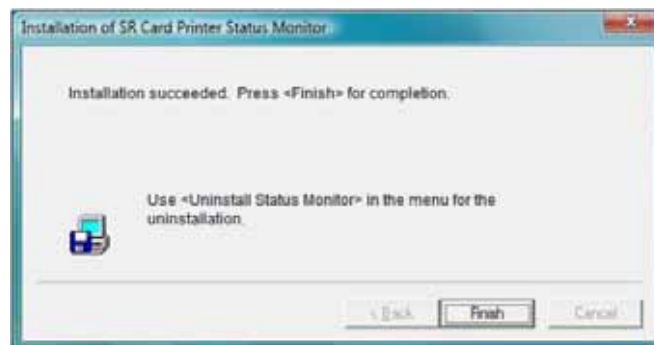
6. Make sure that the following items are selected:
 - Install
 - Status Monitor
7. Click **Next**.
8. Confirm the directory for installation. Click **Browse** to install the Status Monitor to a different location, if necessary. Then, click **Next**.



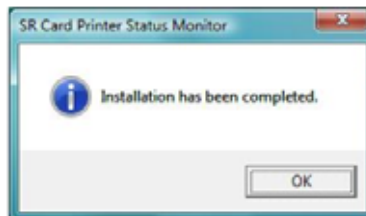
9. Select the **Make a shortcut icon on desktop** check box if you want a desktop icon. For best results, keep **Register for start menu** selected, to allow opening the Status Monitor from the Windows Start menu.
10. Click **Next** to install Status Monitor files.



11. When the Status Monitor is installed, click **Finish**.



12. Click **OK** to complete this installation.



13. The PC returns to the "Welcome to SR Card Printer" dialog box. Click **Exit**. Then, click **Exit** to close the CD window. Click **Yes** on the Installation Report dialog to complete the installation report.
14. When both windows are closed, remove the CD from the PC's drive.



15. You can open the Status Monitor from the Start menu (and from the desktop icon if one is installed). Refer to the *User's Guide* for information about using the Status Monitor.

Tips for Success

- If you have more than one SR-CP printer connected to a PC, install the Status Monitor once. You can then select which printer to display in the Status Monitor.
- Use the Status Monitor from the host PC only, if you use Windows printer sharing. The Status Monitor does not work from the client PC.

Setting the Unit Number, Printer Name, and Connection

If you install more than one SR200 or SR300 printer on a PC, each printer must have a different unit number and a different printer name. Each unit number and printer name must correspond to each other. For example, if unit number is 3 the printer name must be PRINTER03.

If you install a printer over the network, the default interface must be set to **Network**. If you install the printer using a USB cable, the default interface must be set to **USB**.

Tips for Success

- For best results, plan printer deployment and numbering. Install the printer to which you will assign the highest number first. Then install the next lower number, ending with the printer named PRINTER01 and having unit number 1.
 - If more than printer is to be installed on the PC, set the unit number and printer name before installing the printer.
 - When installing the printer using a USB connection, select the port name to correspond to the unit number and printer name. For example, if the printer name is PRINTER03 and the unit number is 3, select port SR U3.
 - If a network-connected printer will be installed on several PCs, each PC must use the unit number and printer name assigned in the printer.
 - If the printer was previously used as a network printer and you want to use a USB connection, the default interface must be set back to USB.
1. Install printer supplies. Refer to “Using the Printer and Laminator” in the *User’s Guide* to install ink ribbon and retransfer film cartridges.
 2. Install the Status Monitor from the Installation CD. Refer to “Installing the Status Monitor” on page 55. Close the installation windows.
 3. With the Installation CD in the PC drive, connect the printer and PC using a USB cable. Do **not** click the **Install the Printer** button.
 4. Power on the printer. The PC detects the USB hub, and displays a Found New Hardware wizard. Follow the prompts to install the hub software. The PC posts an identifier, such as SR-CPU1. Record this identifier to use in [step 7](#).



5. Change the unit number at the printer LCD panel.

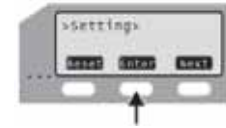
a. Press **Menu** to enter the menus.



b. Press **Next** several times until **Setting** is displayed.



c. Press **Enter** to open the **Setting** menu.



d. The first submenu is Display. Press **Next** twice.



e. **Unit No.** is displayed. Press **Change**.



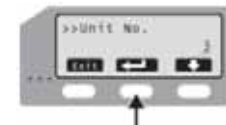
f. Press the down arrow key to scroll to the desired unit number.

To select a lower number, scroll to 10 and then press the down arrow key again. The number rolls over to 1.



g. Press the **Return** key to assign the number.

h. Press **Exit** twice to leave the menus.



i. Power off the printer. Wait 30 seconds or more. Power on the printer.

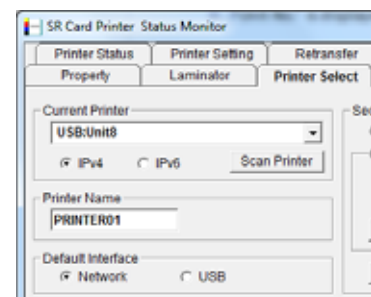
6. Open the Status Monitor as an administrator-level user. Refer to the “Using the Status Monitor” section of the *User’s Guide*. Click the **Printer Select** tab.

7. Make sure that the identifier from [step 4](#) is selected in the Current Printer field. Click **Refresh** to get the new unit number from the printer.

8. Change the **Printer Name** field to correspond with the unit number. For example, if you set the unit number to 8, change the printer name to PRINTER08.

9. Change the **Default Interface** value and network settings, and change if needed.

- If the printer is set to USB and you plan to install the printer with a network connection, change the value to **Network**.



