



Release Notes

Scanner SDK for Windows v3.4
April 2019

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Overview

The Zebra Scanner Software Developer Kit (SDK) for Windows providing a single programming interface across multiple programming languages (such as MS .NET, C++, Java) for all scanners communication variants (such as IBMHID, SNAPI, HIDKB, Nixdorf Mode B, etc.).

The Zebra Scanner SDK includes a suite of components that provides a unified software development framework.

The SDK installation package includes following components.

- Zebra Scanner SDK Core components and drivers (COM API, Imaging drivers)
- Scanner OPOS and JPOS Drivers
- Scale OPOS and JPOS Drivers
- TWAIN Imaging Driver
- Bluetooth support for Windows 7 and higher
- Remote Management Components
 - Scanner WMI Provider



- Driver WMI Provider
- Web Link to latest Developer's Guide - Document(s)
- Microsoft® Visual Studio Project Template for Zebra Scanner SDK
- Test & Sample utilities with Source code packages
 - Zebra Scanner SDK Sample Application (C++)
 - Zebra Scanner SDK Sample Application (Microsoft® C# .NET)
 - Scanner OPOS Driver Test Utility (C++)
 - Scale OPOS Driver Test Utility (C++)
 - Scanner/Scale JPOS Driver Test Utility (Java)
 - TWAIN Test Utility (C++)
 - Scanner WMI Provider Test Utility (Microsoft® C# .NET)
 - Driver WMI Provider Test Utility (Microsoft® C# .NET).

With this SDK, you can read bar codes, manage scanner configurations, capture images/videos and selectively choose a list of scanners on which to work. While one application is in one programming language using a scanner or a set of scanners, another application in a different language can be used differently within the same system environment.

The SDK can build an application with complete control of its scanner's capabilities.

- Barcode data
 - Simulated HID Keyboard output
 - OPOS/JPOS output
 - SNAPI output
- Command and Control
 - LED and Beeper Control
 - Aim Control
- Imaging
 - Capture / Transfer of Images
 - View Video
 - Simultaneous capture barcode data and an image with one trigger pull using Intelligent Image Capture (IDC)
- Remote Scanner Management
 - Asset Tracking
 - Device Configuration (Get, Set and Store Scanner attributes)
 - Firmware Update
 - Scanner Communication Protocol Switching
 - Service to Automate Configuration / Firmware Upgrade Process

For the latest SDK updates, please visit [Zebra Scanner SDK](#)

For support, please visit <http://www.zebra.com/support>.

Device Compatibility

For the compatible devices list, please visit following page.

<https://www.zebra.com/us/en/support-downloads/software/developer-tools/scanner-sdk-for-windows.html>



Version History

Version 3.04.0002 – 04/2019

1. Added customizable logging module to CoreScanner. A user can now format the log file output to include parameters and layout from predefined options.
2. Simulated HID Keyboard output, now handles German by setting “Keyboard emulation/locale” to “Default” in the SDK demo application. Other languages supported include English and French.

Version 3.03.0016 - 02/2019

1. Fixed some bugs and improved stability in TWAIN driver.
2. Fixed an issue in Scanner WMI provider which missing firmware download events.
3. Fixed an issue with OPOS binary conversion.

Version 3.03.0013 – 11/2018

1. Fixed firmware update failure (low occurrence problem).
2. Updated SNAPi driver. It now includes a Microsoft signature.
3. Implemented Scale OPOS driver beep on good read weight. This is a custom feature implemented to address a customer issue which can be enable through Windows registry configurations.
4. Added support for NCR Direct IO command (DIO_NCR_SCAN_TONE)
5. Introduced support for barcodes encoded with Windows’ code pages like Russian and Korean.
6. Introduced registry entries
 - a. to control the value of the OPOS Power State property.
 - b. to configure scale behavior.
 - c. to configure Windows’ code pages.
7. Introduced support for the NCR direct I/O command to get the “Scale live weight” data.
8. Fixed a security vulnerability – Exe execution can no longer introduce a shell command injection via filename.
9. Fixed firmware update progress event missing issue with Scanner WMI provider.
10. Minor bug fixes.

Version 3.2 – 08/2017

1. Updated JPOS sample application to demonstrate Direct I/O functionality.

Version 3.1 – 09/2016

1. Bluetooth support for cordless scanners without a cradle on Windows 7, 8 and 10 using Microsoft’s Bluetooth stack.
2. OPOS support for “Not On File Beep” NCR capability.
3. Source codes of Sample Applications updated to support Microsoft Visual Studio 2010 and above.



