



Release Notes

123Scan Scanner Configuration Utility v5.0 *November 2018*

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Overview

123Scan is an easy-to-use, PC-based software tool that enables the quick and easy set-up of Zebra scanners.

123Scan uses a wizard tool to guide users through a streamlined set up process. Once parameters are set, the values are saved to a configuration file that can be distributed via email, electronically downloaded via USB cable or used to generate a sheet of programming bar codes that can be scanned.

123Scan can generate multiple reports that can be easily rebranded using Microsoft Word and Access. Report options include parameters, asset tracking (inventory) information and a validation of scanned data.

Additionally, 123Scan can display scanned barcode data including non-printable characters. It can display, optimize and save pictures from an imager scanner. It can also upgrade scanner firmware, automatically check online to enable support for newly released products, generate a single 2D barcode for one scan programming and stage large numbers of scanners simultaneously via USB hub(s).

Functionality,



1. Optimized for first time users.
2. Generation of an electronic configuration file.
 - a. Supported programming modes from a configuration file include.
 - i. Electronic programming
 - ii. Barcode scanning
 - b. Maintain a library of configuration files by saving files to your PC.
3. Program Advanced Data Formatting (ADF) Rules.
4. Firmware upgrade of scanners via a standard USB cable.
5. Report generation capabilities.
 - a. Parameter Report: List of parameters programmed within a configuration file.
 - b. Activity Report: List of activities performed on a scanner(s) within a screen session.
 - c. Inventory Report: List of scanners configured and their asset tracking information.
 - d. Validation Report: Printout of scanned data can include non-printable characters.
 - e. Statistics Report: List of all statistics retrieved from scanner.
6. Rebranding Reports / Partner Customization.
 - a. Customize Programming Barcode Sheet after 123Scan outputs it to a Microsoft Word document.
 - b. Customize Reports after 123Scan outputs it to a Microsoft Word document.
7. Data Viewer
 - a. Display scanned barcode data from a USB cable including non-printable characters.
 - b. Display, optimize and save images from a USB connected imager scanner.
8. Discovered Scanner Tab.
 - a. Access to scanner asset tracking information.
 - b. Ability to program scanners simultaneously using powered USB hubs. If a 7-port hub, it must have at least a 3.5 Amp power supply. For fast staging use 123Scan's Mass Upgrade Mode available on the Discovered Scanners tab.
 - i. Loading a configuration : 10 Scanners
 - ii. Upgrading firmware : 10 Corded; or 3 to 5 Cordless; or 2 to 5 MP6X00; or 2 to 4 RFD8500
9. Statistics Viewer for scanners that support statistics such as the MP6000, DS3608, LI3678...

For more information on 123Scan, including how to videos go to <http://www.zebra.com/123Scan>.

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/utilities/123scan-utility.html>



Version History



Version 5.00.0008 – 11/2018

1. In ADF Rule creation - Added GridMatrix Symbology as available “code type” in criteria section for supported scanners.
2. Updated LS2208 config file generation process when “My scanner is not connected”. Now highlight the currently available model versus discontinued model.
3. Fixed CS4070 programming barcode printing – Now only prints 2D like Datamatrix.
4. Enhanced Statistics screen / “Decode Time and Count”– If scanner supports handsfree and handheld modes, now statistics report calls out scans separately for handheld and handsfree modes. If scanner supports RFID, it is also reported.
5. Minor Bug fix – When loading configuration after updating firmware on cordless scanner in the cradle - LED reflects configuration push completed properly.
6. Minor Bug fix – When updating one scanner’s firmware, rarely “Update Another” button being incorrectly shown on the firmware update dialog screen. Issue resolved.
7. Configuration file format change from UTF16 to UTF8 to support Chinese localization.
8. ADF and MDF action’s context menu update - Paste above and Paste below

Version 5.00.0003 – 09/2018

1. Fixed firmware update error by updated 123Scan’s CoreScanner Driver to a Microsoft signed USB “SNAPI Imaging driver”.
2. Added back option to send “ASCII Tab and Enter” into MDF actions options.
3. Increased reboot reconnect time from 5 minutes to 8 minutes when updating firmware available from Start and Discovered Scanners tabs.
4. Fixed “Erase All Rules” barcode which was missing in the programming barcode report.
5. Bug fix - Added back option to insert the < (less than), > (greater than) and ? (question mark) characters into ADF String/Trigger code field.
6. Bug fix - Fixed issue related to ADF configuration barcode failing to configure scanner when it been localized to Chinese Language.

