

The ASUG logo is located in the top left corner of the slide, featuring the letters 'ASUG' in a bold, orange, sans-serif font. It is positioned within a white triangular graphic that points towards the top right.The background image shows a warehouse worker wearing a high-visibility yellow safety vest over a dark blue shirt. The worker is holding a handheld barcode scanner in their right hand and is reaching towards a Zebra printer on a counter. The printer is printing a shipping label with a barcode and the text 'FRIGHTY EXPEDIT'. The worker's left hand is near the scanner. The background is a blurred warehouse setting with shelves of boxes.

Dallas Fort Worth Chapter Meeting Spring 2023

Barcode Automation for Inventory Control with SAP – IM & WM

Brief educational session on SAP Mobile (RF) Scanning & Barcode Printing

Customer Example – SAP WM & RF Implementation for Pregis Packaging

Applicable for SAP ECC 6.0, Suite on HANA, and S/4HANA environments.

April 28th, 2023



About the Presenting Companies



For over 20 years, BCC Distribution has been the premier provider of complete data collection solutions that integrate barcode scanning and barcode printing automation into SAP ERP business systems. BCCD offers clients best-of-breed mobile terminals, scanners, printers and wireless infrastructures along with the 'state of the art' software and technical services to deliver best practice solutions. By bringing all of our strengths to the table – hardware distributor, software developer and systems integrator, BCCD is able to deliver optimized barcode and RFID solutions that meet the unique requirements for inventory control and tracking in manufacturing, warehousing and/or distribution business operations.

Delivering and supporting ALL aspects of a turn-key IM/WM/EWM barcoding solution for SAP ECC & S/4HANA.

- **SOFTWARE** | Solutions & Development
- **EQUIPMENT** | Distributor & Integrator
- **SERVICES** | Software & Equipment
- **SUPPORT** | All System Deliverables



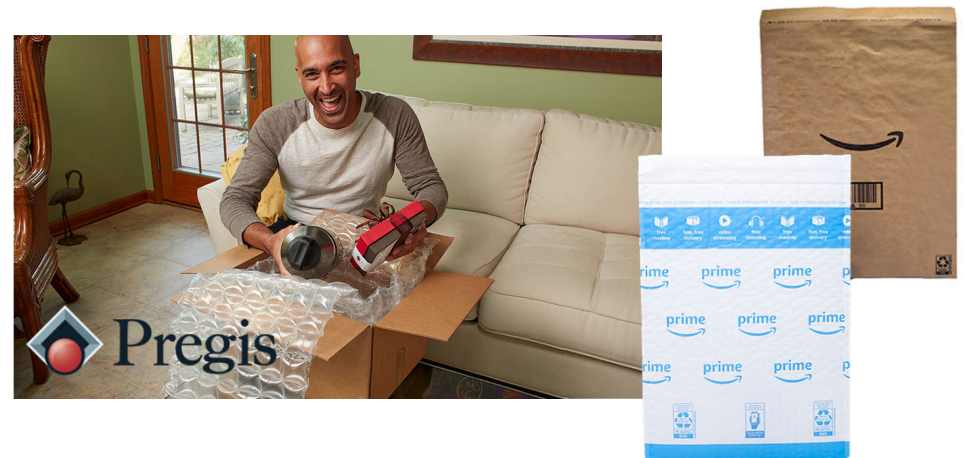
SAP® Certified
Powered by SAP NetWeaver®



BarTender®
BY SEAGULL SCIENTIFIC
Certified Enterprise Partner

Pregis is Not Just in the Packaging Business – We're in the "Wow" Business

Pregis is a leading manufacturer and provider of innovative packaging and protective products.



Pregis solves the toughest business challenges with packaging.

