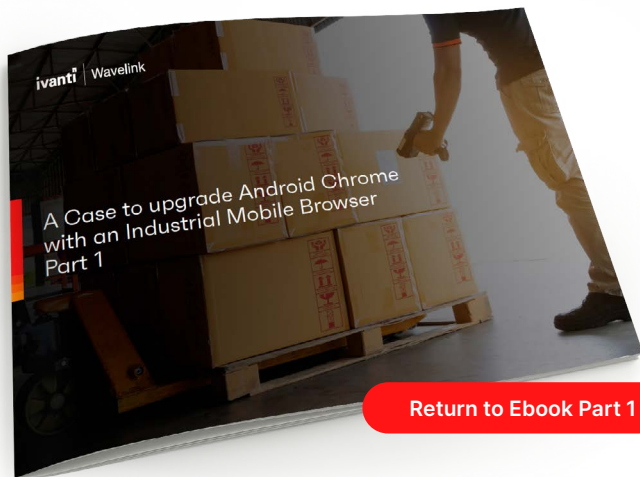# ivanti | Wavelink

A Case to upgrade Android Chrome with an Industrial Mobile Browser Part 2

Consumer browsers at first glance appear to be a simple solution for delivering mobile user Interfaces. However, when you evaluate their capabilities against a purpose-built Industrial Browser like Ivanti Velocity, it becomes clear that Velocity is designed to incorporate the unique needs of mobile Supply Chain workers.

In addition to the benefits of supporting a broad range of ruggedized mobile computers and smart phones (over 30 manufactures & 150 form factors plus), Velocity also supports Speakeasy and Neurons for IIoT. It allows for detailed control over unique hardware features such as barcode scanners, imagers, and cameras, and offers the ability to customize keyboards and workflows at the device level. The remainder of this eBook focuses on the unique features of Ivanti Wavelink's Velocity, Speakeasy and Neurons for IIoT with an emphasis on how their expanded feature set improves real world mobile worker performance with fewer errors.

A Case to upgrade Android Chrome with an Industrial Mobile Browser Part 1

Return to Ebook Part 1

Modernization

Display product image

Mobile printer connect

Smart tags

Automate processes

Voice activation

Heads-up display connect

Display putaway location

Pick and put to light

External display

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Velocity - Industrial Browser

Preserve Existing Enterprise Systems:

Velocity interfaces with your existing host and web-based applications. Add mobility without making changes to your WMS, ERP, or other enterprise applications, extending the life and value of those powerful business systems.

Deploy Across Devices and OS's

With Velocity, your apps can be deployed across different devices, optimizing to fit different device screens and keyboard configurations. Running Windows 10 on a forklift mounted tablet? No problem! The same applications will run across Android, Windows 10 and IOS devices.

Run Multiple Sessions

You can run multiple sessions in Velocity with a single tap. Workers multitask, and so can your mobile App. You can even multitask between TE and Web sessions.

Kiosk mode

Unlike consumers, mobile workers require dedicated tools to perform their jobs. Unfiltered access to internet sites, games and other distractions reduces productivity and increases error rates. For this reason, Velocity supports a locked down mode known as Kiosk. When Velocity is launched in Kiosk mode, the mobile application consumes the entire display window and prevents the user from entering alternate URL's or access restricted device level applications such as games and settings.

Menu Bar control

Hide the Menu and Address bars to access more application display area.

Task Bar control

Hide or add other highly used applications to be accessible from the task bar.

Custom keyboards

Consumer browsers offer very little when it comes to keyboard data entry. With Velocity you can design your own keyboard layouts fit specifically for mobile workers. These keyboards can also be unique for each page if desired. Need larger keys for gloved workers? Does your application require unique function keys or do some fields require a small set of alternatives? No matter your keyboard needs, Velocity makes it possible.

Workflow Modifications

Let's face it, your enterprise applications are the heart of your organization and more often than not making even minor changes to these systems is risky and time consuming. However, improving productivity and reducing supply chain errors is an ongoing march. With Velocity, mobile device level changes can be made to any workflow without enterprise application modifications enabling operations to quickly improve workflows with little to no risk.

Barcode reader control

Velocity has supported barcode readers from the very first release. Whether your mobile device has an integrated scanner, imager or camera, Velocity allows you to exercise these devices at the I hardware level. Improve barcode performance and reduce errors by turning on only the required symbology at the prompt level. With Velocity you can require UPC barcodes be scanned for item numbers and Code I 2of 5 for locations reducing miss reads while preventing worker delays from scanning the wrong barcode.

Data Parsing

Do your part numbers include additional information than just your part number? Do you use lot or serial numbers? More often than we realize, the barcodes we utilize often contain more information than we need. Velocity resolves this common problem by allowing you to parse or format scan and keyboard entered data prior to submitting it to the server eliminating the need to make host application changes or build custom mobile applications.
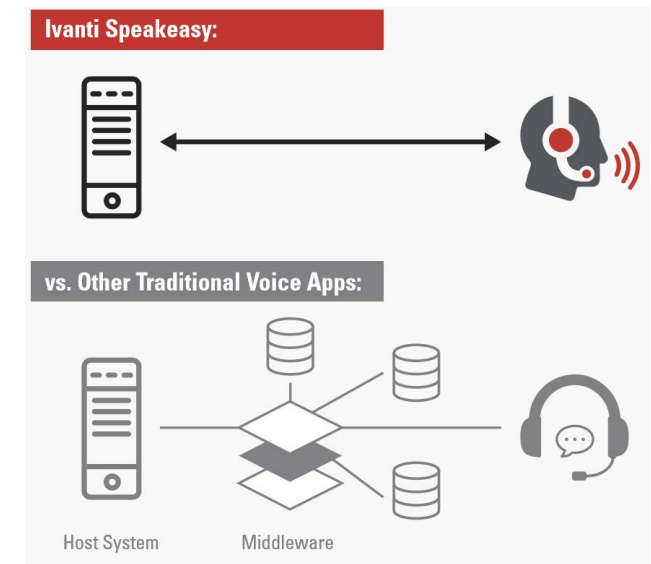
Speakeasy - Voice Enablement