- If the printer is set to Network, and you plan to install the printer with a USB connection, click **Scan Printer** if needed, and then change the value to **USB**.



You can use only one method (USB or network) to connect a printer.

- If you plan to install the printer with a network connection, set up the network details, including whether to use IPv4 or IPv6, automatic IP addressing (DHCP) or assigned addresses, and address values if needed.

10. Click **Update** to send the new information to the printer. The unit number and printer name now correspond in the printer. You can verify all the settings changed by viewing them on the printer LCD panel. Refer to the “Using the LCD Panel Menus” section of the *User’s Guide*.



11. Disconnect the USB cable to separate the printer from the PC. Power off the printer.

12. Return to [step 3](#) to assign the unit number and printer name to the next printer, if multiple printers are installed.



If you plan to use any SR200 or SR300 printers from this PC, do not uninstall the Status Monitor.



Chapter 6: Network Installation



Use this chapter to install the printer driver and configure the card printer on your network, if a network connection is being used to print cards.

About Network Installation

When installing the printer over a network you can make the following choices:

- Use DHCP or static addressing

Set this choice using the Status Monitor. It does not affect the procedure you use to install the printer. Refer to [“Choosing How to Assign the Network Address”](#) on page 64 for information about the choices.

- Use IPv4 or IPv6 addressing

The printer supports internet protocol (IP) addressing using the typical v4 format, such as 123.123.123.123 (32 bits). It also supports the newer IPv6 standard, which uses 128 bits. Select the format used by other devices on your network.

- Use a unique printer name

You can assign a network printer name such as PRINTER01 or PRINTER09. At the same time that you assign a network printer name, set the Unit No (unit number) to a corresponding value. For example, if the Unit No is U2, then the network printer name must be PRINTER02. Refer to [“Setting the Unit Number, Printer Name, and Connection”](#) on page 59.

If the printer has been used before this installation, make sure that the unit number and network printer name correspond.

- Use IPSec security

To use IPSec security, you must:

- a. Install the printer, driver, and Status Monitor using a USB connection.
- b. Download files for security.
- c. Remove the USB driver and Status Monitor.
- d. Install the printer as a network printer.

The network administrator for your network can tell you the type of security your network uses, and can help with obtaining the needed keys or certificates.

Refer to “[IP Security Using a Printer Certificate \(IPSec\)](#)” on [page 64](#) or “[IP Security Using a Preshared Key](#)” on [page 66](#) for the steps to follow.

Network settings include how the IP address is assigned, assigning address values, and whether to use IP security.

Choosing How to Assign the Network Address

You can use a permanent IP address (called static IP) on any network. A static IP address is stored in the printer and is entered at the PC. The advantage of using a static IP address is that the printer address does not change.

To use DHCP, the network connecting the printer and PC must support DHCP (Dynamic Host Configuration Protocol) and DNS (Domain Name System). DHCP uses a printer name that does not change, such as PRINTER01, combined with an IP address that can change. The DHCP server keeps track of the network printer name and the current IP address for the printer. The printer is identified on the PC by its network printer name.

If you use Static IP addressing, ask your network administrator for the values to use.

You can set the IP address using the Printer Select tab of the Status Monitor. Refer to “Using the Status Monitor” in the *User’s Guide* to set the network printer name using the Status Monitor.

IP Security Using a Printer Certificate (IPSec)

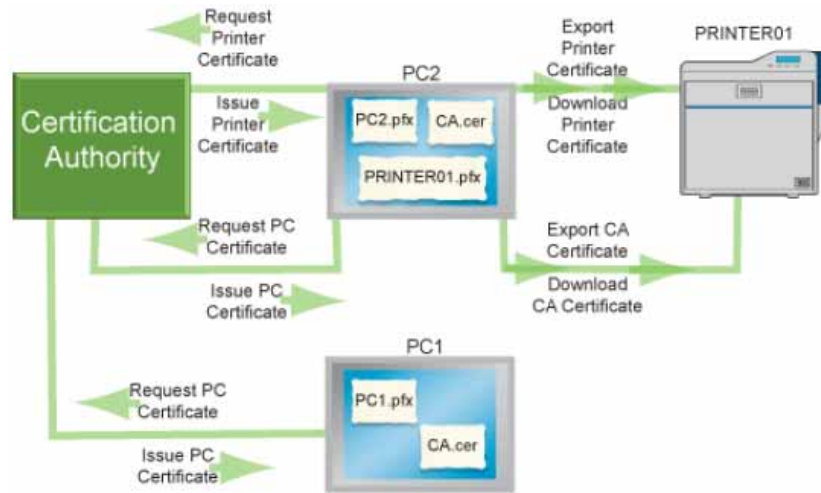
To set up IPSec security using a printer certificate, you need to obtain certificates from a certificate authority for the printer and for each PC that will print to it. The certificates must be available before setting up IPSec. For more information about IPSec security, search Windows help for “IPSEC.”

Tips for Success

- Each PC that uses the printer must have a certificate installed to use the printer after IPSec security has been set up. If the network already uses certificates, the PC is likely to have its certificate installed. The diagram below shows the PC’s certificate, but the procedure does not describe it.
- The printer certificate must be requested once for each printer. It must be an exportable key, and needs to be downloaded only once.
- The IPSec Mode and IPSec Type values displayed on the printer LCD panel are read-only settings.

Track the expiration dates for all certificates used. If a certificate expires, communication between the printer and PC can fail and cards cannot be printed.