BCCD Video Illustration



Click the Zebra SAP Barcode Scanner to Launch Video



Barcode Automation

RF Barcode Scanning & Barcode Printing

1D/Linear Barcode Examples

Code 128	GTIN	UCC/GS1
ITF-14	UPC	EAN
		

2D Barcode Examples

QR Code	Data Matrix	PDF417
		
MaxiCode	Grid Matrix	iQR Code

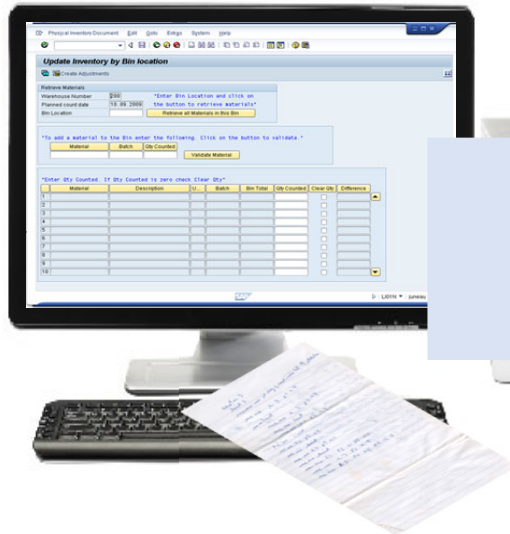


TranASAP™

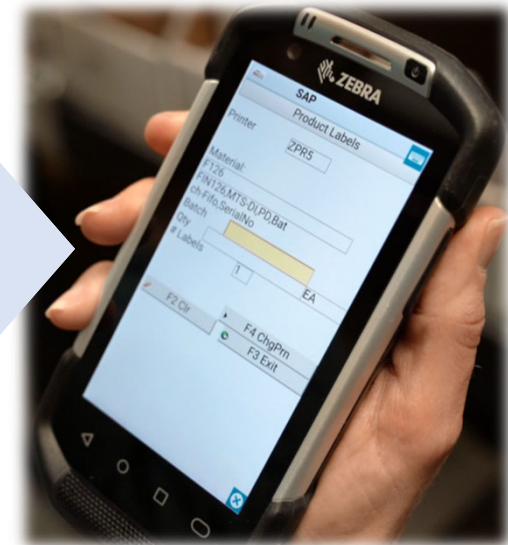
by BCC Distribution, Inc.

Mobile [RF] Software Transactions for SAP® ERP Business Systems

- **Native** SAP design, **real-time** and direct SAP integration, using **SAP's recommended ITSmobile connectivity**.
- Designed for **ease-of-use** in the Warehouse and on the Shop Floor.
- Automated to optimize error proofing, **process efficiency** and inventory accuracy.
- Library of **300+ existing software transactions** built on inventory and warehouse management standards.



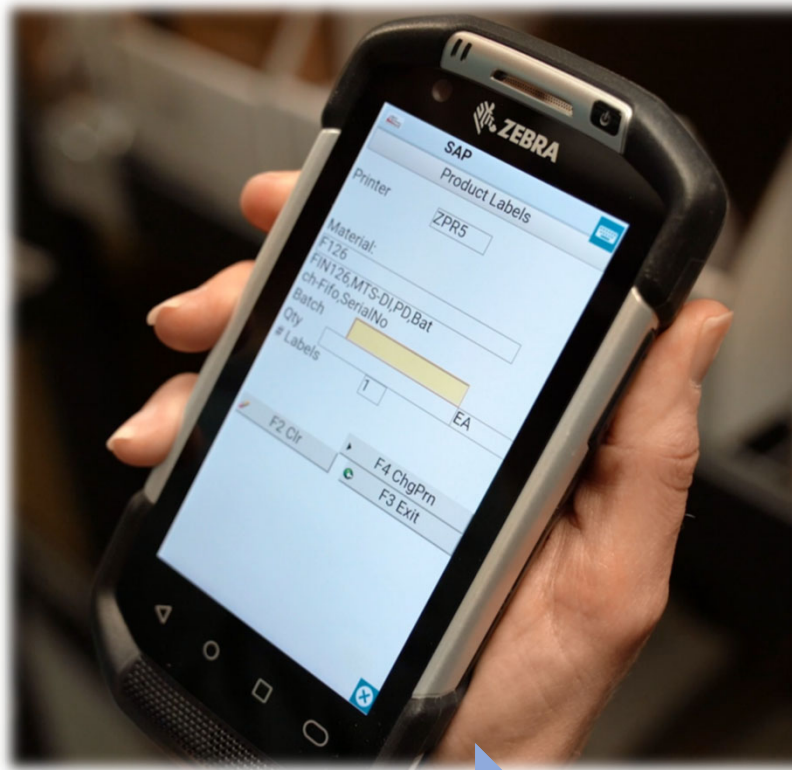
- ✓ Less Words
- ✓ Fewer Screens
- ✓ No Pen & Paper



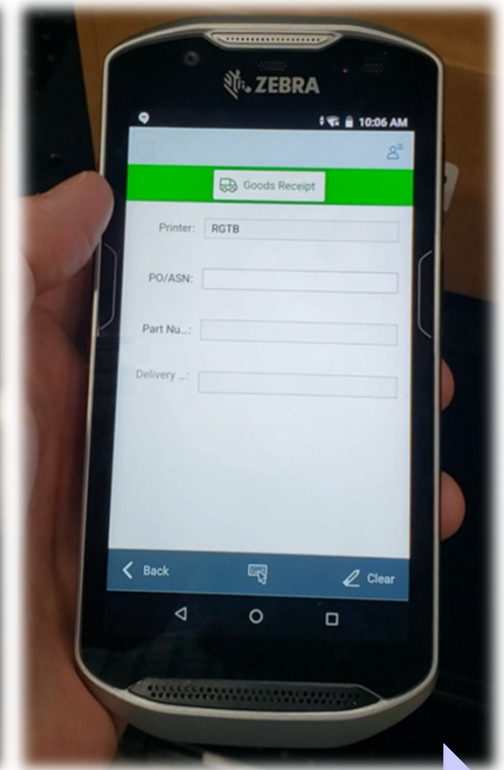
Native SAP RF Barcode Scanning & Mobility