Version 5.00.0001 – 08/2018

1. Added support (localization) for simplified Chinese language. 123Scan will automatically open in simplified Chinese, if this is your Window’s default OS locale. Note to manually change 123Scan’s localization, click Preferences / Language / Localization and select your desired language. After clicking Apply, restart 123Scan for the setting to take effect.
2. Name of utility changed from 123Scan2 to 123Scan.
3. Utility’s Windows desktop icon changed from  to 
4. Bug fix – Fixed 1D bar code printing issue for CS4070 specific parameters.



Version 4.05.0011 – 05/2018

1. Added support for cordless scanner firmware update over Bluetooth (no cradle involved) from Start screen / Update Scanner Firmware button.
2. Changed default operation mode of SMS Wizard to “Run as Application”.
3. Updated SMS Deployment Checklist to reflect new default operation mode of SMS Wizard (Run as Application) and Windows 10 support.
4. Added Digimarc GS1 Databar “decode count” to Statistics View.
5. Changed order of scanners displayed on Config Wizard’s “Select your scanner family from the options below” screen.

Version 4.05.0007 – 02/2018

1. Enabled updating firmware from a custom firmware to a new custom firmware.

Version 4.05.0006 – 11/2017

1. Fixed Mass Upgrade Mode to avoid re-updating a scanner that has already been updated successfully, within the same Mass Upgrade session. Applies to all scanners, but fixes an issue with DS8178, DS2278, DS3678.
2. Fixed incorrect display of non-printable characters appearing in slowest decode data in Statistics View.
3. Add support for the extended ASCII Characters in ADF, ADF now supports any ASCII character up to 256.
4. Fix for handling incorrectly formatted synapse buffers in the plug-ins.

Version 4.05.0002 – 10/2017

1. Added Scan Speed Analysis (SSA) to statistic view.
2. “USB communication protocol may have changed” dialog no longer used (when cloning a scanner’s configuration) for select scanners running new firmware.
3. Added support to configure up to four cable settings (communication protocols) in a configuration file.
4. Fixed issue – Now can enable/Disable MDF Groups via programming barcodes.

Version 4.04.0008 – 06/2017

1. Added a search box to the configuration wizard.
2. Enhanced bar code data processing in fast HID KB mode.
3. Decreased application launch time and decreased installation package size.
4. Simplified Mass Upgrade mode, available on the Discovered Scanners Tab.
5. Added additional “Time between MDF Codes” options to the Multicode Data Formatting screen.

Version 4.03.0002 – 12/2016

1. Bug fix - Fixed inconsistency in setting reset to defaults in cordless scanners.
2. Bug fix - Resolved programming barcode issue when bar code report is printed for configurations with large ADF buffer.
3. Bug fix - Resolved RS6000 support issue introduced in 123Scan v4.2.1.0.
4. Removed Quick Startup Instructions and updated 123Scan Overview.



Version 4.03.0000 – 11/2016

1. Bug fix - Fixed language specific formatting dependency that occurs when “.” is replaced by “,” in automatic updates process.

Version 4.02.0001 – 09/2016

1. Added support for DS3678 Bluetooth Scanner and cradle into a single plug-in.

Version 4.01.0006 – 06/2016

1. Added Battery Statistics support for scanners supporting Battery Statistics.
2. Added support for MDF (Multicode Data Formatting).
3. Updated ADF screen layout to match new MDF layout.

Version 4.00.0003 – 05/2016

1. Redirected plug-in download process to Zebra site.
2. Removed “Set to Custom Defaults” option from the Printing Options.

Version 4.00.0002 – 03/2016

1. Rebranded to Zebra Technologies.
2. Added Windows 10 Support.

Version 3.07.0002 – 10/2015

1. Added RFD8500 support.
2. Lower max number of simultaneously programmable scanners from 14 to 10 scanners.

Version 3.06.0002 – 05/2015

1. Added support for two new Symbologies: GS1-DataMatrix and GS1-QR Code to ADF/Data View and Statistics.
2. Added support for new MP6000 firmware update – This version of 123Scan must be used with all MP6000/6200 firmware released after June 1, 2015.
3. Added support enabling ADF (Advanced Data Formatting) on OCR (Optical Character Recognition).
4. Added support to copy bar code data from the Data View’s scan log into the Windows Clipboard using a right mouse click.
5. Bug fix – “RS-232 host mode change” programming 2D bar code now printed as two 2D bar codes.
6. Bug fix – Up Carrot (^ indicates change from factory default) in Config Wizard properly displayed.
7. Bug fix – Corrected bar code printed for “IBM Specification level” parameter.

Version 3.05.0002 – 01/2015

1. Optimized the Check for Update process.
2. Added send programming barcode to phone option.
3. Added a report that outputs the updates history.
4. Added support for ADF Rule Sets.



