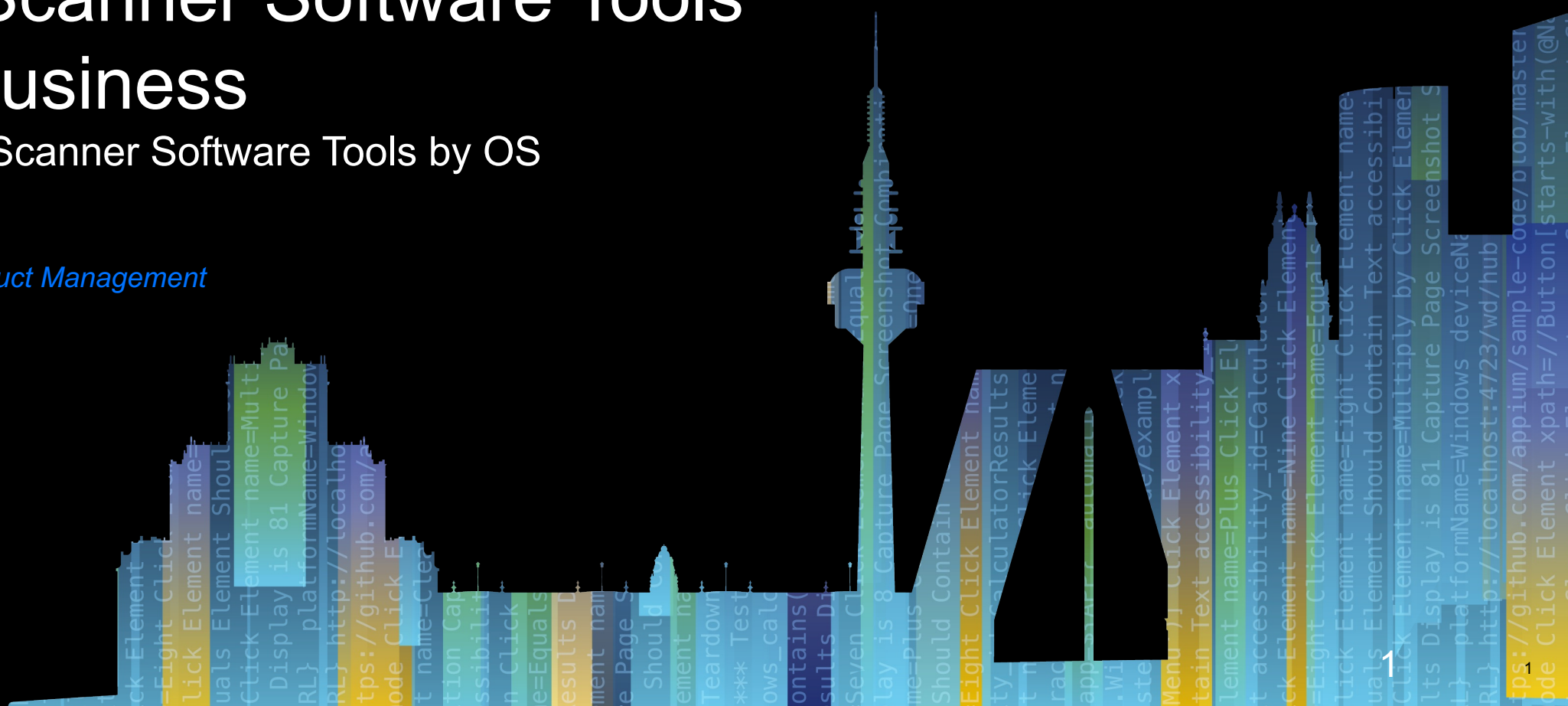


Zebra's Scanner Software Tools Unlock Business

Overview of All Scanner Software Tools by OS

Ken Bhella

Director Software Product Management



Overview of All Scanner Software Tools by OS

Course Description



Come learn how Zebra's scanner software can save you money by solving your problems, at virtually no development cost

This software can improve your Return on Investment (ROI) and reducing your Total Cost of Ownership (TCO)

- Barcode Data Transmission
- Remote Management for Firmware Updates
- Real Time Event Tracking
- Asset Information Tracking
- And more ...