SAP Console
(Telnet Server/Device Client)



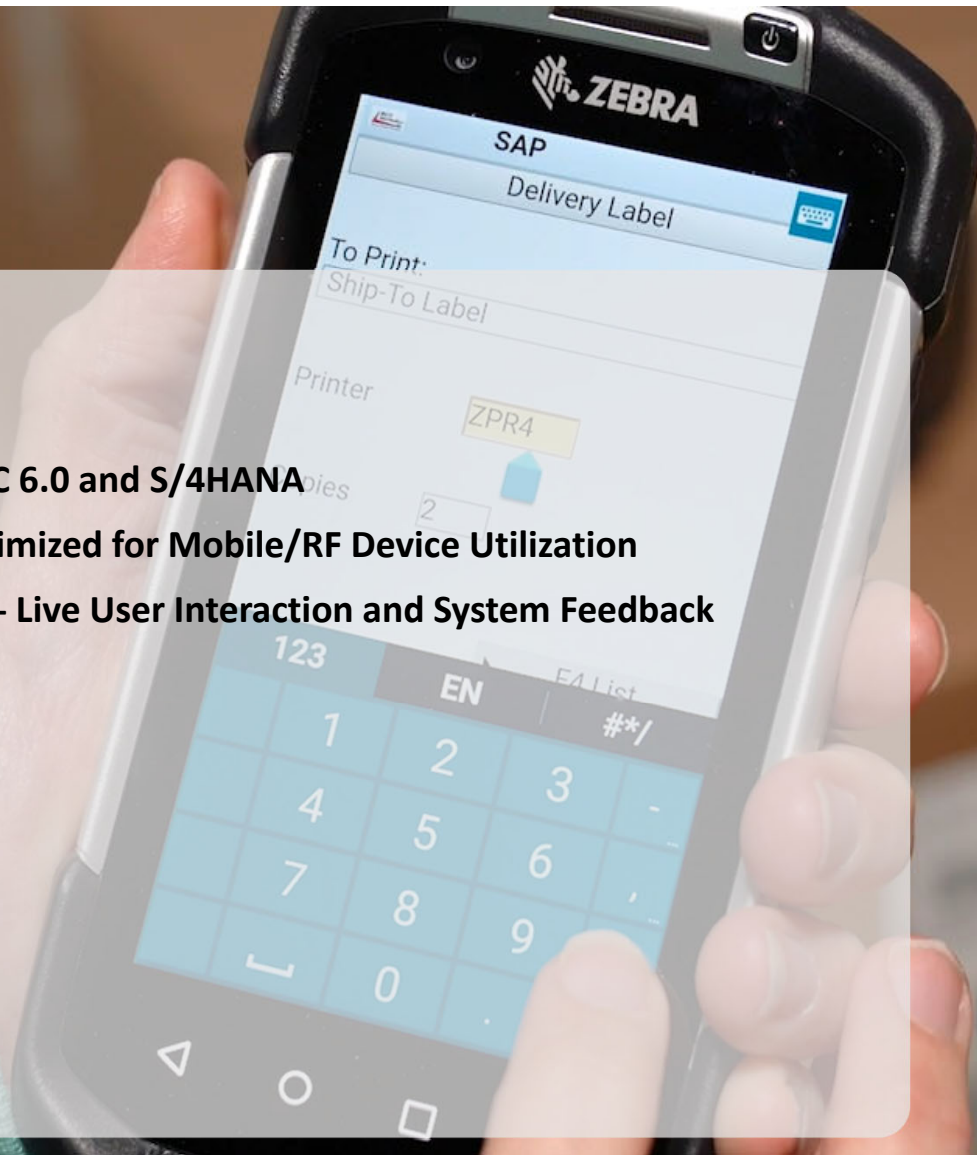
ITSmobile
(Industrial Web Browser)