5. Added new ADF commonly used actions group.
6. Added ability to prevent parameter barcodes scanning via a SMS packages.

Version 3.04.0001 – 10/2014

1. Security enhancements to address potential security vulnerability.
2. DS9208 scanner firmware download fix.

Version 3.02.0008 – 03/2014

1. Removed LS2208 (Symbol logo) scanner from the SMS package wizard's available/supported scanners.

Version 3.02.0006 – 02/2014

1. Updated DL parsing screen to support multiple date formats and gender format per field.
2. Added support to select similar scanners with a single click in Discovered scanner list.
3. Added feature to save Staging flash driver files as packages to PC and track in recent files list.
4. Color coded plug-in selection across the application (Normal plug-ins black, Custom plug-ins green, Beta plug-ins red).
5. Dialog displayed when an RS232 host variant is switched. Dialog indicates a number of other parameters are also switched and how to determine which parameters were changed.
6. Cordless bug fixes
 - a. Hot Swap mode now supports cordless scanners.
 - b. Now maintain pairing between scanner and cradle during set to defaults, both electronically and via barcodes.
 - c. Added support for configuring the scanner/cradles as units when loading and retrieving setting.
7. Include Set Factory defaults and Set Defaults in Print dialog and configuration options.
8. Windows 8 support.

Version 3.01.0001 – 10/2013

1. Added ability to display scale weight for the MP6000 within the data view.
2. Added independent display of "Set to Default" parameter based on cordless or corded scanner.
3. Optimized text in numerous dialogs and menus.

Version 3.00.0010 – 07/2013

1. Added statistics (decode times, barcodes scan count ...) displayed in the Statistics View for select scanner such as the MP6000.
2. Added ability to program DL Parsing rule using the Configuration Wizard.
3. Added MP6000 support. Use USB cable CBA-U51-S16ZAR and plug into the MP6000's "POS PORT".
4. Added support for generating a MP6000 Staging Flash Drive.



5. Added LI2208 support.
6. Optimized text in numerous dialogs and menus.
7. Added Barcode menu for access to key bar codes.
8. Updated firmware naming convention
 - a. Old format : CAABQS00-001-R01
 - b. New format : Release XXX – YYYY.MM.DD (Engineering Name)
 - c. New format : Release 010 - 2013.06.21 (CAABQS00-001-R01)
9. Release notes now also on firmware upgrade screen.

Version 2.02.0011 – 11/2012

1. Added ability to include DL Parsing parameters within the 2D programming barcode printout.
2. Fixed Check for Update process. Windows 7 64 bit operating systems now supported.
3. Within the Configuration Wizard, individual parameters changes tracked. Values changed from default setting now indicated with a “^”.

Version 2.02.0006 – 07/2012

1. Added ability to generate an SMS Package for use with the Scanner Management Service.
2. Removed requirement for exact match between scanner and plug-in firmware when generating a configuration file. Now if your scanner has a newer version of firmware than present within a plug-in within 123Scan, you can create a configuration file.
3. Simultaneous firmware upgrade for multiple cordless scanners*.
4. Maximum number of simultaneous firmware upgrades typically varies between 3 to 7 cordless scanners in their cradle, depending on PC hardware capabilities.
5. Note – clicking the “Blink scanner LED’s” or “Refresh” button during a cordless scanner firmware upgrade may halt the firmware upgrade process.
6. Operating System support for Windows 7 64bit.

Version 2.01.0002 – 12/2011

1. UI update on data formatting Prefix/Suffix Screen, added < >.
2. Updated Set Defaults Barcode Options report, added “Set Factory Defaults” and “Write to Custom Defaults” barcodes.
3. Updated the print programming barcodes reports: Replace the “Set Defaults” parameter with “Set Factory Defaults” for RSM 2 scanner printouts. For RSM 1 and legacy scanner printouts, the Set Default parameter is still utilized.
4. Added two new RFID code types for RFID based ADF rules.

Version 2.01.0001 – 10/2011

1. How to Videos link added to start tab and help menu.
2. Optimized check for updates screen layout.
3. Added support for additional ALT key sequences within the Data Formatting screen.
4. Full name of firmware displayed on the Discovered Scanners tab.