Supported OSs: Windows, Linux, Android, iOS, SKY (4690) and Xamarin

Our Design Philosophy

Simpler is Better

We make our software simple and easy to use.

- Technical Documentation (Setup, APIs, Sample App ...) on [TechDocs](#)
- Sample Source Code on [GitHub](#)
- Sample Apps demonstrate API usage (Great for debugging your app)
- Wizards guide you through processes
- Quarterly Email Blast – [Evolution Update](#) - What's New
- How-to-videos on [YouTube](#)

Demo – 123Scan (2 million + downloads)

- Wizard guides config files creation
- Search box gets you to what you want faster
- “App Developer Report” list parameter names and numbers



Zebra Evolution Updates

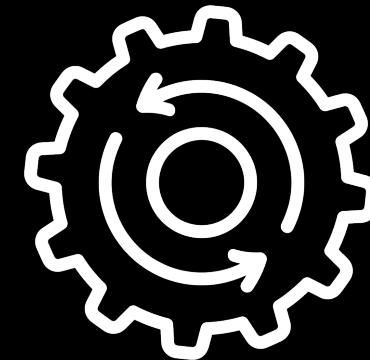
Scanner Firmware and Software Tools Updates



- **Quarterly email updates** – What's new for your scanner: [Click to subscribe](#)

- **Firmware Updates by Scanner Model (Example)**

- | | |
|---------------------------------------|---------------------------------|
| - UDI Scan+ | - Multiple products like DS8178 |
| - Label Parse+ | - Multiple products like DS8178 |
| - BloodBag Parse+ | - Multiple products like DS8178 |
| - GS1 Updates as new AIs are released | - Multiple products like DS8178 |
| - Virtual Tether | - Multiple products like DS8178 |
| - AutoConfig through the cradle | - Multiple products like DS8178 |
| - Multi-Code Data Formatting (MDF) | - MP7000 specific enhancements |
| - Preferred Symbol in Handsfree mode | - MP7000 specific enhancements |
| - ADF over USB SNAPi | - MP7000 specific enhancements |
| - Selectable Label Identifiers | - MP7000 specific enhancements |