This chart shows the process you might follow to enable two PCs to print using a printer certificate with IPsec:



Use the following procedure to set up IPsec security using a printer certificate:

1. Install the Status Monitor using a USB connection. Refer to “Installing the Status Monitor” on page 55 for the steps to follow.
2. Obtain the printer certificate and install it on the PC.
3. Export the printer certificate and Certification Authority (CA) certificate to files.
 - a. Open the Management Console by choosing **Start > Run**. Type mmc in the Run dialog and click **OK**. If needed, add the IP Security Policy Management snap-in.
 - b. Start **Certificate (Local Computer)**.
 - c. Open the personal store to run the Certificate Export wizard.
 - d. Select “**Personal Information Exchange PKCS#12 (.PFX)** as the format.



- e. Specify a password for the file. Allowed characters are upper- and lowercase letters (A–Z), numerals (0–9), and the special characters hyphen (-), underscore (_), open and close parentheses (), period (.), and the at symbol (@).
 - f. Note the location of the file for use later in the procedure.
 - g. Export the CA certificate also, if it does not exist in file form.
4. Connect the PC and printer using a USB cable.
5. Open the Status Monitor as an administrator. Refer to “Using the Status Monitor” in the *User’s Guide*.
6. Power on the printer. Do not send any cards to print.
7. Click the **Printer Select** tab. Do the following:
 - a. Click **IPSec Enable**. Refer to the “Using the Status Monitor” section of the *User’s Guide*.
 - b. Set the **IPSec Type** to **Printer Certificate**.
 - c. Click **Details**. The IPSec setting dialog box opens.
 - d. Select the **Download Type** from the list.
 - e. Click **Select**. The Select Certificate Download File dialog box opens.
 - f. Browse to the location of the printer certificate or CA certificate.
 - g. Select the file and then click **Write**. The Status Monitor sends the file to the printer.
 - h. Repeat [step c](#) through [step g](#) for the second file (printer certificate or CA certificate, whichever was not downloaded in [step f](#)) to download.
8. Remove the USB cable connecting the printer and PC.
9. Install the printer using a LAN connection. Refer to “[Installing the Network Printer Driver](#)” on [page 68](#).

IP Security Using a Preshared Key

To use IPSec security with a preshared key, create a key file and then define it to the PC.

Tips for Success

- Each PC that uses the printer must use the shared key to use the printer after IPSec security has been set up.
- The IPSec Mode and IPSec Type values on the printer LCD panel are read-only settings.
- For more information about IPSec security, search Windows help for “IPSEC.”

To set up IPSec security using a preshared key, do the following:

1. Install the Status Monitor using a USB connection. Refer to “[Installing the Status Monitor](#)” on [page 55](#) for the steps to follow.
2. Create a key.
 - a. Using an application such as Notepad, create a text file for the key.
 - ◆ Allowed characters are upper and lower case letters (A–Z), numerals (0–9), and the special characters hyphen(-), underscore (_), open and close parentheses (), period (.), comma (,), and the at symbol (@).
 - ◆ The key can be up to 255 characters long.
 - b. Save the file with an extension of “.key”.
3. Open the Management Console by selecting **Start > Run**. Enter *mmc* in the Run dialog and click **OK**. If needed, add the IP Security Policy Management snap-in.
4. Start IP Security Policy Management. This is available after IP security has been set up on the PC.
5. Open the **Edit Authentication Method Properties** dialog box for the policy.
6. Select **Use this string:** and enter the key from step 1.
7. Click **OK** to save the value and close the dialog box.
8. Connect the PC to the printer with a USB cable.
9. Open the Status Monitor as an administrator. Refer to the “Opening the Status Monitor” section of the *User’s Guide*.
10. Power on the printer. Do not send any cards to print.
11. Click the **Printer Select** tab. Do the following:
 - a. Select **IPSec Enable**. Refer to the “Printer Select Tab” section of the *User’s Guide*.
 - b. Set the **IPSec Type** to **Preshared Key**.
 - c. Click **Details**. The IPSec setting dialog box opens.
 - d. Select **Preshared Key** from the **Download Type** list.
 - e. Click **Select**. The Select Certificate Download File dialog box opens.
 - f. Select **Preshared Key** from the **Download Type** list.
 - g. Select the file and then click **Write**. The Status Monitor sends the file to the printer.
12. Remove the USB cable connecting the printer and PC.

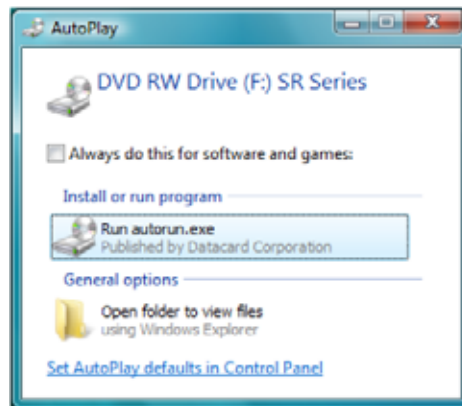
13. Install the printer using a LAN connection. Refer to “Installing the Network Printer Driver” on page 68.

Installing the Network Printer Driver



Make sure that network values are set as described in “Setting the Unit Number, Printer Name, and Connection” on page 59. Begin with the printer powered off and supplies installed.

1. Power on the PC and log on to Windows as a user with administrator permissions.
2. Insert the Installation CD for the printer in the PC drive.
3. If an AutoPlay dialog box displays, click **Run autorun.exe** to continue installation.