**UI5 [Neptune-Fiori Design]
Store & Forward (Online/Offline)**

SAP's ITSmobile

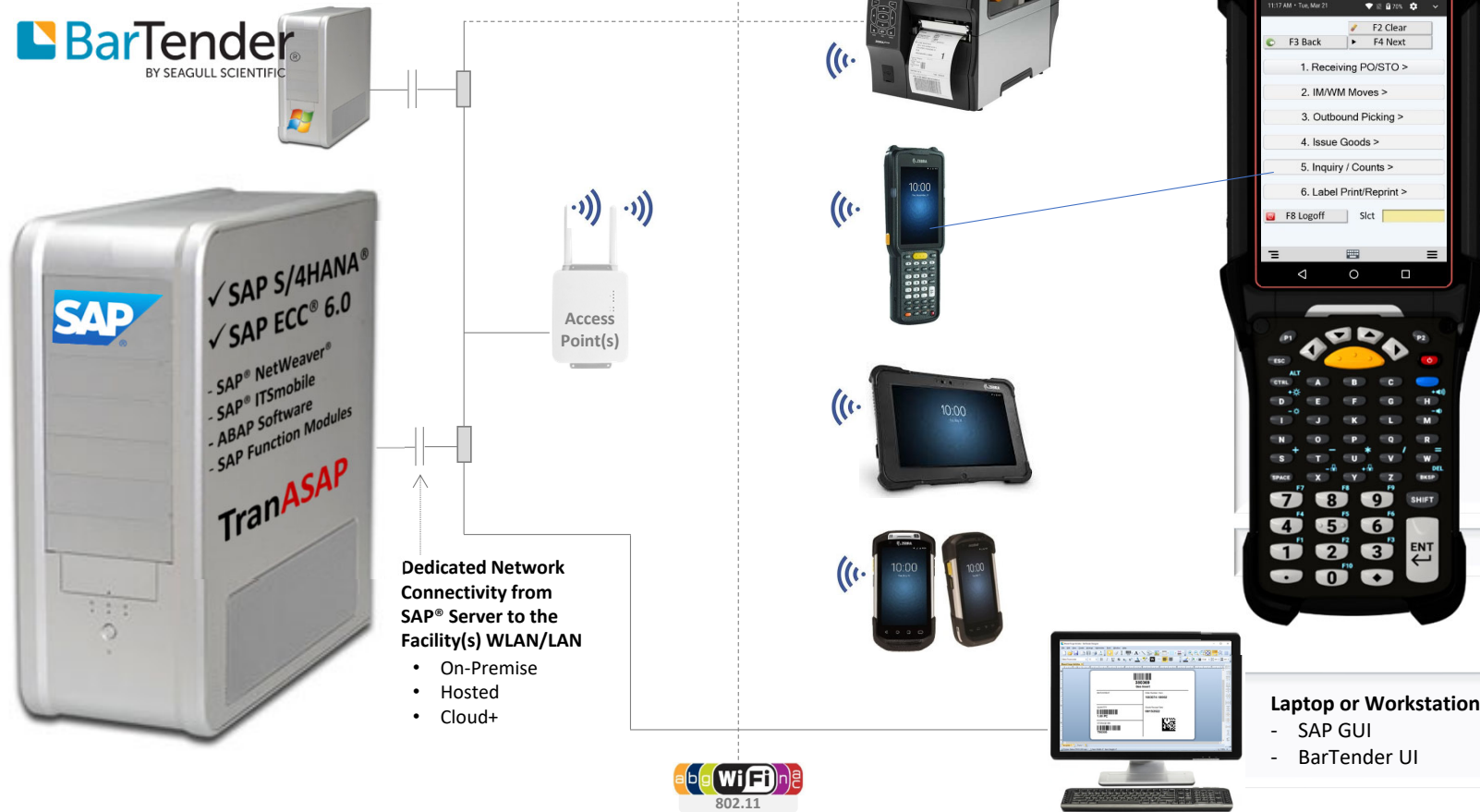
- Direct, Real-Time SAP Connectivity
- **SAP's Recommended RF Framework**
- Native SAP (ABAP) – Designed for SAP ECC 6.0 and S/4HANA
- Actual SAP Transactions and Screens, Optimized for Mobile/RF Device Utilization
- Immediate Data Validation w/ Each Field - Live User Interaction and System Feedback
- Stateful SAP Connection
- Standard Locking of Objects
- Industrial Web Browser, per Device
- HTML SAP Screens
- Touch Screen & Physical Key Use
- Support for Windows & Android OS
- Supports RFID & Voice Enabling



SAP® ITSmobile Infrastructure – Connectivity

(SAP's Recommended RF Framework for ECC & S/4HANA)

BarTender
BY SEAGULL SCIENTIFIC



SAP ITSmobile Certified RF Terminals

Certified Operating System

- Android Ent. (Mx)
- Windows®10*
- Windows® Mobile
- Windows® CE

Certified Industrial Web Browser

- Zebra EB
- Velocity
- Naurtech

Staged & Configured for Direct, Real-Time Connectivity to SAP

- OS/Firmware Version
- Utilities & GMS Disable
- I.P. Settings
- SSID
- Sys. Access/Passcode