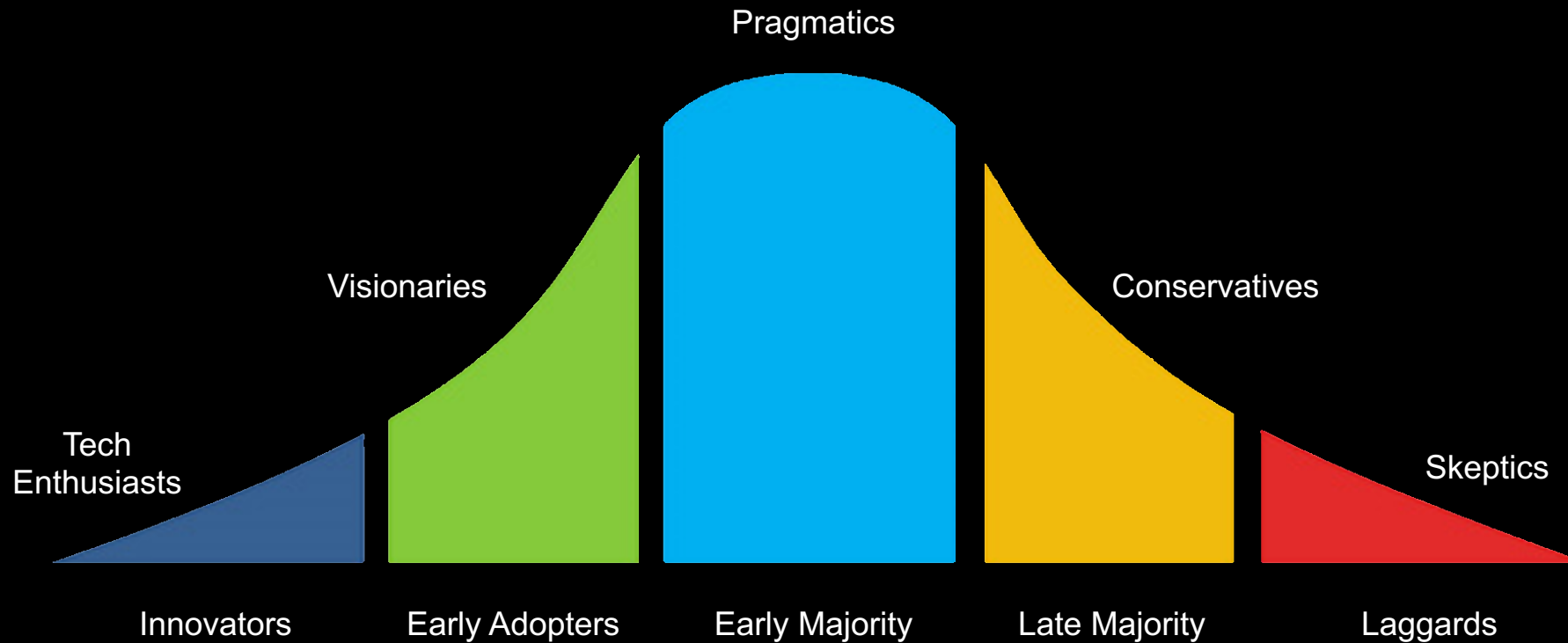


Update...

- **Software Tools Updates (Example)**

1. 123Scan Version 5.03.0017 – 04/2022
 - SMS package wizard enhancement – Added configurable option to delete SMS package after loading
 - SMS package wizard enhancement – Force config load even if the config already present on scanner
2. Barcode Scanner SDK for Windows Version 3.06.0018 – 04/2022
 - Toshiba Global Commerce Solutions (TGCS) POS system support enhanced - OPOS driver enhanced to supports System Management information calls

Where Are You on the Software Adoption Curve



Windows

Linux

Android

iOS

4690

Xamarin



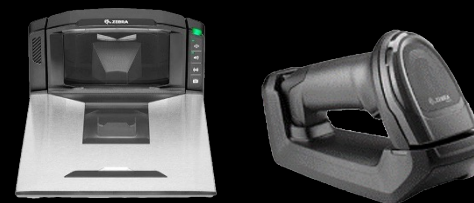
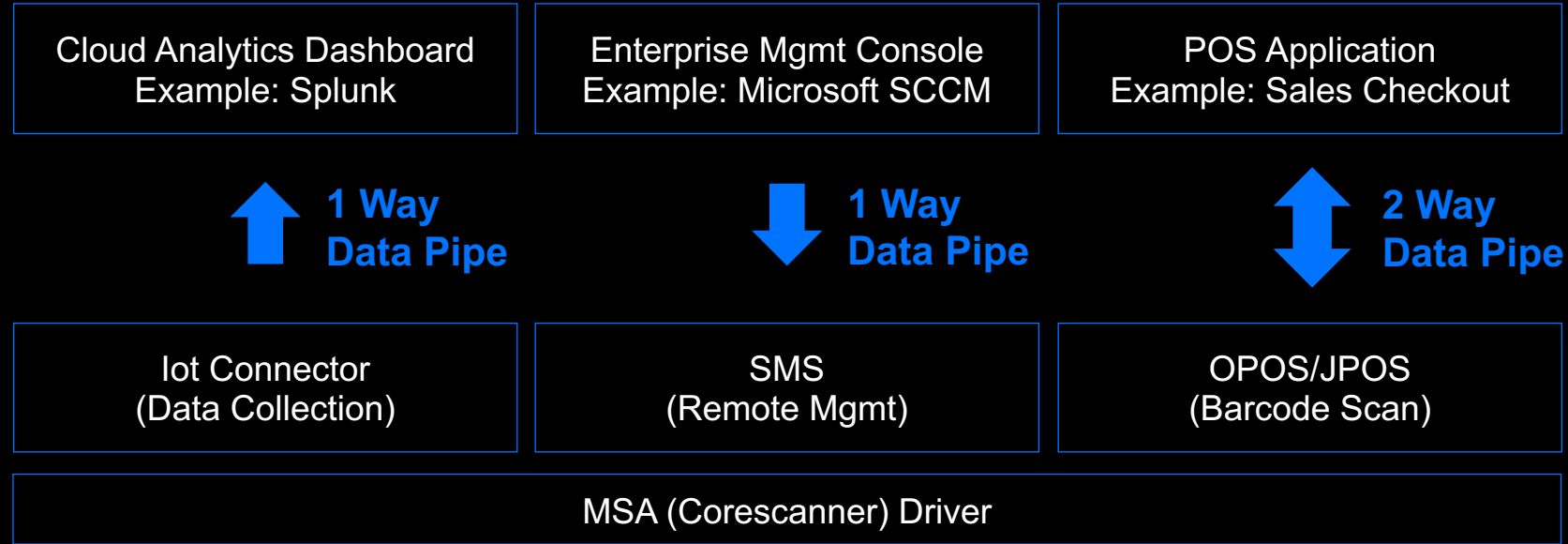
Lower TCO with the Modular Solution Architecture

