

# Zebra Evolution Update for Scanners

The following scanner updates have been released in the last quarter (October through December of 2022). [Subscribe to this notification.](#)

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## Firmware - What's New

For information on previous plugin / firmware releases see the release notes in [123Scan](#).

Supported Models	DS2208-SR DS2208-HC DS2208-SR00007ZZ-B DS2208-TT
Plug-in Names	DS2208-COMMON SR MODELS-S-017 DS2208-COMMON HC MODELS-S-008 DS2208-COMMON TT MODELS-S-012
Firmware	PAADES00-005-R00
Release Notes	***** * Firmware : CAADES00-005-R00 - September 2022 ***** - Fixed Command Key barcode from 123Scan - Fixed Portuguese keyboard character ']' - Added new RSM TGCS attributes - Added Big Gap Enable
Release Date	2022-10-11

Supported Models	DS2278-SR DS2278-HC
Plug-in Names	DS2278-STANDARD SR MODELS - No Cradle-S-018 DS2278-STANDARD HC MODELS - No Cradle-S-006
Firmware	PAADFS00-005-R00
Release Notes	***** * Firmware : CAADFS00-005-R00 - September 2022 ***** - Added very low and ultra-low radio power modes - Fixed Command Key barcode from 123Scan - Fixed Portuguese keyboard character ']' - Fixed composite barcodes in batch mode - Added new RSM TGCS attributes - Added Big Gap Enable
Release Date	2022-10-11

Supported Models	DS2278-SR DS2278-HC CR2278-PC
Plug-in Names	DS2278-STANDARD SR MODELS + CRADLE-S-036 DS2278-STANDARD HC MODELS + CRADLE-S-008
Firmware	PAADFS00-005-R00
Release Notes	***** * Firmware : SAADFS00-005-R00 * Scanner : CAADFS00-005-R00 - September 2022 * Cradle : CAADNS00-004-R00 - September 2022 ***** - Added Virtual Tether - Added very low and ultra-low radio power modes - Fixed Command Key barcode from 123Scan - Fixed Portuguese keyboard character ']'

	<ul style="list-style-type: none"> <li>- Fixed composite barcodes in batch mode</li> <li>- Added new RSM TGCS attributes</li> <li>- Added Big Gap Enable</li> </ul>
Release Date	2022-10-11

Supported Models	DS8108-SR DS8108-DL DS8108-HC
Plug-in Names	DS8108-STANDARD SR MODELS-S-031 DS8108-STANDARD DL MODELS-S-031 DS8108-STANDARD HC MODELS-S-031
Firmware	PAACZS00-008-R01
Release Notes	<p>*****</p> <p>* Release - CAACZS00-008-R01 - January 2023</p> <p>*****</p> <ul style="list-style-type: none"> <li>- Updated to ADF v2.0 with next level data formatting</li> <li>- Added ADF over SNAPi</li> <li>- Added ADF over SSI</li> <li>- Added parameter to disable Decode LED</li> <li>- Added Send All Fields options to Label Parsing / Parse+ for GS1</li> </ul>
Release Date	2023-01-12

Supported Models	DS8178-SR DS8178-DL DS8178-HC CR8178-PC CR8178-SC
Plug-in Names	DS8178-SR + TGCS CRADLE-S-008 DS8178-STANDARD SR MODELS + CRADLE-S-041 DS8178-DL + TGCS CRADLE-S-008 DS8178-STANDARD DL MODELS + CRADLE-S-041 DS8178-STANDARD HC MODELS + CRADLE-S-041
Firmware	PAACXS00-008-R01
Release Notes	<p>*****</p> <p>* Release - SAACXS00-008-R01 - January 2023</p> <p>* Scanner - CAACXS00-008-R01 - January 2023</p> <p>* Cradle - CAACYS00-007-R01 - January 2023</p> <p>*****</p> <ul style="list-style-type: none"> <li>- Updated to ADF v2.0 with next level data formatting</li> <li>- Added ADF over SNAPi</li> <li>- Added ADF over SSI</li> <li>- Added parameter to disable Decode LED</li> <li>- Added Send All Fields options to Label Parsing / Parse+ for GS1</li> </ul>
Release Date	2023-01-12

Supported Models	LI3678-SR
Plug-in Names	LI3678-STANDARD SR MODELS-No Cradle-S-006
Firmware	PAACMS00-005-R01
Release Notes	<p>*****</p> <p>* Release : CAACMS00-005-R01 - September 2023</p> <p>*****</p> <ol style="list-style-type: none"> <li>1. Virtual Tether feature with ultra low power</li> <li>2. Support for supply chain material changes</li> </ol>
Release Date	2022-10-27

Supported Models	LI3608-ER
Plug-in Names	LI3608-STANDARD ER MODELS-S-023

Firmware	PAADUS00-005-R02
Release Notes	***** * Release CAACUS00-005-R02 - October 2022 ***** - Changed default for Keyboard Wedge to IBM PC/AT & IBM PC Compatibles - USB extended asset feature - Datalogic variant support - Support for supply chain material changes
Release Date	2022-10-21

Supported Models	FLB3678-C1 LI3678-ER STB3678-C1
Plug-in Names	LI3678-STANDARD ER MODELS + CRADLE-S-026
Firmware	PAADVS00-005-R02
Release Notes	***** * Release : SAADVS00-005-R02 * Scanner : CAADVS00-005-R02 - October 2023 * Cradle : CAACNS00-005-R00 ***** 1. Virtual Tether feature with ultra low power 2. Support for supply chain material changes 3. Cradle auto-configuration
Release Date	2022-10-21

Supported Models	LI3678-ER
Plug-in Names	LI3678-STANDARD ER MODELS-No Cradle-S-005
Firmware	PAADVS00-005-R02
Release Notes	***** * Release : CAADVS00-005-R02 - October 2023 ***** 1. Virtual Tether feature with ultra low power 2. Support for supply chain material changes
Release Date	2022-10-27

## Software Tools - What's New

Download available at Zebra's [Scanner Software Support](#) site.