SAP® Login Credentials

Laptop or Workstation PC

- SAP GUI
- BarTender UI

Best Practice SAP-Integrated Printing

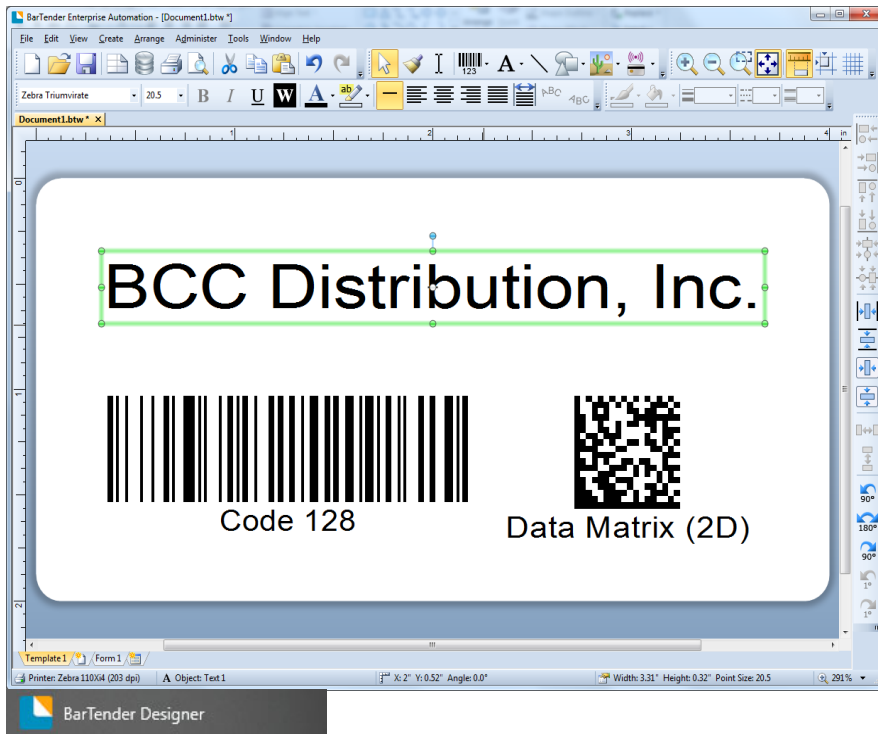
- BCCD Designed Simplified Enterprise Printing System
- Print to nearly any printer, directly from SAP®
- Extensive Barcode Printing Capabilities (1D & 2D)
- Supports SAP-Automated Printing
- Supports Stand-Alone Printing (Custom/Manual and Web-Based)
- WYSIWYG Designer Enables (authorized) Users to Easily Modify Templates
- Add Printers and Change Printers, Quickly & Easily
- Existing Templates Simplify Design & Implementation of Compliance Labeling
- Scalable to Grow w/ Printing Requirements – Unlimited Networked Users
- Centralized and Standardized for Uncomplicated System Maintenance & Support



WYSIWYG & Embedded Code Comparison

WYSIWYG

Easily Design, Modify, Deploy & Print



Printer Code Templates (SAPscript ITF)

