



The DATA CAPTURE Report

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Special **SCAN: The DATA CAPTURE Report** Reprint

ID Integration Launches Revolutionary New Software

BarCode^{os} could turn the tide on IUID adoption and accelerate adoption of advanced scanning for other industry applications

We are seeing new products and services hitting the market on a never-ending basis, but the release of **ID Integration's (IDI)** new **BarCode^{os}** software suite has the ability to monumentally change IUID adoption and has applicability to accelerate other similar industry applications. As many **SCAN/DCR** readers know, it has been difficult to get things moving with the U.S. Government's **DoD's** IUID program because of old and disparate software systems within the military. ID Integration President Gary Moe believes his team has solved the problem.

"**BarCode^{os}** was developed out of needs identified by our product development team and our customers," Moe told us. "One of the biggest challenges in meeting IUID requirements is trying to work with outdated/dispate software systems. As much as 95% of the government's software systems do not have what is needed to facilitate IUID marking/reading of the 'social security number' [unique item identifier] required by the mandate. These UIIs can be up to 50 characters. We call them

social security numbers because they serve the same purpose as UIIs, only the first is for people and the second is for items/parts.

"UIIs enable the military to monitor inventories, lifecycles for parts, and service records," he continued. "Most of these functions are still being done today with keystroking.

With DPM (direct part marking) and the proper tools and software to read the marks, we can eliminate most keystroking, gather more data, and do it all more efficiently with less cost."



Gary Moe,
president/founder,
ID Integration.

BarCode^{os} background

Taking advantage of more powerful processors, available storage memory, and JavaScript software tools **BarCode^{os}** gives the bar code reader the power and flexibility of a programmable data terminal eliminating or reducing the need for expensive and complex middleware and even mobile computers and PC's for certain applications. IDI developed **BarCode^{os}** functionality over a period of five years in response to feedback from UID customers who wanted greater productivity and ease of use when scanning, validating and moving data from the barcode to the information system registry.

These customers wanted to be able to filter and parse data in different output formats without requiring complex and expensive middleware. They also wanted a plug and play scanner that was easy to configure and set up without the use of software drivers. **BarCode^{os}** came about from IDI taking our knowledge and real world experience of what makes a best of breed scanning solution and turning it into a product that can add value and productivity to many business processes that require scanning.

What is BarCode^{os}

BarCode^{os} software suite is a modular set of applications that greatly enhance the usefulness of barcode readers. A convenient means provides users to switch operating modes by scanning configuration bar codes via a web browser eliminating the need for programming.

The **BarCode^{os}** solution suite actually begins with providing users the industry's easiest to use set-up configuration tool. In place of having to reference, thick manuals to configure a scanner or use proprietary software that only works with a vendor's specific scanner, **BarCode^{os}** provides licensed customers access via a web portal to configure the reader.

A web page with a simple tab based user interface displays the current scanner settings. The user makes selections using a web form which produces real time configuration bar codes that the user can scan directly from the PC monitor, notebook computer screen, or even a tablet or smartphone.

BarCode^{os} enables a scanner with true plug and play capability. No additional software drivers are needed as existing, native Windows, Linux and Mac drivers are used for USB keyboard emulation.

Because of **BarCode^{os}** the power up boot process is controlled forcing the scanner into a functional USB Keyboard wedge mode eliminating the cause for the most common bar code reader support calls. It also ensures a secure and locked reader configuration that keeps the scanner settings from being inadvertently or purposefully changed thus further reducing support calls.

A big advantage of **BarCode^{os}** is its ability to serve as a FIREWALL to block embedded, malicious operating system commands possible in **Data Matrix**, **QR** or **PDF417** barcodes. There are a growing number of incidences being reported around the world particularly with **QR Codes** about this issue and to IDI's knowledge **BarCode^{os}** is the only released scanning solution that addresses this problem.

More background

Moe told **SCAN/DCR**, "Military personnel were asking for something simple and easy. They wanted a scanning system that would quickly allow them to parse out specific information. These people have been overwhelmed with

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BarCode^{OS}. They're very happy with the results of our labor.

"In one of the old **Army** systems, a typical form would require filling out three screens of information," he continued. "If you make a mistake on the third page, it immediately shifted you back to page-one and you had to start all over again. When you are typing 15-20 characters or more, it is pretty easy to make a mistake. **BarCode^{OS}** allows them to parse and filter information. It is actually quite novel. It turns a low-cost scanner into an intelligent scanner. In many cases, **BarCode^{OS}** also can eliminate or minimize the need for specialized middleware. Parsing and filtering is done in the scanner. To make things even easier, users can program tabs on the web portal."

Available Software Modules

ID Integration Inc. is making available three versions of BarCodeOS: Basic, Enhanced and Industry Specific.

- Basic includes access to the Web Configuration Portal, Secure-Boot and Secure Configuration functionality, and Firewall functionality. The ability to configure the scanner to filter according to Prefix, Suffix and Find/Replace strings of characters gives additional flexibility to addressing business requirements. Basic also includes SmartFoto which provides automated nameplate image capture and file naming for uploading to an image library for immediate viewing with the known filename link.

- Enhanced additionally includes smart filtering, lookup and parsing functionality. Smart Filter extends the basic character filtering of **BarCode^{OS}** Basic to include advanced data scenario analysis. Smart Lookup provides on board database lookup from a scanned value to output associated data. Smart Parse splits any multi-field bar code into individual parts data parts with user defined output (e.g. ID Cards, Driver's License, Age Verification, Shipping Label, etc.) and user control is easy via the web browser configuration utility.

- Industry Specific is a **BarCode^{OS}** developed for selected industry applications that benefit from smart scanning. The first offering is Smart-UID (DoD/**NATO**) with Smart-UDI (**FDA**) for medical instrument tracking and other industry applications available later in the year. Smart-UID provides out of the box data validation with audible discrimination between a valid and non-valid UID mark.

"The secure configuration feature is not only helpful, it saves money," said Moe. "In some cases, scanners can be programmed to return to factory defaults. Once you have put in the secure configuration, all you have to do is unplug and plug back in the USB cable to reboot to return to the configuration you are using. Our entire goal through all of this was to create simple plug-and-play functionality. **BarCode^{OS}** works right out of the box.

Branching out

Although **BarCode^{OS}** was designed for military and aerospace applications, Moe said he believes the offering will enable his company to branch out into other vertical markets. He is currently establishing a reseller network to take the package to sectors such as healthcare, automotive, electronics, logistics and transportation, and possibly even retail.

"**BarCode^{OS}** offers us lots of big opportunities," Moe told *SCAN/DCR*. "The basic offering could definitely be used outside our core customer base. We offer the ability to tie a photo to secure data and then turn it all into a jpeg."

Last words

Today, the **BarCode^{OS}** offering supports selected scanners from **Code Corporation** and **Microscan**. Plans are underway to support additional vendor's hardware later in 2015.

"We chose Code Corporation because of their leadership role in manufacturing bar code scanner hardware with advanced on-board processing capability," said Moe. "Code is very big in the medical sector. The Code product roadmap includes the high performance processors, memory configurations and JavaScript capabilities that optimize **BarCode^{OS}** functionality to best meet customer advanced scanning requirements. All in all, we are expecting the rollout of **BarCode^{OS}** to be a huge success and an exciting new business opportunity for not only ID Integration but our reseller partners. Our five years of labor are really paying off."

BarCode^{OS} is a trademark of ID Integration Inc.

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