Zebra's "Modular Solution Architecture" (MSA) provides you off-the-shelf software solutions to address your most burning problems, no coding required.

A Suite of Enterprise Ready Modules

- Barcode Data – Scan and Transmit
- Remote Management – Configuration & Firmware
- Event Logging – Predictive Analytics, Troubleshooting, Asset Tracking

Drop-in ready, just configure an XML file, *no development required*



Windows

Linux

Android

iOS

4690

Xamarin



- 123Scan*
 - OPOS / JPOS Drivers
 - Simulated HID Keyboard
 - Active Focus Manager (ADM)
 - Driver Data Formatting (DDF)
 - SMS* / WMI / PowerShell
 - IoT Connector (IoTC)
 - Cordless ScanToConnect Utility
 - Windows SDK
- Scanner configuration
 - Bundled as part of our Windows SDK
 - Scan into an app in simulated HID Keyboard
 - Scan into active OS window
 - Data formatting done on the driver, not scanner
 - Remote management solution
 - Send scanners info. to your data lake (cloud database)
 - Barcode pairs scanner to PC's BT radio (no cradle)
 - App development

* Live Demo

Blue = MSA Modules

Windows

Linux

Android

iOS

4690

Xamarin



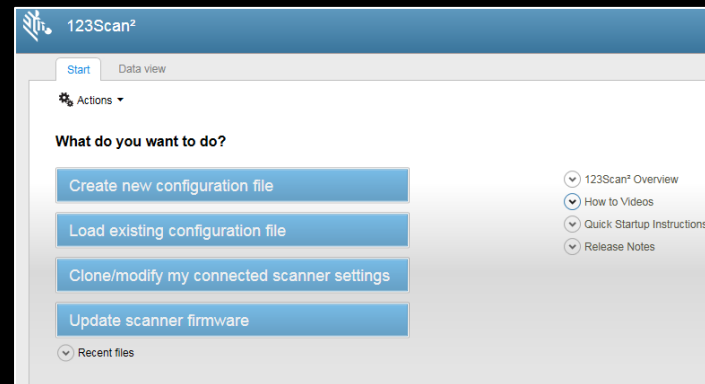
123Scan is your way to configure a Zebra Scanner

Since launching in 2009, we have over a million downloads / users and still growing