Version 3.0 – 03/2016

1. Rebranded Scanner SDK.
2. Supports Windows 10 (32 and 64 bit).

Version 2.6 – 11/2015

1. Support for RFD8500 firmware update.

Version 2.5 – 07/2015

1. Support for new MP6000 firmware features.
2. Stability enhancements.

Version 2.4 – 08/2014

1. OPOS Direct IO support.
2. JPOS supports both 64bit and 32bit JVMs on 64bit platforms.
3. Added support for 32bit OPOS drivers on 64bit platforms.
4. Bug fixes.
5. Security enhancements to address potential security vulnerabilities.

Version 2.3 – 05/2014

1. Driver ADF support.
2. MP6000 Scale Live Weight Event support.
3. Microsoft® Visual Studio Project Template provided for Zebra Scanner SDK.
4. Bug fixes.

Version 2.2 – 12/2013

1. Supports Windows 8/8.1 (32 and 64 bit).
2. Bug fixes.

Version 2.1 – 08/2013

1. Inter key delay feature in HID Keyboard emulation.
2. Bug fixes.

Version 2.0 – 06/2013

1. Optimized log file operation.
2. IBM Table Top host interface support.
3. MP6000 scale commands added.
4. MP6000 scale support for OPOS and JPOS.
5. DWORD attribute support.
6. Unsolicited scanner events (Topology changes and Decode data) support (Scanner firmware support required).
7. Statistics support (Scanner firmware support required).



Version 1.2 – 08/2012

1. Codeless scanner plug-n-play events added (Require Firmware update, check scanner PRGs for firmware support availability).
2. Simple Data Formatting feature added for emulated keyboard data.
3. TWAIN Custom capabilities added.
4. SNAPI scanner support added to Scanner WMI Provider.
5. Enhanced InstallShield with more custom installation options.
6. OPOS driver modified to support Multi-threaded apartment (in-proc/out-proc) POS applications (clients).
7. Host variant switching support added for scanners with NULL synapse buffer

Version 1.1 – 03/2012

1. 64-bit Windows 7 support added.
2. TWAIN imaging interface supported.
3. USB-CDC Serial Emulation mode supported. Com protocol switching partially supported – able to programmatically switch into USB-CDC host mode but not exist.

Version 1.0 – 07/2011

1. Supports Windows XP SP3 (32-bit) and Windows 7 (32-bit)
2. RSM 2.0 Scanner Support
3. SNAPI faster firmware download support
4. Programmatic Host Variant Switching support
5. HID Keyboard Emulation support for English and French language keyboards

Components

If the default install location is not changed, the components are installed in the following folders:

Component	Location
Common Components	%ProgramFiles%\Zebra Technologies\Barcode Scanners\Common
Scanner SDK	%ProgramFiles%\Zebra Technologies\Barcode Scanners\Scanner SDK
Scanner OPOS Driver	%ProgramFiles%\Zebra Technologies\Barcode Scanners\Scanner SDK\OPOS
Scanner JPOS Driver	%ProgramFiles%\Zebra Technologies\Barcode Scanners\Scanner SDK\JPOS
Scanner WMI Provider	%ProgramFiles%\Zebra Technologies\Barcode Scanners\Scanner SDK\WMI Provider Scanner
Driver WMI Provider	%ProgramFiles%\Zebra Technologies\Barcode Scanners\Scanner SDK\WMI Provider Driver
TWAIN Driver	%WinDir%\twain_32\Zebra – On 32/64bit version



	%WinDir%\twain_64\Zebra – On 64bit version
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Component specific binaries, Sample applications, Sample Application source (code) projects will be installed under components base folders.

Installation

Installation of a new release replaces previous versions of Zebra Scanner SDK and common components.

Supported operating systems:

- Windows XP SP3 32bit
- Windows 7 32bit and 64bit
- Windows 8/8/1 32bit and 64bit
- Windows 10 32bit and 64bit

Microsoft .Net framework and/or Java JDK/JRE, will not be installed with this installation package. Users are advised to install both the components independently.

External Dependencies

1. C# .Net Sample Applications require .NET framework be available on the target computer.
2. JPOS requires JRE/JDK 1.6 or above to be available on the target computer.