

Release Notes

XPS Card Printer Driver SDK Version 8.8

This document provides a summary of updates to the XPS Card Printer Driver SDK.

This document includes:

- XPS Card Printer Driver SDK Version 8.8
- XPS Card Printer Driver SDK Version 8.7
- XPS Card Printer Driver SDK Version 8.6
- XPS Card Printer Driver SDK Version 8.5
- XPS Card Printer Driver SDK Version 8.4
- XPS Card Printer Driver SDK Version 8.2
- XPS Card Printer Driver SDK Version 8.0

Version Information

SDK Version:	8.8
Release Date:	September 2026

This SDK release supports Version 8.8 of the XPS Card Printer Driver for Microsoft Windows.

Supported Printers

The following products are supported by Entrust and are compatible with the XPS Card Printer Driver.

- Entrust® Datacard® SD Series: SD160™, SD260™, SD260L™, SD360™, SD460™ Card Printers
- Entrust® Datacard® CD Series: CD800™, CD800 with CLM, CD820™ Card Printers
- Entrust® Datacard® (formerly Artista) CR805, CR805 with Card Lamination Module, CR805 with Tactile Impresser Module
- Entrust® Datacard® CR803, CR803 with Card Lamination Module, CR803 with Tactile Impresser Module
- Entrust® Datacard® (formerly Sigma) DS1, DS2, DS2 with Card Lamination Module
- Entrust® Datacard® (formerly Sigma) DS3, DS3 with Card Lamination Module, DS3 with Tactile Impresser Module, DS3 with 3 input/3 output Multi-Hopper, and DS3 Direct-to-Card Printer with 600 DPI
- Entrust® EM1, EM2 Card Printers

Compatible Printers

The following products are no longer supported by Entrust but are compatible with the XPS Card Printer Driver.

- Entrust® Datacard® CE840™ Instant Issuance System
- Entrust® Datacard® CE870 Instant Issuance System
- Entrust® CL900™ Desktop Laser Personalization System

The information in this document applies to all supported and compatible printers. Printer-specific differences or exceptions are noted where necessary. Other Entrust printers may be compatible through the use of an RFID upgrade kit.

Supported Microsoft Windows Operating Systems

- Windows 11
- Windows 10 (32-bit and 64-bit)

- The XPS Card Printer Driver does not support USB installations using Windows 10 operating systems prior to version 2004. Installing on versions prior to 2004 will fail silently without displaying errors.
- Windows Server 2022 (only supports network printers)

The Printer Driver can be installed on computers powered by x86 and/or x64 processors.

Windows 7 SP1, Windows 8.1, Windows Server 2008 R2, Windows Server 2012 R2, and Windows Server 2016 are not supported by this version of the Card Printer Driver. Driver version 8.4 is available for these Windows versions.

Windows XP, Windows Vista, and Windows Server 2003 R2 are not supported by this version of the Card Printer Driver. Driver versions 6.x are available for these Windows versions.

An attribution table can be found at `\ProgramData\Datacard\XPS_Card_Printer\XPS_Card_Printer_Driver_Open_Source_Attribution_Table.html`

Runtime Dependencies

The compiled samples have the following runtime dependencies.

- C++ requires Microsoft Visual C++ 2017 Redistributable Package (x86 and x64), or newer. Use the following link to download the appropriate software package:
<https://www.microsoft.com/en-us/download/details.aspx?id=48145>
- C# and VB.NET require Microsoft .NET v4 Client Framework.

SDK New Features

This release of the SDK is only a version increment to keep it in sync with the Printer Driver version.

Known Issues

- The SD/CD color mode is not a supported option for Entrust® Datacard® DS3 printers at 600 DPI.
- Using "Cancel All" on multiple active jobs for the printer and driver will cause error 100. Entrust does not recommend canceling all jobs during batch printing. Multiple jobs are in progress in printer and driver, and canceling all jobs during processing will cause error 100. The preferred solution is to cancel only the failed job.
- For Entrust® Datacard® DS printers with laminator, the driver will not let the user print a card if the card design does not have lamination or topcoat on a card side that has color. Message 523 will be displayed.

- The Java SDK does not automatically close message dialog boxes.

XPS Card Printer Driver SDK Version 8.7

This document provides a summary of updates to the XPS Card Printer Driver SDK.

Version Information

SDK Version:	8.7
Release Date:	April 2025

This SDK release supports Version 8.7 of the XPS Card Printer Driver for Microsoft Windows.