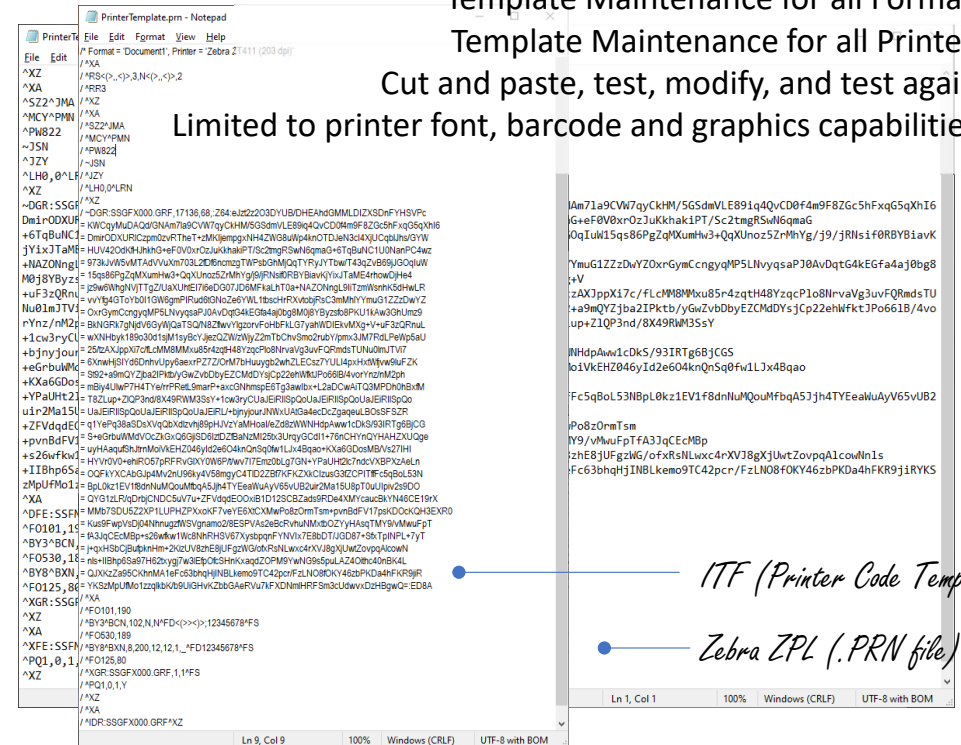
Programmatic Code Changes

Template Maintenance for all Formats

Template Maintenance for all Printers

Cut and paste, test, modify, and test again.

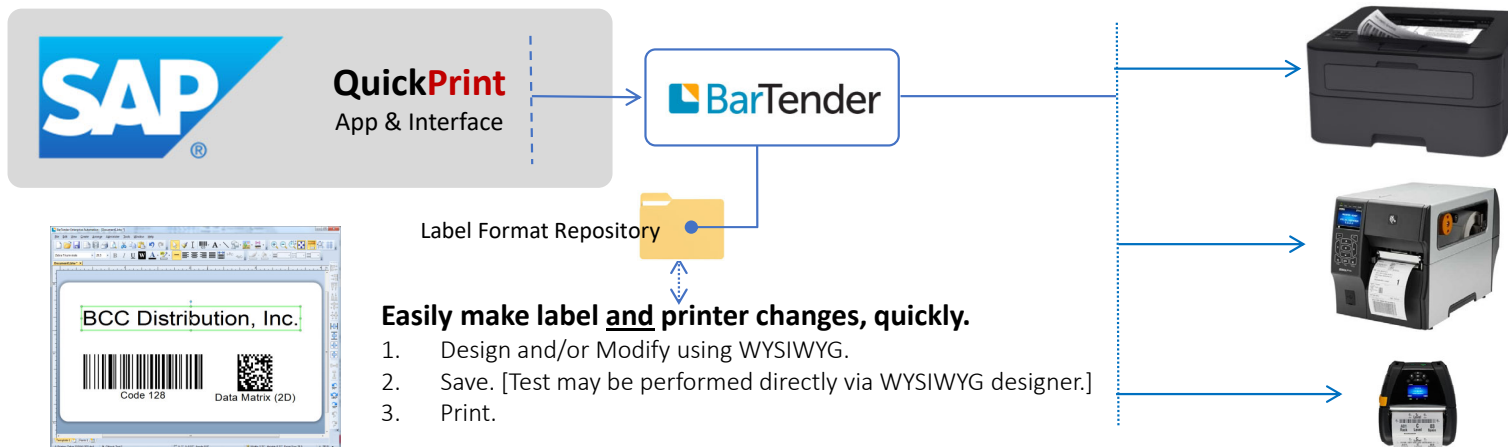
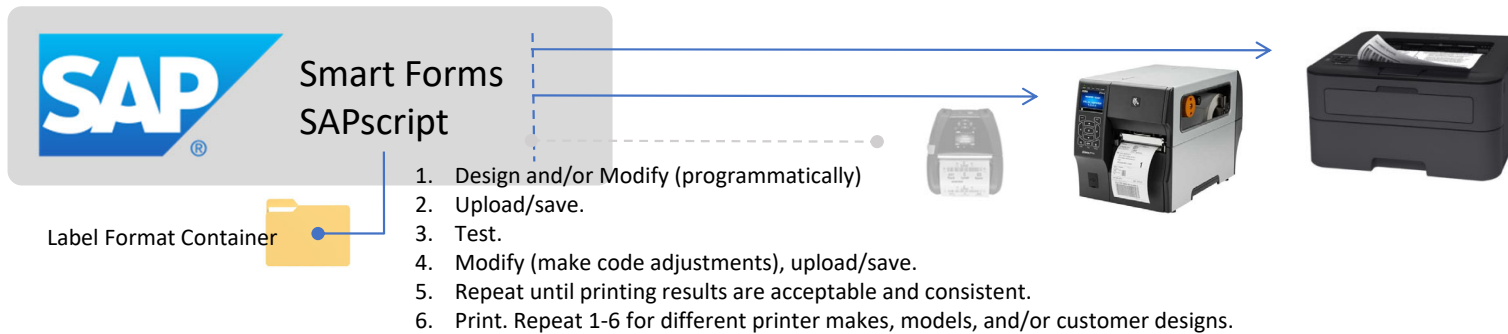
Limited to printer font, barcode and graphics capabilities.