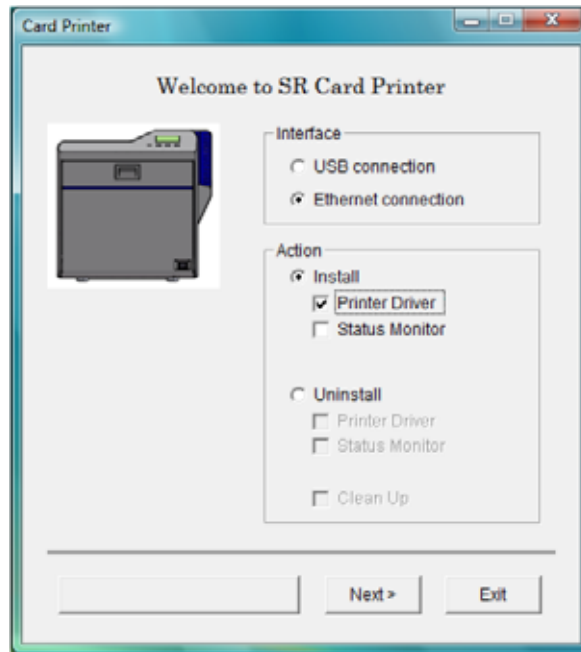


4. When the opening window is displayed, click **Install the Printer**.




5. On the next dialog box click **Install the Driver**.
6. For Windows Vista, click **Allow** on the Security dialog box. Then, click **Continue** on the User Account Control dialog.

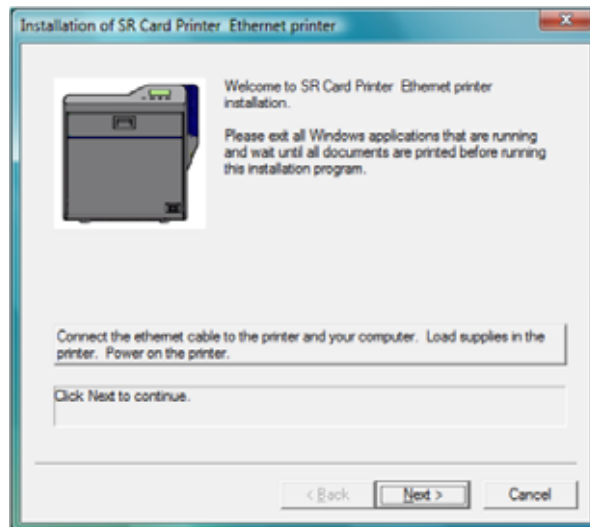
7. The “Welcome to SR Card Printer” dialog box opens.



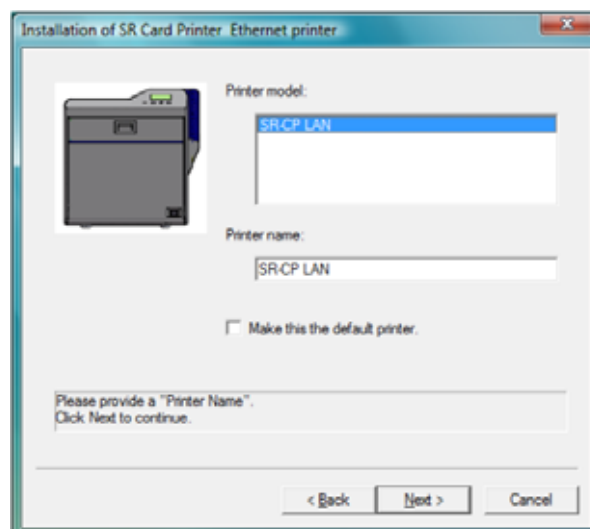
8. Make sure that the following items are selected and then click **Next**:
 - Ethernet connection
 - Install
 - Printer Driver
9. On the Software License Agreement, click **I agree** and then click **Next**.

10. When the following dialog box displays, make sure that all printing from the PC is complete and then close all other Windows applications. Confirm that the printer is ready and then click **Next**.

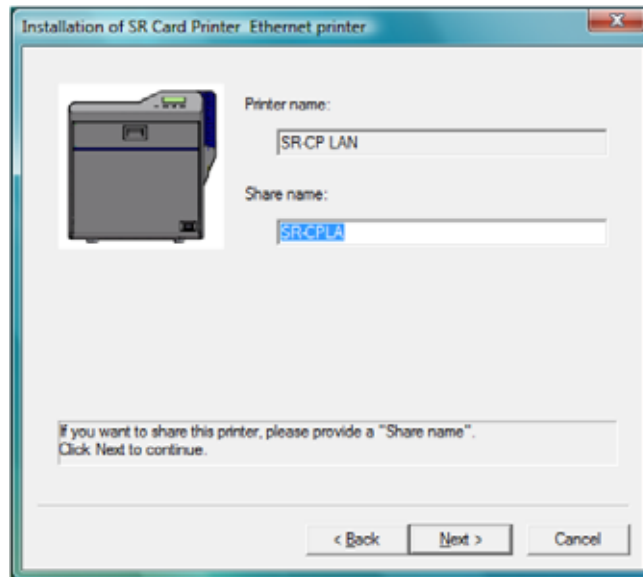
 Close all active programs before installing the printer driver.



11. Connect an Ethernet cable to the network and to the printer. Refer to “[Connecting the Data Cable](#)” on [page 14](#) for the steps to follow.
12. Power on the printer.
13. Select the printer from the list. Use the name assigned in “[Setting the Unit Number, Printer Name, and Connection](#)” on [page 59](#).