Supported Printers

- Entrust® SD Series: SD160™, SD260™, SD260L™, SD360™, SD460™ Card Printers
- Entrust® CD Series: CD800™, CD800 with CLM, CD820™ Card Printers
- Entrust® CE840™ Instant Issuance System
- Entrust Artista® CR805, Artista® CR805 with Card Lamination Module, Artista® CR805 with Tactile Impresser Module
- Entrust Artista® CR803, Artista® CR803 with Card Lamination Module, Artista® CR803 with Tactile Impresser Module
- Entrust® CL900™ Desktop Laser Personalization System
- Entrust® Sigma DS1, DS2, DS2 with Card Lamination Module
- Entrust® Sigma DS3, DS3 with Card Lamination Module, DS3 with Tactile Impresser Module, DS3 with 3 input/3 output Multi-Hopper, and DS3 Direct-to-Card Printer with 600 DPI
- Entrust® EM1, EM2 Card Printers

The information in this document applies to all supported printers. Printer-specific differences or exceptions are noted, where necessary. Other Entrust printers may be supported through the use of a RFID upgrade kit.

Supported Microsoft Windows Operating Systems

- Windows 11
- Windows 10 (32-bit and 64-bit)
- Windows Server 2019
- Windows Server 2022

Runtime Dependencies

The compiled samples have the following runtime dependencies.

- C++ requires Microsoft Visual C++ 2017 Redistributable Package (x86 and x64), or newer. Use the following link to download the appropriate software package:
<https://www.microsoft.com/en-us/download/details.aspx?id=48145>
- C# and VB.NET require Microsoft .NET v4 Client Framework.

SDK New Features

- Added support to compile Java SDK samples with IntelliJ IDE.
- Updated XML samples for the Printer Status tab when connected to the Sigma DS3 Direct-to-Card Printer with 600 DPI.
- Added support to retrieve print resolutions for:
 - ColorPrintResolution
 - MonochromePrintResolution
 - TopcoatPrintResolution
 - FluorescentPrintResolution

XPS Card Printer Driver SDK Version 8.6

This document provides a summary of updates to the XPS Card Printer Driver SDK.

Version Information

SDK Version:	8.6
Release Date:	October 2024

This SDK release supports Version 8.6 of the XPS Card Printer Driver for Microsoft Windows.

Supported Printers

- Entrust® SD Series: SD160™, SD260™, SD260L™, SD360™, SD460™ Card Printers
- Entrust® CD Series: CD800™, CD800 with CLM, CD820™ Card Printers
- Entrust® CE840™ Instant Issuance System
- Entrust Artista® CR805, Artista® CR805 with Card Lamination Module, Artista® CR805 with Tactile Impresser Module
- Entrust Artista® CR803, Artista® CR803 with Card Lamination Module, Artista® CR803 with Tactile Impresser Module
- Entrust® CL900™ Desktop Laser Personalization System
- Entrust® Sigma DS1, DS2, DS2 with Card Lamination Module
- Entrust® Sigma DS3, DS3 with Card Lamination Module, DS3 with Tactile Impresser Module, DS3 with 3 input/3 output Multi-Hopper.
- Entrust® EM1, EM2 Card Printers

The information in this document applies to all supported printers. Printer-specific differences or exceptions are noted, where necessary. Other Entrust printers may be supported through the use of a RFID upgrade kit.

Supported Microsoft Windows Operating Systems

- Windows 11
- Windows 10 (32-bit and 64-bit)
- Windows Server 2019
- Windows Server 2022

Runtime Dependencies

The compiled samples have the following runtime dependencies.

- C++ requires Microsoft Visual C++ 2017 Redistributable Package (x86 and x64), or newer. Use the following link to download the appropriate software package:
<https://www.microsoft.com/en-us/download/details.aspx?id=48145>
- C# and VB.NET require Microsoft .NET v4 Client Framework.

SDK New Features

- Added support for SDK samples to detect the 3 input/3 output Multi-Hopper option and display an error if a user sends input hopper number positions other than 4, 5, 6, and Exception.
- Added support for SDK samples to have the 3 input/3 output Multi-Hopper's default input hopper position set to 4.
- Updated Hopper Status XML to accurately reflect input and output hopper status information.
- Added Adobe RGB ColorMode support for the Windows Driver and SDK.
- Updated CounterStatus2 XML to have the selection for all input hoppers and output hopper positions.
- Added support to select 3 input/3 output Multi-Hopper input hopper positions 4, 5, 6, and Exception in the Card Counters tab.
- Updated PrinterInfo2 XML to support 3 input/3 output Multi-Hopper options, including MultiHopper3WithExceptionSlot, InputHopper, OutputHopper.
- Added support for the "Type" and "Status" fields in the Hopper Status tab to display 3 input/3 output Multi-Hopper information.
- Added support for the Printer Status tab to display 3 input/3 output Multi-Hopper information.
- Added Omnikey support for the Java SDK.
- Added "Wake" and "Sleep" commands, where the "Wake" command instructs the printer to bring the thermal printhead to the specified operating temperature, and the "Sleep" command puts the printer into hibernation mode.
- Added Java 17 support for Java SDK JAR files.