ITF (Printer Code Template)

Zebra ZPL (.PRN file)

SAP-Integrated Printing Comparison

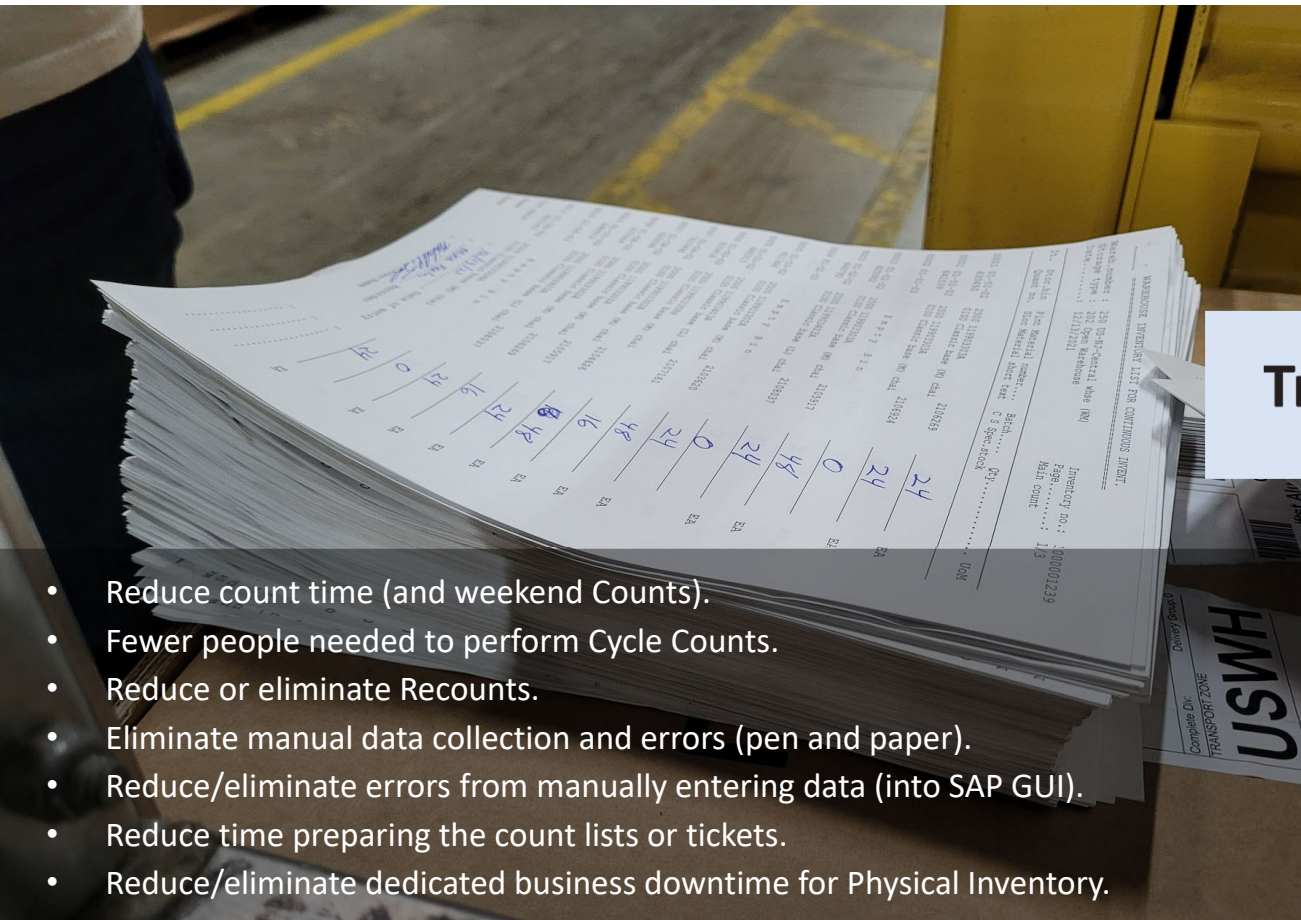


Business Case/ROI – SAP Mobility & Barcoding

Inventory Counts – Manual vs Real-Time Mobility



Easy to Use
Real-Time Entry & Validation



- Reduce count time (and weekend Counts).
- Fewer people needed to perform Cycle Counts.
- Reduce or eliminate Recounts.
- Eliminate manual data collection and errors (pen and paper).
- Reduce/eliminate errors from manually entering data (into SAP GUI).
- Reduce time preparing the count lists or tickets.
- Reduce/eliminate dedicated business downtime for Physical Inventory.