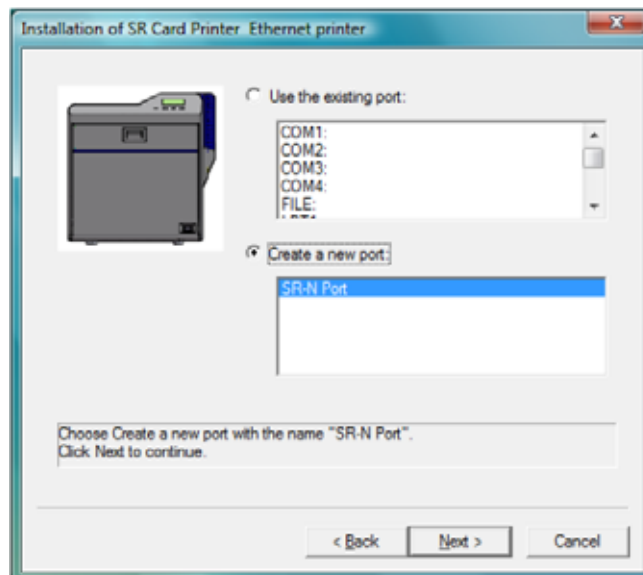


14. Select the **Make this the default printer** check box if you plan to use only this printer from this PC. Click **Next**.
15. The printer is installed with sharing enabled by default. Use the default name or enter a **Share name** if needed, and then click **Next**. The Share name cannot contain any spaces.



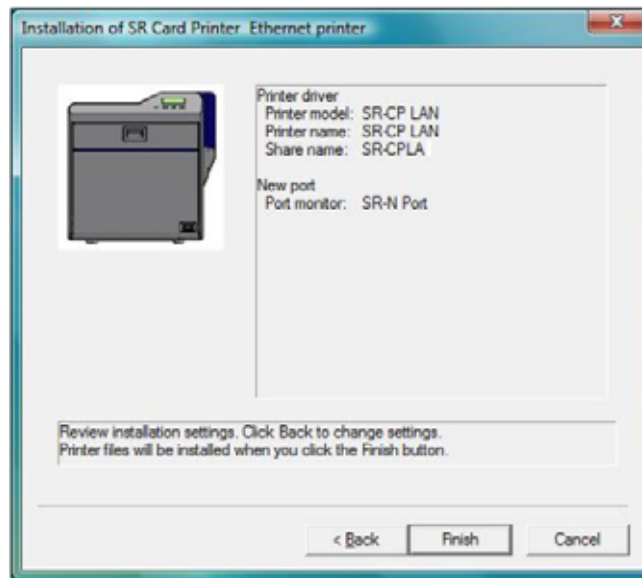
- Sharing can be disabled after the driver is installed, if needed.
- To share the printer, refer to [“Sharing a Printer on a Network Connection”](#) on page 76.

16. Select **Create a new port** and then click **Next**.



17. Review the printer driver installation settings. If changes are needed, click **Back** to return to the previous screen. When all settings are correct, click **Finish**.

The wizard begins copying driver files.



The installation displays a message regarding port creation.

18. A Windows message displays:

- For Windows Vista, the Windows Security Alert might display. Click **Unblock** to enable the PC to communicate with the printer.
- For Windows XP, the Windows Logo testing message displays. Click **Continue Anyway** to continue with installation.



- For Windows 2000, the Digital Signature Not Found message displays. Click **Yes** to continue with installation.



- PC security might be set to prevent installation without a digital signature. Refer to Windows help for "digital signature" or "Logo signing" to change the security setting.

19. The network port (N Port) dialog box displays. On the **Property** tab, enter a port name, such as **SR-CPLAN**.



20. From the **Printer List**, select the entry with the printer name and IP address. Click **OK**.

21. If the printer name and IP address do not display, search for the printer:

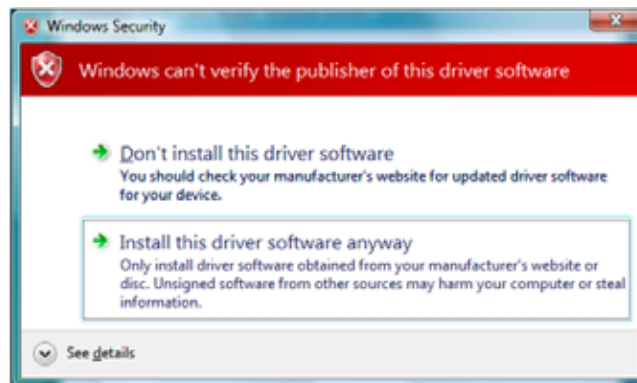
- Retrieve the IP address, as described in the "Printer LCD Panel" section of the *User's Guide*.
- Select IPv4 for a 32-bit IP address or IPv6 for a 128-bit IP address.
- IPv4 is the default and 192.168.0.148 is the default IP address.
- Type the IP address in the **Printer List**.

- e. Click **Find** to locate the printer.



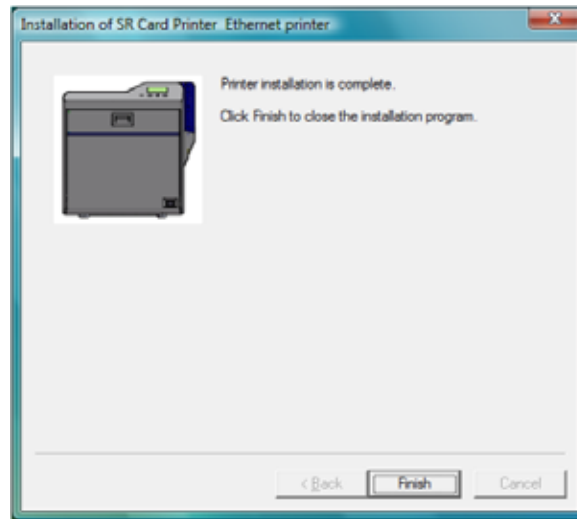
22. A Windows message displays.

- For Windows Vista, the Windows Security dialog box displays. Select **Install this driver** to continue with installation.