Improvements and Resolved Issues

- Fixed an issue where using the "smartcard" SDK sample with the "-p" option to print to an SD260S printer displays an error that a print head is not installed.
- Removed support for the Copy Count feature when using Print Sample.
- Fixed an issue where SDK commands to change ColorMode were not being set correctly in the printer when using the 8.6.0 driver.
- Fixed an issue where using the GetHopperStatus() SDK call led to a memory leak, allowing the printer spooler memory to grow.
- Fixed an issue where print and Smart Card print jobs were getting stuck in the print spooler and displaying error 506.
- Fixed an issue where "Card Stock" was removed from the hopper status XML, causing backwards compatibility errors.
- Fixed an issue where the "status.exe -j" SDK command would not submit a print job.

- Fixed an issue where the driver did not return the Input Hopper 1 status correctly for a single-hopper Sigma printer.
- Fixed an issue where the Java Print.jar file incorrectly blocked topcoat printing for magstripe cards.
- Fixed an issue where Java SDK samples did not parse "installed" options, causing a "100 - request not supported" error.

XPS Card Printer Driver SDK Version 8.5

This document provides a summary of updates to the XPS Card Printer Driver SDK.

Version Information

SDK Version:	8.5
Release Date:	July 2023

This SDK release supports Version 8.5 of the XPS Card Printer Driver for Microsoft Windows.

Supported Printers

- Entrust® SD Series: SD160™, SD260™, SD260L™, SD360™, SD460™ Card Printers
- Entrust® CD Series: CD800™, CD800 with CLM, CD820™ Card Printers
- Entrust® CE840™ Instant Issuance System
- Entrust Artista® CR805, Artista® CR805 with Card Lamination Module, Artista® CR805 with Tactile Impresser Module
- Entrust Artista® CR803, Artista® CR803 with Card Lamination Module, Artista® CR803 with Tactile Impresser Module
- Entrust® CL900™ Desktop Laser Personalization System
- Entrust® Sigma DS1, DS2, DS2 with Card Lamination Module
- Entrust® Sigma DS3, DS3 with Card Lamination Module, DS3 with Tactile Impresser Module
- Entrust® EM1, EM2 Card Printers

The information in this document applies to all supported printers. Printer-specific differences or exceptions are noted, where necessary. Other Entrust printers may be supported through the use of a RFID upgrade kit.

Supported Microsoft Windows Operating Systems

- Windows 11
- Windows 10 (32-bit and 64-bit)
- Windows Server 2016
- Windows Server 2019
- Windows Server 2022

Runtime Dependencies

The compiled samples have the following runtime dependencies.

- C++ requires Microsoft Visual C++ 2017 Redistributable Package (x86 and x64), or newer. Use the following link to download the appropriate software package:
<https://www.microsoft.com/en-us/download/details.aspx?id=48145>
- C# and VB.NET require Microsoft .NET v4 Client Framework.

SDK New Features

- Added new Kiosk samples to allow user to select hopper for front or rear pick, and select hopper output locations and how the card will be ejected.
- Added new Java samples for Single-Wire Omnikey Smart Card.
- Added new Java samples for Single-Wire MIFARE Smart Card.

Improvements and Resolved Issues

- Updated Java printer_control sample to allow color mode information to be sent to printer.
- Updated Java printer_status sample to retrieve color mode information from printer.
- Added support for control request to Visual C++, Visual C#, and VB.NET for Single-Wire Omnikey Smart Card Sample.
- Updated Eclipse instructions for Version 4.27.0.

XPS Card Printer Driver SDK Version 8.4

This document provides a summary of updates to the XPS Card Printer Driver SDK.

Version Information

SDK Version:	8.4
Release Date:	September 2022

This SDK release supports Version 8.4 of the XPS Card Printer Driver for Microsoft Windows.

Supported Printers

- Entrust® SD Series: SD160™, SD260™, SD260L™, SD360™, SD460™ Card Printers
- Entrust® CD Series: CD800™, CD800 with CLM CD820™ Card Printers
- Entrust® CE840™ Instant Issuance System
- Entrust® CR805™, CR805 with CLM, CR805 with TIM Retransfer Card Printer
- Entrust® CL900™ Desktop Laser Personalization System
- Entrust® Sigma DS1, DS2, DS3, DS3 with CLM, DS3 with TIM Direct to Card Printers, DS4K, DS4-ES1K
- Entrust® EM1, EM2 Direct to Card Printers

Supported Microsoft Windows Operating Systems

- Windows 11
- Windows 10 (32-bit and 64-bit)
- Windows 8.1 (32-bit and 64-bit)
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2 (64-bit)

Runtime Dependencies

The compiled samples have the following runtime dependencies.