While barcode scanning is one of the most prevalent methods for data collection within the Supply Chain, other forms of data entry have proven to work extremely well in specific environments and workflows. Voice recognition technology enables mobile workers to Speak into the mobile device and software on the device translates the spoken word or command and completes the transaction. Voice has proven to be very effective in picking applications that benefit from workers requiring both hands to perform their job. In the picking application, the user is often instructed to go to a specific location via a spoken command from the mobile computer and pick a specific number of items. Rather than scanning the items with a mobile

device and hand entering a quantity on a keyboard, the operator uses a "Ring Scanner" to scan the barcode and then speaks the picked quantity. The mobile device records the scan and voice input and moves on to the function without the user needing to touch the mobile computer. This "hands free" solution removes the need to handle a mobile device and simultaneously pick products. Voice has also been very effective in cold storage environments where users need to wear gloves.

Early versions of voice technology where complicated and expensive to install requiring additional processing power (either network appliances, servers, or wearable micro-computers) to perform the translation process. With Ivanti Speakeasy, we took a different approach and leverage the processing capabilities of the Android mobile computer to perform the translation from voice to text and text to voice. This software only approach has several advantages including lower procurement and ongoing support costs, faster implementation time and the ability to work across a broad range of mobile devices. As with Velocity, Speakeasy is designed to add voice to any WMS or ERP solution without any server application code modifications! This means that any enterprise application leveraging a Telnet or Web interface can be voice enable. Speakeasy also supports mobile thick clients through the available set of API's.
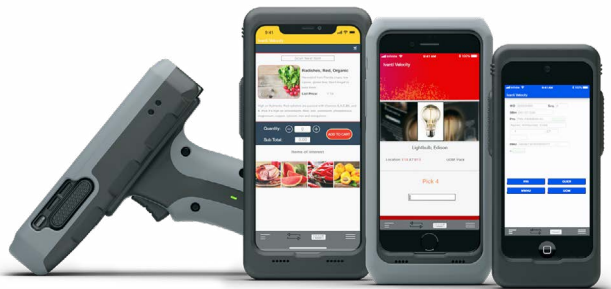
Speakeasy features include:

- Speech-to-text / Text-to-Speech
- Over 50 languages supported
- No middle ware or additional infrastructure required
- Multi-modal (voice, scanning, RF-ID, keyboard, etc.)
- Cost effective – software only solution
- Short implementation times
- Cost effective

Ivanti Neurons for IIoT

Purpose-built from the ground up — and with supply chain environments in mind — Neurons for IIoT is a unique application-enablement platform that helps supply chain businesses automate and optimize operational efficiency. Businesses can collect and analyze high-volume, high-speed operational data and derive actionable, real-time insights to boost operational efficiency, productivity, and quality — and drive industrial organizations towards true operational excellence. The Neurons for IIoT platform integrates rapidly with Ivanti Velocity using its built-in MQTT client and can be used to add IIoT automation around your existing task-worker processes without having to invest in expensive WMS changes.

Transform Supply Chain Operations through Low-risk Automation

At its core, Neurons for IIoT connects machines, devices, workers, and systems, maximizing uptime, deepening insights, and improving visibility. Dynamic workflows leverage five key platform capabilities:

- **Connect:** Smoothly integrate data from any connected device and operational technology applications, Ivanti Velocity, and more to ensure a single-source repository for diverse business insights.
- **Create:** With a low-code/no-code workflow builder, the Ivanti IIoT platform integrates pre-built applications easily so users can implement rapid solutions.
- **Analyze:** Sync with the Ivanti Neurons engine for powerful predictive-analysis capabilities, including identifying potential failures and processes for improvement.

Summary

As WMS providers continue to offer new features and capabilities to support the ever changing and challenging requirements of Supply Chain companies, the mobile workflows they deliver are becoming front and center during the decision-making process as committee purchasing groups include mobile user input on a more frequent basis. Incorporating the needs of the mobile user is of utmost importance.

While consumer browsers provide the basic capabilities of displaying and collecting information, they are not adequate to support the unique requirements found in the Supply Chain. Investing in an Industrial browser such as Ivanti Velocity provides a dynamitic platform to leverage the best hardware and software supply chain solutions.

To learn more about Ivanti Wavelink's supply chain products please visit www.ivanti.com/wavelink

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Request a demo today   Click Here

About the Author

Greg Henry has spent the last 30 years within the mobile computing and supply chain industry. He is a well-rounded mobility expert holding positions in solution engineering, product development, sales and executive leadership. He has had the privilege of working for industry leading device and application manufacturers and solution providers throughout his career. In his current role at Ivanti Wavelink, Greg focuses on educating WMS and supply chain partners to help expand their mobile offerings and leverage new technologies to make supplies more productive, while while reducing errors.