Version 2.01.0000 – 05/2011

1. Cordless scanner plug-in selection process optimized.

Version 2.00.0005 – 02/2011

1. Generate a list of supported scanners models including plug-in name and model of firmware. See Help menu.
2. Scan Log screen displays scanned data, including hidden characters. See DataView tab.
3. Image Log screen captures and displays pictures on imaging enabled scanners via a USB connection.
4. Optimized to support EMEA / APAC sized paper. To permanently set, see Preferences tab.
5. Firmware upgrade optimized for SNAPi enabled scanners. Total upgrade time is less than 2 minutes.
6. A uniform naming convention applied to reports and printouts.
 - a. Configuration file: Config File_Model_Config name_Date Stamp.scncfg
 - b. Parameter Report: Parameter Settings_Model_Config name.rtf
 - c. Programming Barcodes: Programming Barcode_Model_Config name.rtf
 - d. Activity Report: Activity Report_Date stamp_Time stamp.csv
 - e. Inventory Report: Inventory Report_Date stamp_Time stamp.csv
 - f. Scanner Output Report: Validation Report_Model_Config name_Date stamp_Time stamp.rtf
 - g. Images: Image_Date stamp_Time stamp.bmp

Version 1.01.0011 – 12/2009

1. Initial release of 123Scan Scanner Configuration Utility.

Components

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

Component	Location
Application	Program Files\Zebra Technologies\Barcode Scanners\123Scan2
Configuration Files	Windows XP: All Users\Shared Documents\123Scan2\Configuration Files Windows 7 / 8.1: Users\Public\Documents\123Scan2\Configuration Files
Activity Reports	Windows XP: All Users\Shared Documents \123Scan2\Activity Report Database Windows 7 / 8.1: Users\Public\Documents\123Scan2\Activity Report Database
Data View Reports	Windows XP: All Users\Documents\123Scan2\Data View Reports Windows 7 / 8.1: Users\Public\Documents\123Scan2\Data View Reports



Saved Images	Windows XP: All Users\Shared Documents \123Scan2\Images Windows 7 / 8.1: Users\Public\Documents\123Scan2\Images
Scanner Plug-Ins	Windows XP: All Users\Application Data\123Scan2\Plug-ins Windows 7 / 8.1: ProgramData\123Scan2\Plug-ins
SMS Packages	Windows XP: All Users\Documents\123Scan2\SMS Packages Windows 7 / 8.1: Users\Public\Documents\123Scan2\SMS Packages
Statistics Files	Windows XP: All Users\Documents\123Scan2\Statistics Files Windows 7 / 8.1: Users\Public\Documents\123Scan2\Statistics Files
Staging Flash Drive Packages	Windows XP: All Users\Documents\123Scan2\Staging Flash Drive Files Windows 7 / 8.1: Users\Public\Documents\123Scan2\Staging Flash Drive Files
ADF Trigger Barcodes	Windows XP: All Users\Documents\123Scan2\Barcode Printouts and Parameter Reports Windows 7 / 8.1: Users\Public\Documents\123Scan2\Barcode Printouts and Parameter Reports

Installation – Requirements

Hardware Requirements

- Pentium Dual-Core E214 1.6GHz or Pentium Mobile Dual-Core T2060 or Pentium Celeron E1200 1.6GHz.
- 2GB RAM 1.2 GB free hard drive space.
- USB port, 1.1 or higher, for the connection of USB Scanners.
- Minimum display resolution = 1024 by 768 pixels.

Software and Supported Operating Systems

- Supported Operating Systems
 - Windows XP SP3 32bit
 - Windows 7 32bit 64bit
 - Windows 8.1 32bit 64bit
 - Windows 10 32bit 64bit
- If not present, Microsoft .NET Framework 4.0 client profile will be loaded at time of initial 123Scan installation.

123Scan can be launched from the Windows XP / 7 Start button.

Start / All Programs / Zebra Scanner / 123Scan



123Scan can be launched using Windows 8+ from Start Screen

Start Screen / Apps / Zebra Scanner / 123Scan

In order for 123Scan to download utility and plug-in updates the following requirements must be met:

1. Have connectivity to Internet (direct or via proxy).
2. Allow HTTPS data (Port 443 should be open if a firewall is present).
3. The proxy setting should be set in the System Proxy not on Individual applications (Ex. Firefox Proxy will not work). [<http://windows.microsoft.com/en-US/windows7/Change-proxy-server-settings-in-Internet-Explorer>].
 - a. This can be confirmed by browsing to https://www.zebra.com/content/dam/zebra_new_ia/en-us/solutions-verticals/product/Software/scanner-software/123scan/fact-sheets/data-capture-dna-123scan-fact-sheet-en-a4.pdf from Internet Explorer. It should download the ZEBRA SCANNER 123SCAN SPEC SHEET. If not, there is some proxy setting issue.
4. Application needs at least 1Mb of free space in C: drive or the System drive.