Live Demonstration

1. Device configuration*
2. DataView
3. Firmware update
4. Mass upgrade mode
5. Generate a SMS Package*

* Live Demo

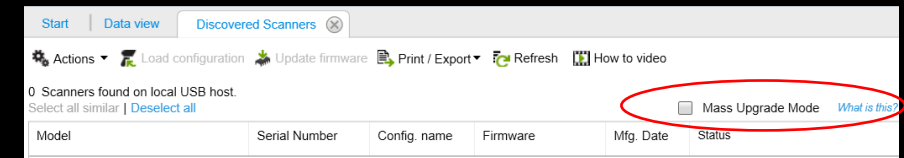
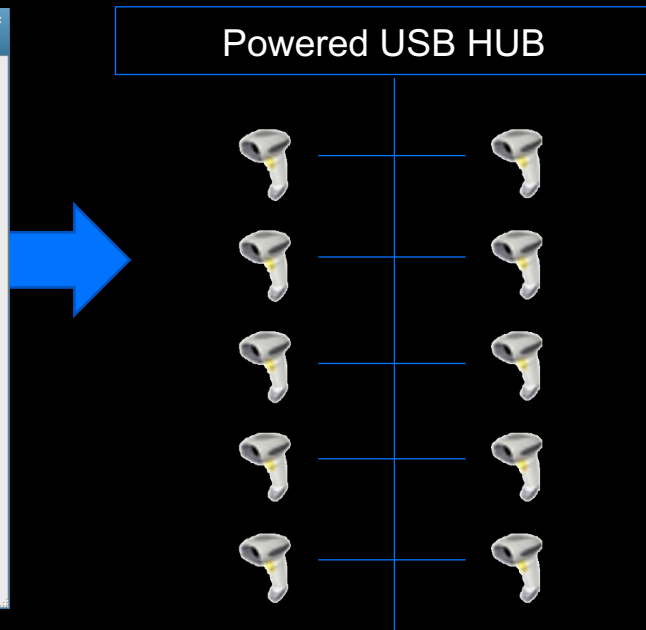
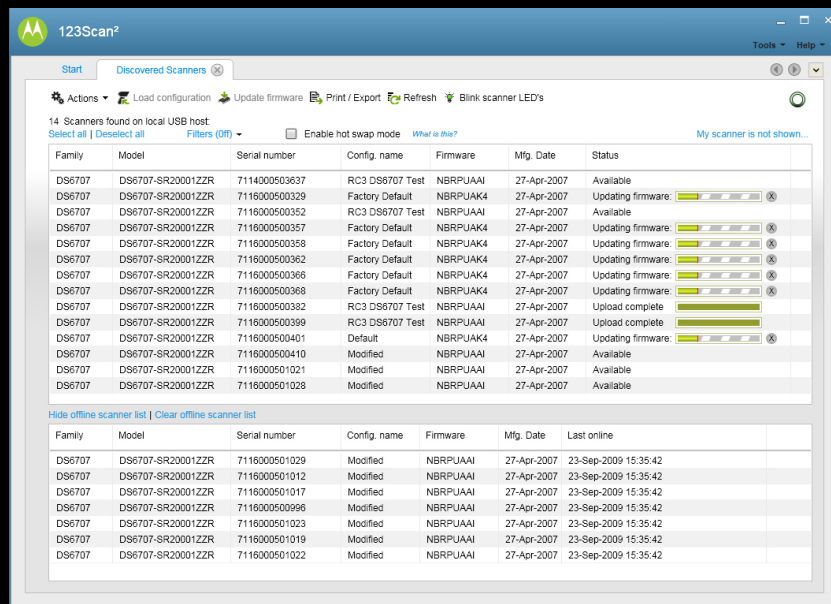


MSA
Module



123Scan's Mass Upgrade Mode

- Stage an unlimited number of similar model number scanners (up to 10 at a time)
- Load configuration settings and / or update firmware
- 123Scan loads to scanner. When done, unplug it, and plug in next scanner. Load auto starts.



Windows

Linux

Android

iOS

4690

Xamarin

SMS



Create SMS Package using 123Scan²



Deploy Package using your network tools



SMS agent loads Package to scanner

Generate



Deploy



Load



Use 123Scan

- Create an SMS Package
 - Specify – When to load & Model
 - Select a configuration file
 - Select firmware

Use Your Tools to Deploy Files to Target PC

- One time - Deploy & Load SMS
- Second - Deploy SMS Package

Scanner Management Service

- Run Scanner Management Service
- Attach USB Scanner
- Scanner is automatically configured
 - Loads firmware and settings from configuration file
 - Query asset tracking information

Windows

Linux

Android

iOS

4690

Xamarin



IoT Connector (IoTC)



IoTC

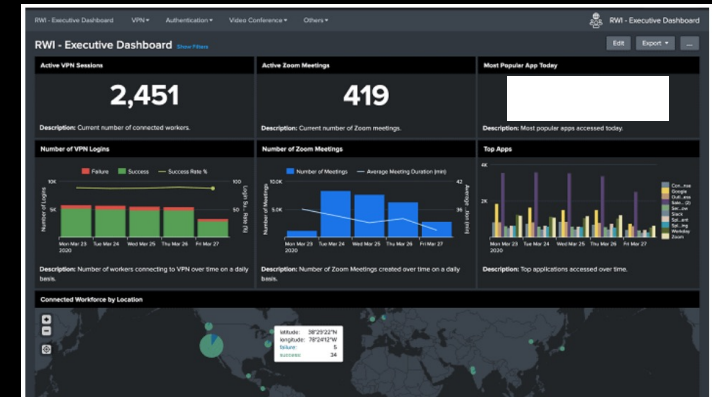
Real Time Alerts



(JSON Format)