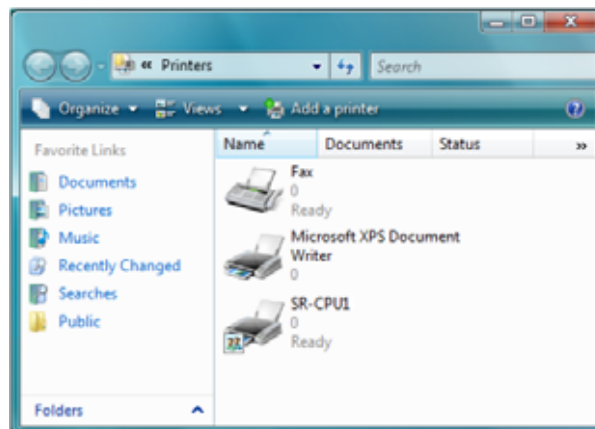


- For Windows XP, the Windows Logo testing message displays. Click **Continue Anyway** to continue with installation.
- For Windows 2000, the Digital Signature Not Found message displays. Click **Yes** to continue with installation.

23. The last page of the wizard displays. Click **Finish**. You can leave the CD-ROM in the PC drive.



24. Open the Printers or Printers and Faxes window and make sure that the new printer is displayed.



Installation of the printer driver is now complete.

Next Steps


- Continue with installing the Status Monitor. Refer to [“Installing the Status Monitor”](#) on [page 55](#).
 - After installing the driver and Status Monitor, you can install the optional Datacard SR-CR retransfer printer plug-in.
 - If you want to delete the printer, restart Windows and then follow the steps in [“Removing the Printer Driver”](#) on [page 81](#).
-

Sharing a Printer on a Network Connection

Preparing to Share a Printer

Printer sharing is a Windows-supported feature that enables a printer installed on a host PC to be used from another PC on the network (often called the client PC). For best results, use printer sharing with PCs running the Windows 7, Windows XP or Windows 2000 operating systems.

Before installing an SR200 or SR300 printer on a client PC:

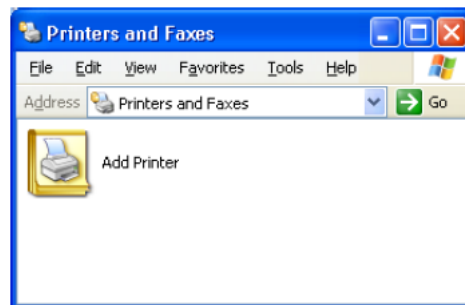
- Log on to the client PC as a user with administrator permissions. This is required for installing printers. The user installing at the client PC must also have authorization at the host PC to install the printer.
- Make sure that the client PC has network access to the host PC (where the printer is installed).
- Make sure that the printer is set for sharing. The icon in the Printers window includes a hand (Windows 2000 and XP) or a photo (Windows Vista) when sharing is enabled. Refer to Windows help for “Printer Sharing” for details regarding enabling printer sharing. 
- Make sure that the network printer driver is installed and working on the host PC. (Refer to [“Installing the Network Printer Driver”](#) on [page 68](#).)
- Make sure that the printer name does not have spaces in the name.
- You must know the computer name and workgroup name of the host PC to locate it on the network. Refer to Windows help for “computer name” for help finding the names.
- Users at the client PC must be authenticated, usually by logging in, at the host PC for printing to be allowed.

Setting up Sharing

This procedure represents an example of how to set up a client PC so that it can print cards to an SR200 or SR300 printer that is connected with a USB cable to a host PC.

The step-by-step procedure varies, depending on your PC's operating system. Please follow the requirements of your operating system when setting up sharing.

1. On the client PC, open the **Printers or Devices and Printers** window, following the steps for your operating system.



2. Click the **Add Printer** icon or button (or select **File > Add Printer** from the menu).

The Add Printer wizard displays.



3. Click **Next** to continue.

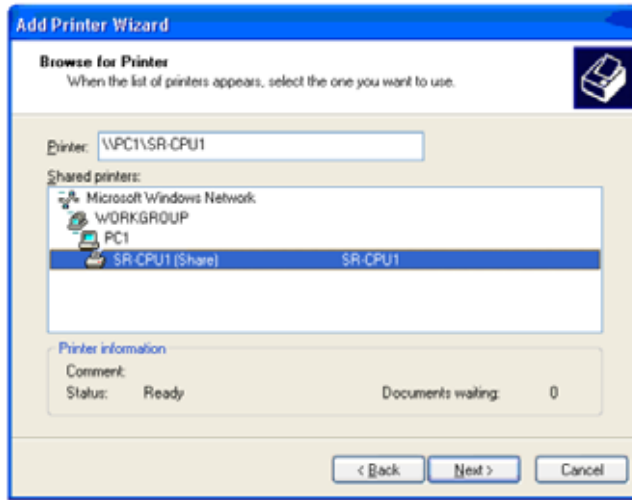
4. Select **A network printer, or a printer attached to another computer** and then click **Next**.



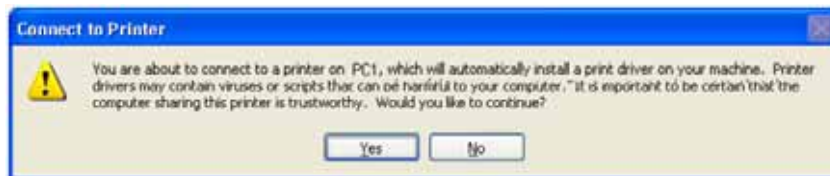
5. Log on to the host PC if prompted.
6. Select **Find a printer in the directory**, or select **Connect to this printer** with the **Name** field empty. Click **Next**.