Examples of SAP ITSmobile RF Transactions for SAP Inventory & Warehouse Management (IM/WM)



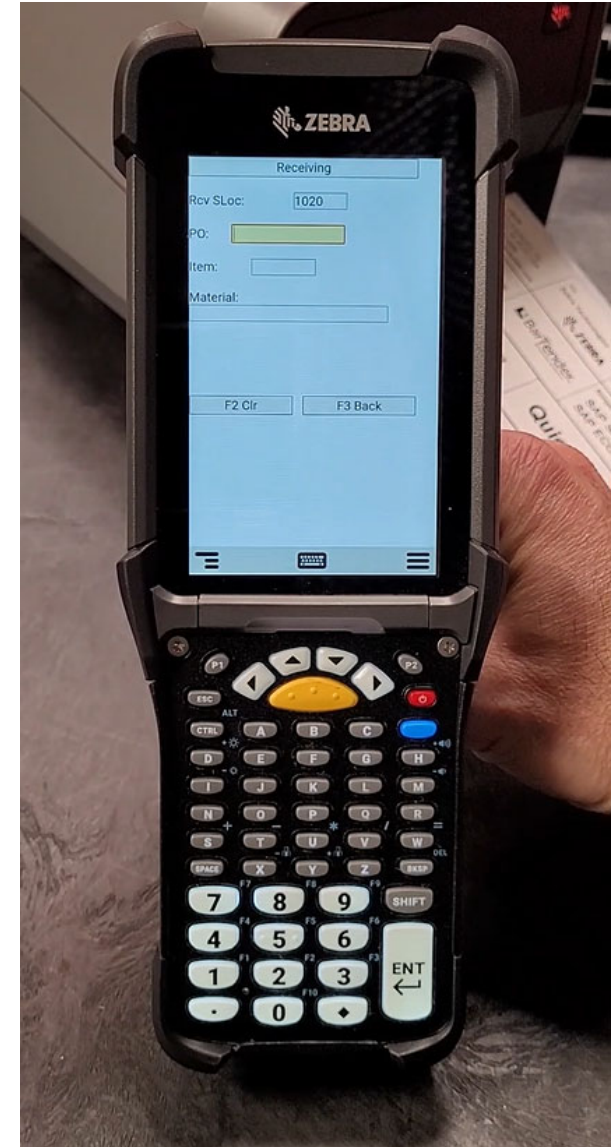
WM Count Demo (Lift/Pallet)



SAP RF Transaction Demo



IM & WM RF Transactions



SAP Mobility & Barcoding – Key Considerations

Data Collection Terminals Handheld, Vehicle, Stationary

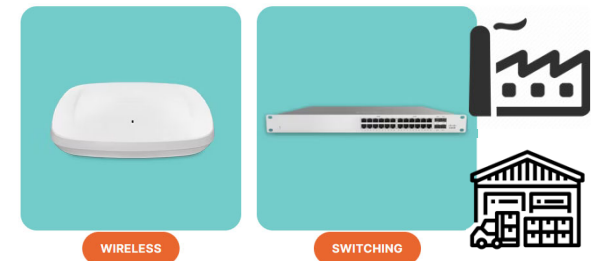


Enterprise Printing Equipment Mobile, Thermal, Laser, Automation



Wi-Fi & Connectivity

802.11 WLAN and/or Outside 4 Walls (offline)



Location & Product Identification Materials and Warehouse/Bin Locations



SAP (and Physical) Environment Version, Modules, Upgrades, Migrations



RF Barcoding System Software SAP Integration of System Components



+Services – Design, Configure, Implement, Test & Train, Support

Lessons Learned



Organization

- Racking, Lanes, Dedicated Space
- Flow/Direction (FIFO Strategy)
- Bin ID (Sync SAP + Physical Bins)
- Material ID



Lessons Learned

Barcoding Solution Best Practices – A Standardized Global Template vs Custom Replication of Legacy System or building on “Standard SAP”

- Standard SAP limitations, requires heavy customization, issues with Change Management.
- Operational flexibility to adopt potential business process changes (for the better).
- Enabling rapid deployment for additional site implementations.
- Corporate desire to minimize added costs for additional site deployments.
- Important considerations for long-term maintenance (native or not, follow SAP upgrades, etc.)
- Ease of use for adoption (confidence, obvious value to the user, reliability, and speed).
- A good project team (internal and/or external) is essential to implementation success.

Questions

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See more on YouTube

@BCCDistribution