Part of Zebra's Modular Solution Architecture Resides on the Host

Your Console like Splunk



- Chart Data
- Send Email Alert
- Send Text Alert (Cellular)
- Create Tracking Ticket

Windows

Linux

Android

iOS

4690

Xamarin



Scanner SDK for Windows (Desktop)

Develop full featured applications for your scanner

- Capture image, video, barcode; Control beeper, aimer, LEDs; and more...
- Drivers (Co rescanner, WMI, Powershell, OPOS, JPOS)
- Application Program Interface (API for C++ / C# / VB.NET)
- Visual Studio Project Templates
- Sample Utilities including Source Code
- Technical Documentation: [Available on TechDocs](#)
- How to Videos: [1 Minute Product Tour, Installation and Validation & Programming Basics](#)

Supported OSs: Windows (10 and 11)

Windows

Linux

Android

iOS

4690

Xamarin

Zebra’s “**Modular Solution Architecture**” (MSA) provides you off-the-shelf software solutions to address your most burning problems, no coding required.

Cloud Analytics Dashboard
Example: Splunk

Enterprise Mgmt Console
Example: Microsoft SCCM

POS Application
Example: Sales Checkout



A Suite of Enterprise Ready **Modules**

IoT Connector
(Data Collection)

SMS
(Remote Mgmt)

OPOS/JPOS
(Barcode Scan)

MSA (Corescanner) Driver

- Barcode Data – Scan and Transmit
- Remote Management – Configuration & Firmware
- Event Logging – Predictive Analytics, Troubleshooting, Asset Tracking

- Drop-in ready, just configure an XML file, **no development required**



Windows

Linux

Android

iOS

4690

Xamarin



- JPOS Drivers
 - Simulated HID Keyboard
 - Active Focus Manager (ADM)
 - Driver Data Formatting (DDF)
 - SMS
 - IoT Connector (IoTC)
 - Command Line Utility (CLU)
 - Linux SDK
- Bundled as part of our SDK
 - Scan into an app in simulated HID Keyboard
 - Scan into active OS window
 - Data formatting done on the driver, not scanner
 - Remote management solution
 - Send scanners info. to your data lake (cloud database)
 - Scripting: Parameters, firmware and asset info. retrieval
 - App development

Blue = MSA Modules

Windows

Linux

Android

iOS

4690

Xamarin



- SDK
 - App development
- Scanner Control App Utility
 - Google Play - Scanner controlled by phone/tablet
- Cordless ScanToConnect Utility
 - Google Play (Barcode pairs scanner to tablet BT radio)

Windows

Linux

Android

iOS

4690

Xamarin



- SDK
 - App development
- Scanner Control App Utility
 - App Store - BT scanner (no cradle) controlled by phone

Windows

Linux

Android

iOS

4690

Xamarin



- Native Remote Management - Utilize SKY (4690) OS' to remotely manage functionality

Windows

Linux

Android

iOS

4690

Xamarin



- SDK* for Android and iOS - App development

* Zebra Scanner SDK for Xamarin enables a developer to build native applications (wrapper) to connect and control Zebra Barcode scanners over a Bluetooth connection (no cradle involved) on iOS and Android devices from a single, shared C# codebase.

Windows

Linux

Android

iOS

4690

Xamarin



Online Resources

1. Marketing Material

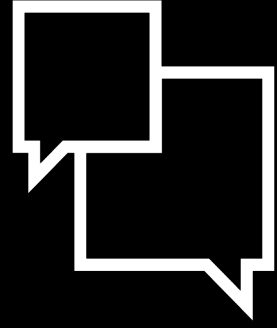
www.zebra.com/scannersoftware

2. Software Downloads

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

3. How-to-Videos

<https://www.youtube.com/playlist?list=PLrcZVTwQp0lesloWgP3gReI ZZqst5Hb-z>



Questions

Zebra DevCon 2023



Thank You

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