7. Browse the network for the host PC computer name and then locate the shared printer attached to it.
8. Select **SR-CPU1 (Share)** or other printer name from the **Shared printers** list and then click **Next**.



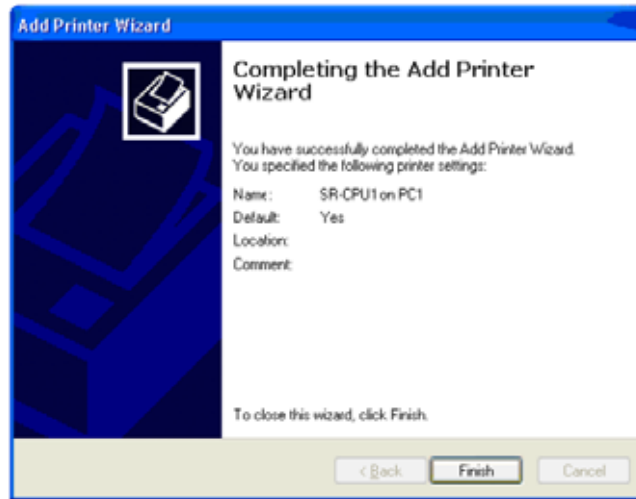
9. An information dialog box displays. Click **Yes** to continue.



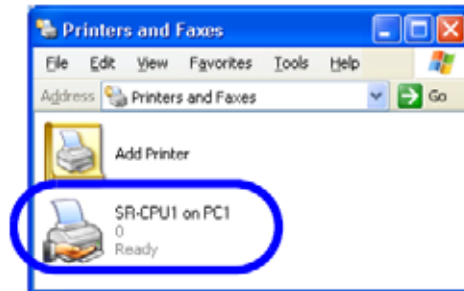
10. For Windows 2000, the wizard displays the following dialog box. Select **Yes** to make this printer the default, or **No** if you don't want this printer to be the default. Then, click **Next**.



11. Click **Finish**.



12. Open the Printers and Faxes window and make sure that the shared printer is displayed.



Installation of the shared printer on the client PC is complete.




Chapter 7: Removing Printer Driver and Status Monitor

7

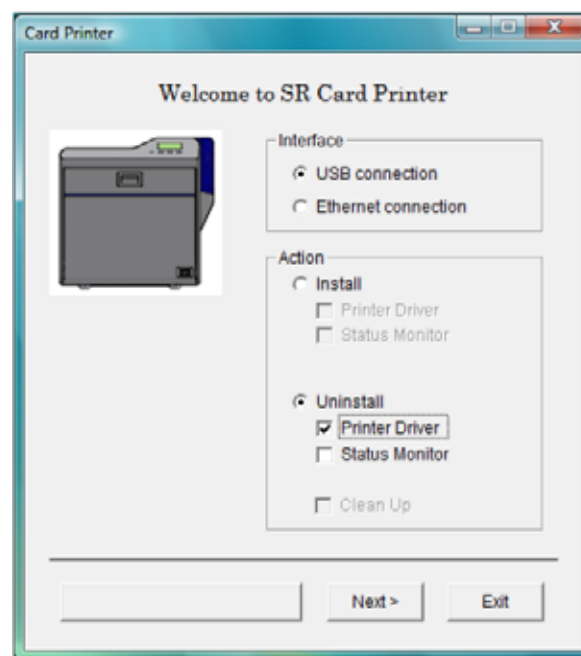
This chapter contains procedures for removing the printer driver and Status Monitor from the PC. Instructions are included for updating the printer driver if new versions become available.

Removing the Printer Driver

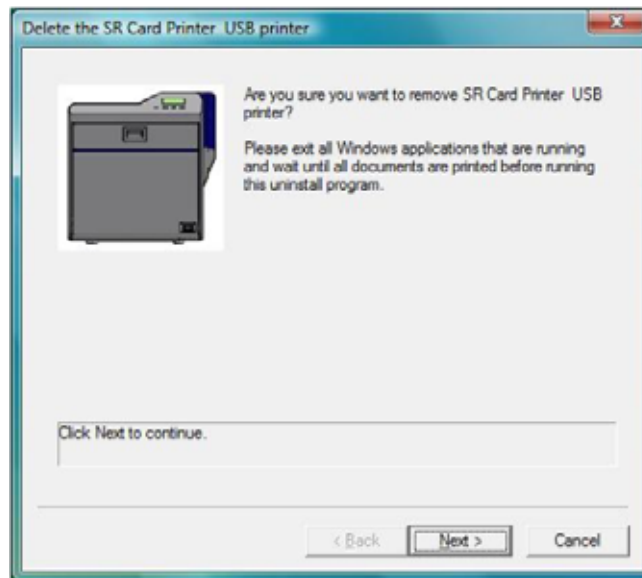
 Close all active programs before removing the printer driver.

For best results, begin with the printer powered on and connected to the PC.

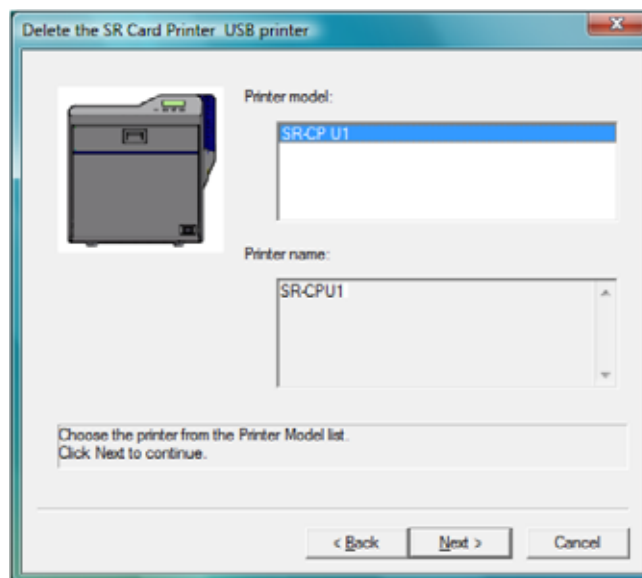
1. With Windows running, insert the printer Installation CD in the PC drive.
2. Click **Install the Printer**.
3. Click **Install the Driver**.
4. For Windows Vista, the User Account Control dialog displays. Click **Allow** to continue.
5. The “Welcome to SR Card Printer” dialog box opens.