### 123Scan v6.00.0002 - 01/2023

1. Enhanced Advanced Data Formatting (ADF) capabilities,
  - a. Supported Scanners - Scanners supporting new ADF v2.0 enabled firmware can interact with 123Scan to perform next level data formatting. Our first scanner supporting ADF v2.0 is the DS8100 series. The DS8100 plugins will be made available through an automated (in utility) update. After download into your 123Scan, you must update your scanner to the latest firmware using the following plugins.
    - i. DS8108 - Plugin 31 or higher (Available in January of '23)
    - ii. DS8178 - Plugin 41 or higher (Available in January of '23)
  - b. Added to ADF Library with additional sample rules that exercise all the power of ADF v2.0.
    - i. Note the new ADF Library must be loaded manually (it is not loaded with the installation software or automated in utility update.). To update the library, following the instructions posted on <https://www.zebra.com/us/en/support-downloads/software/utilities/123scan-utility.html>
  - c. New user interface for ADF rule programming.
  - d. New user interface for ADF library.
  - e. Temporarily removed - ADF rule card re-order option.
    - i. Short Term Workaround - To re-order rules, the rules can be added to ADF library, then added back into the ADF programming screen at required position, one rule at a time.
  - f. Temporarily removed - "Trigger bar code" link in the ADF rule card.

- g. Temporarily Changed - "Rule Sets" are temporarily included in the filters, as part of the criteria section's Boolean logic. This will be fixed (to be made like previous version of 123Scan) with the "Rule Sets" being pulled out of the Boolean Logic in a upcoming release in Q1 '23.
- 2. Added support for new GS1 AIs (235, 395n, 417, 4310 - 4326, 7040, 8009, 8026). To access new AIs requires use of 123Scan v6 (or newer) AND updated scanner firmware. See release notes for support of new AIs.
- 3. Added "Send All Fields" options to "Label Parsing / Parse+" for GS1".
- 4. Added Staging Flash Driver support for NCR 7895 Bioptic scanner.
- 5. Bug fix - Fixed issue that prevented 123Scan from launching on Windows 10 PC if FIPS enabled - Fix = Disabled FIPS enterprise setting in 123Scan (not customer accessible) to allow the successful launch of 123Scan with FIPS enabled PCs. No user interaction required.
- 6. Bug fix - Fixed issue using GS1 Data Parsing AIs 7030 to 7039, formerly called 703s. Note - Older config files using 703s will have to be recreated with each AI from 7030 through 7039 called out individually. If an older config with 703s is opened, it will automatically be replaced with 7030.
- 7. Bug fix - DataView now supports scanners with no manufacture date available over a USB cable.

#### Barcode Scanner SDK for Windows v3.06.0024 - 01/2023

- 1. Enhanced OPOS Driver,
  - a. Added log file configurations via registry settings. Configuration now available on log level, log file length and maximum file count. This new functionality is applicable to both OPOS Scanner and OPOS Scale.
- 2. CoreScanner Driver for Windows,
  - a. Added device re-enumeration logic to make the CoreScanner more robust against USB failures occurring at device discovery and device initialization.
  - b. Bug fix - Improved methodology to detect if device is already available in the discovered scanners list. Now uses device path instead of device serial number.
- 3. IoT Connector for Windows,
  - a. Added VIQ (Visibility IQ) endpoint support.
  - b. Added 5 new events as JSON formatted log entries for DEVICE ATTACHED, DEVICE DETACHED, STATISTICS, BARCODE and BATTERY Events.
  - c. Added ability to remove displaying empty curly brackets ({} ) when no data is available for JSON formatted log messages.
  - d. Bug fix - Network location can be specified as log file path.
  - e. Bug fix - Fixed intermittent crash on IoT Connector when multiple devices are used, AND network connection is disconnected.

#### Barcode Scanner SDK for Android v2.6.13 - 01/2023

- 1. Added device filter capability using an API. The API removes all non-Zebra barcode scanners by filtering on friendly name.
- 2. Added auto-reconnect to last paired scanner upon application launch. This is achieved through an API which enables/disables auto reconnecting.
- 3. Added support for Android SDK API level 33.

#### Barcode Scanner SDK for iOS v1.4.36 - 01/2023

- 1. Added auto-reconnect to last paired scanner upon application launch. This is achieved through an API which enables/disables auto reconnecting.

#### Barcode Scanner SDK for Linux v4.4.1-31 - 01/2023

- 1. Enhanced IoT Connector - Added support for C98. Note C98 is a C++ compilation standard.
- 2. Added IoT connector support for following distributions.
  - a. RedHat 7.4 64bit
  - b. CentOS 7.9 64bit
  - c. Ubuntu 14.04 64bit
- 3. Added "Simulated HID Keyboard" support to CoreScanner.
- 4. Added "DDF" (Driver Data Formatting) support to CoreScanner.
  - a. DDF enables driver-based data formatting like adding an Enter or Tab key to be appended to scanned data before its transmission to a host.

- b. DDF (Driver Data Formatting) is different than ADF (Advanced Data Formatting). DDF is performed by Zebra's CoreScanner Driver versus ADF is performed within the scanner's firmware.
- c. DDF is supported over "Simulated HID Keyboard" using the following comm interfaces: SNAPI, IBM HandHeld, IBM TableTop.

#### Scanner Management Solution (SMS) for Linux v1.3.1-20 - 01/2023

1. Added security feature - Before loading an SMS package, an integrity check is performed on the package's contents.

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