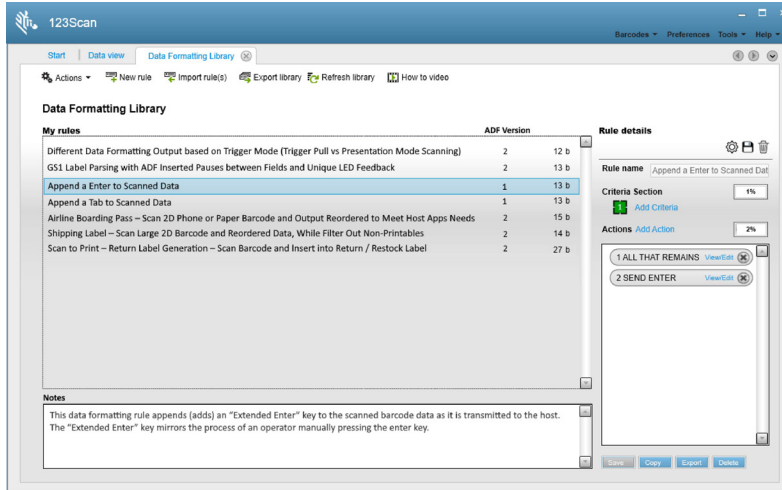ZEBRA
**CAPTURE YOUR EDGE**



# Advanced Data Formatting (ADF)

## Automate workflow decisions for frontline workers to improve productivity and data accuracy

What if your barcode scanners were intelligent enough to instantly alert workers when the wrong barcode is scanned? What if workers could automatically apply different formatting rules based on whether the barcode was scanned in handheld or hands-free mode? What if you could seamlessly move a scanner from one workflow to another, without any reprogramming? And what if your scanners could adapt to a wide variety of scenarios on the fly, replacing error-prone user decisions with automation that ensures data capture accuracy? All of this is possible, and much more, with Zebra's Advanced Data Formatting (ADF).

You've come to rely on the business-essential capabilities of Zebra's Advanced Data Formatting to edit data before transmitting it to a host application. Now this proven functionality has moved into the realm of automation, delivering the flexibility to run an enterprise more efficiently using Zebra Scanners. For example, you can customize scanner feedback based on the barcode that is scanned — and even provide error feedback whenever barcode data isn't sent to the host. And new comprehensive and intuitive filters make it easy to collect only the data you need. With ADF, you have the power to optimize more business workflows, solve new business problems and improve the integrity of the data that drives your business.

Part of Zebra's 123Scan Configuration Wizard, ADF is loaded with time-saving programming features, making it easier than ever to create the exact rules your workflows require. The result? You get more value from your device investment and can do more with your Zebra scanners faster than you ever thought possible.

### Benefits

Automatically format data to meet your application needs before sending to the host

With the industry's best programming interface, creating a data formatting rule has never been easier

Increase workflow automation and reduce the number of decisions workers need to make

Now one scanner can be programmed to achieve what, in the past, took multiple use-specific scanners

Improve your data integrity by validating data at the point of collection

**Put the power of DataCapture DNA's Advanced Data Formatting in the hands of your workers today.
To find out how, please visit www.zebra.com/adf**

## Industry-first control over user feedback

### Customize feedback based on barcode symbology
You can configure different types of user feedback — beeper, LED and vibration — depending on the specifics of the barcode scanned. For example, activate the beeper, LED and pager motor one way for UPC codes and another way for Code 128. Or define distinct beeper sequences for different symbology types.

### No more false feedback at the point of collection
Today, when barcode data isn't successfully transmitted to the host, do your workers know? With Zebra's ADF, they will. Only ADF gives you the option to suppress a good decode beep if data is not sent to the host.

## Flexibility to run your enterprise more efficiently

### Target only the data you want
Intuitive filters and industry-first capabilities make it easy to weed out unnecessary information, while automating the collection of the data you need. Filtering capabilities include: host communication protocols, barcode symbologies, barcode length, trigger mode, string matching and more. You can specify any character set that must be present in the data — including numeric, alpha, non-printable characters and whitespace. Plus, you can use advanced Boolean logic (And, Or, Not) to set the relationships between your filtering criteria.

### Solve workflow needs based on how your scanner is used
With a first-of-its-kind feature, you can program a scanner to behave differently, depending on its use case, host communication protocol (for example, USB HID vs OPOS), how the scanner is triggered (presentation mode vs trigger press) and other advanced filter criteria. The result? You can easily move a scanner from the backroom to the point of sale, from the pharmacy to the lab, without having to change a single setting. That means the same scanner can be used for multiple workflows — resulting in the need for fewer scanner configurations.

### Track where your data is coming from
Now you can add scanner asset information to scanned data, including model and serial number. If you have multiple cordless scanners connected to the same communication cradle, you'll know which scanner sent the data.

### Built-in flexibility to handle all your 2D barcode needs
Paving the way to support new barcode standards, ADF provides the flexibility to format even the most complicated 2D barcodes including those with up to 4,096 characters. Now you can insert up to 128 characters per action into the scanned data, enabling the printing of complex labels.

Plus, additional formatting functionality is useful with large barcodes, including the ability to send data from position 'X' to 'Y', insert user defined strings, replace non-printable characters with an ASCII value and move to a specific position from the start or end of the barcode.

### Handle complex programming scenarios with rule recovery options
What should a scanner do if an action fails? With ADF, you can predefine the next steps — for example, move on to the next rule, ignore the failed action, or try to apply as much as possible of the failed action. This Zebra-only feature brings more process automation to the edge, taking decision-making out of the hands of your workers to increase data accuracy, workflow efficiency and worker productivity.

## Data formatting made simple

### Groundbreaking simplicity using 123Scan interface
Creating an advanced data formatting rule has never been so easy. Within 123Scan, the ADF interface presents all possible choices through a well-designed menu system, allowing administrators to simply click their way through rule creation. And changes are easy — just drag actions to rearrange as needed.

### Get up and running quickly with a library of pre-written rules
Feel like an expert on day one with the ADF library within 123Scan. Pre-populated rules help you solve common business challenges, ranging from as simple as "append an enter key" to more complex actions, such as using different trigger modes to output different data — and everything in between.

### Find answers to your questions at the click of a button
Tired of getting stuck when you're trying to learn something new? The ADF wizard offers industry-leading built-in help, so you can instantly get answers and understand your options without digging through user guides or contacting support.

## Enhanced interoperability with Zebra's ecosystem

### Easy integration between Zebra scanners and printers
Enabling your Zebra scanner to transmit a label to your Zebra printer has never been easier — just a few easy steps! And you can leverage the pre-written Scan to Print rule in the ADF library to get started quickly.

### Backwards compatible with existing ADF versions
Your legacy data formatting rules will work seamlessly with ADF — no rework required.

**ZEBRA**

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| **NA and Corporate Headquarters** | **Asia-Pacific Headquarters** | **EMEA Headquarters** | **Latin America Headquarters** |
| +1 800 423 0442 | +65 6858 0722 | zebra.com/locations | zebra.com/locations |
| inquiry4@zebra.com | contact.apac@zebra.com | contact.emea@zebra.com | la.contactme@zebra.com |