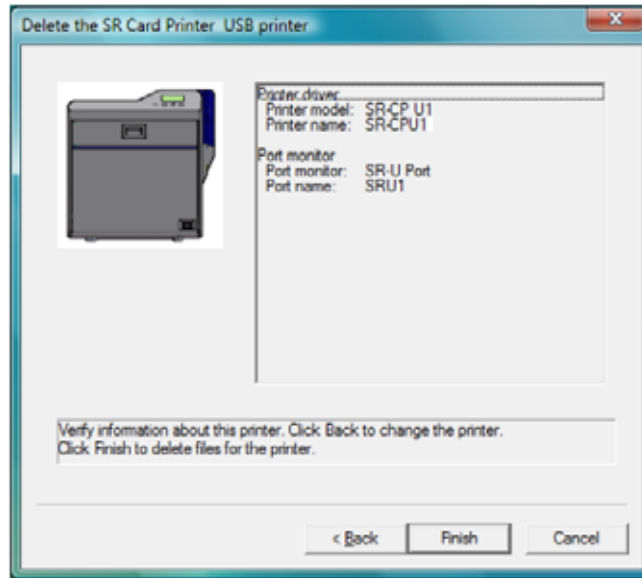
6. Make sure that the following are selected, and then click **Next**:
 - The type of connection—USB or Ethernet
 - Uninstall
 - Printer Driver
 - If the Status Monitor is installed and you are removing all SR200 or SR300 printers from the PC, remove it at the same time by selecting **Status Monitor** under **Uninstall**.
7. The opening dialog box displays. Click **Next** to continue.



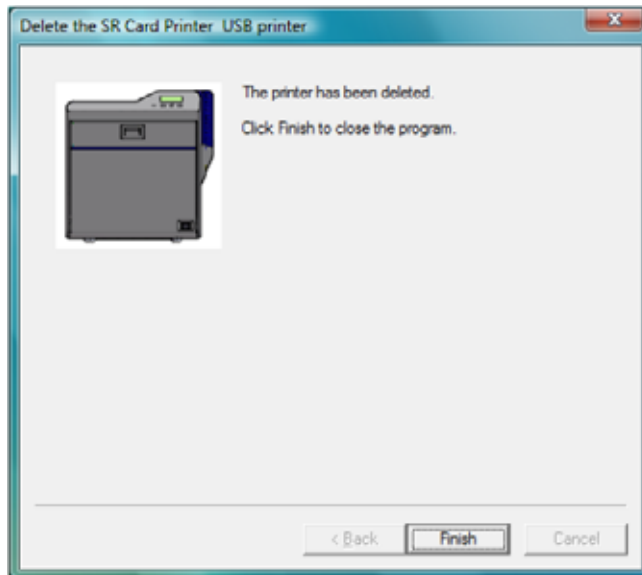
8. Select the printer from the **Printer model** list and then click **Next**.



9. Review the information in the dialog box that displays.
 - If you need to select a different printer, click **Back** and return to step 8.
 - If you do not want to remove the printer at this time, click **Cancel**.
 - To remove driver files, click **Finish**.



10. When the following dialog box displays, click **Finish**.



The printer driver has been removed.

11. Continue with removing the Status Monitor (below) if desired, or restart Windows.

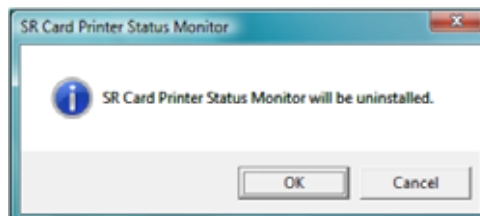
Removing the Status Monitor

Remove the Status Monitor after removing the printer driver from the PC.

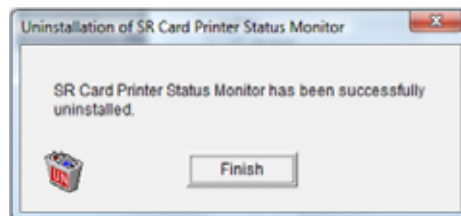
1. Begin with the “Welcome to SR Card Printer” dialog box open.
2. Make sure that the following are selected, and then click **Next**:
 - Uninstall
 - Status Monitor



3. Click **OK**.



4. If an uninstall dialog opens, click **Yes** to continue.



5. Click **Finish**. The Status Monitor shortcuts and files are removed from the PC.

6. Click **Exit** to close the “Welcome to SR Card Printer” dialog box.
7. Restart Windows.

Updating the Printer Driver

To update to a newer printer driver:

1. Remove the existing printer driver, as described in [“Removing the Printer Driver” on page 81](#). For best results, remove the Status Monitor also. Refer to [“Removing the Status Monitor” on page 84](#).
2. Restart Windows.
3. Install the newer printer driver, as described in [“Installing the USB Printer Driver” on page 27](#). or [“Installing the Network Printer Driver” on page 68](#).
4. Install the newer Status Monitor. Refer to [“Installing the Status Monitor” on page 55](#).