- C++ requires Microsoft Visual C++ 2017 Redistributable Package (x86 and x64), or newer. Use the following link to download the appropriate software package:
<https://www.microsoft.com/en-us/download/details.aspx?id=48145>
- C# and VB.NET require Microsoft .NET v4 Client Framework.

SDK New Features

- Updated sample project files to use Visual Studio 2017.
- Updated SDK samples to compile using Visual Studio Community 2022.
- Updated SDK samples to compile using Visual Studio 2022.
- Add support for LCM. There are no SDK commands or user interface for LCM. Driver will automatically cure the card when it detects LCM option. User must have durable graphics ribbon in LCM printer and install v8.4 driver.

Improvements and Resolved Issues

- Fixed issue in which the Java SDK would sometimes did not print on the card.
- Fixed issue in which C# when smartcard sample was printing off the edge of card.

XPS Card Printer Driver SDK Version 8.2

This document provides a summary of updates to the XPS Card Printer Driver SDK.

Version Information

SDK Version:	8.2
Release Date:	August 2021

This SDK release supports Version 8.2 of the XPS Card Printer Driver for Microsoft Windows.

Supported Printers

- Entrust® SD Series: SD160™, SD260™, SD260L™, SD360™, SD460™ Card Printers
- Entrust® CD Series: CD800™, CD800 with CLM CD820™ Card Printers
- Entrust® CE840™ Instant Issuance System
- Entrust® CR805™, CR805 with CLM, CR805 with TIM Retransfer Card Printer
- Entrust® CL900™ Desktop Laser Personalization System
- Entrust® Sigma DS1, DS2, DS3, DS3 with CLM, DS3 with TIM Direct to Card Printers, DS4K, DS4-ES1K
- Entrust® EM1, EM2 Direct to Card Printers

Supported Microsoft Windows Operating Systems

- Windows 10 (32-bit and 64-bit)
- Windows 8.1 (32-bit and 64-bit)
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2 (64-bit)

SDK New Features

- Updated SDK sample to add support for Kiosk Rear Pick for Sigma DS4K and DS4-ES1K printers
- Add support to specify rear pick option - Only SDK application can specify rear pick option.
- Updated SDK Samples to change Color Mode

Improvements and Resolved Issues

- SDK samples now can pick a card from the exception hopper.
- Removed warnings generated when running Java samples.
- Changed the name of the smartcard_singlewire_mifare sample to smartcard_singlewire_duali_mifare. Also updated the sample to write data to block 21.

XPS Card Printer Driver SDK Version 8.0

This document provides a summary of updates to the XPS Card Printer Driver SDK.

Version Information

SDK Version:	8.0
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Release Date:	October 2020
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This SDK release supports Version 8.0.016 of the XPS Card Printer Driver for Microsoft Windows.

Supported Printers

- Datacard® SD Series: SD160™, SD260™, SD260L™, SD360™, SD460™ Card Printers
- Datacard® CD Series: CD800™, CD800 with CLM laminator, CD820™ Card Printers
- Datacard® CE840™ Instant Issuance System
- Datacard® CE870™ Kiosk System
- Entrust Datacard™ CR805™ Retransfer Card Printer
- Entrust Datacard™ CL900™ Desktop Laser Personalization System
- Entrust™ Sigma DS2, DS2, and DS3 Direct to Card Printers
- Entrust™ Sigma DS4 Instant Issuance System
- Instant Issuance Systems that are Driver Enabled

Supported Microsoft Windows Operating Systems

- Windows 10 (32-bit and 64-bit)
- Windows 8.1 (32-bit and 64-bit)
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2 (64-bit)

SDK New Features

- Added support for new error messages for the Tactile Impression Module and Sigma direct to card printers.
- Added support for primerless ribbon (CMYK and CMYK-K) for retransfer card printers.
- Added support for ribbons with a Luster panel (YMCKL-KT) for Sigma direct to card printers.
- Updated the PrinterOptions2 XML and PrinterSupplies3 XML to return information for the Tactile Impression Module.

- Created C++, C#, and VB.NET samples to demonstrate the use of OmniKey smart card commands.
- Updated the C++, C#, and VB.NET print samples to place an impression on the front or back of a card with the Tactile Impression Module.
- Added support to the C++, C#, and VB.NET printer_control samples for the following:
 - Start the printer cleaning process.
 - Shut down the printer.
- Upgraded the SDK to support Visual Studio 2019 and Visual Studio 2017.
- Added information about when it is necessary to disable Spectre mitigation.
- Added support for Windows Server 2019

Improvements and Resolved Issues

- SDK samples now can pick a card from the exception hopper.
- Removed warnings generated when running Java samples.
- Changed the name of the smartcard_singlewire_mifare sample to smartcard_singlewire_duali_mifare. Also updated the sample to write data to block 21.