ZEBRA CAPTURE YOUR EDGE

Zebra Warehousing Solutions

Ease Your Modernization Journey
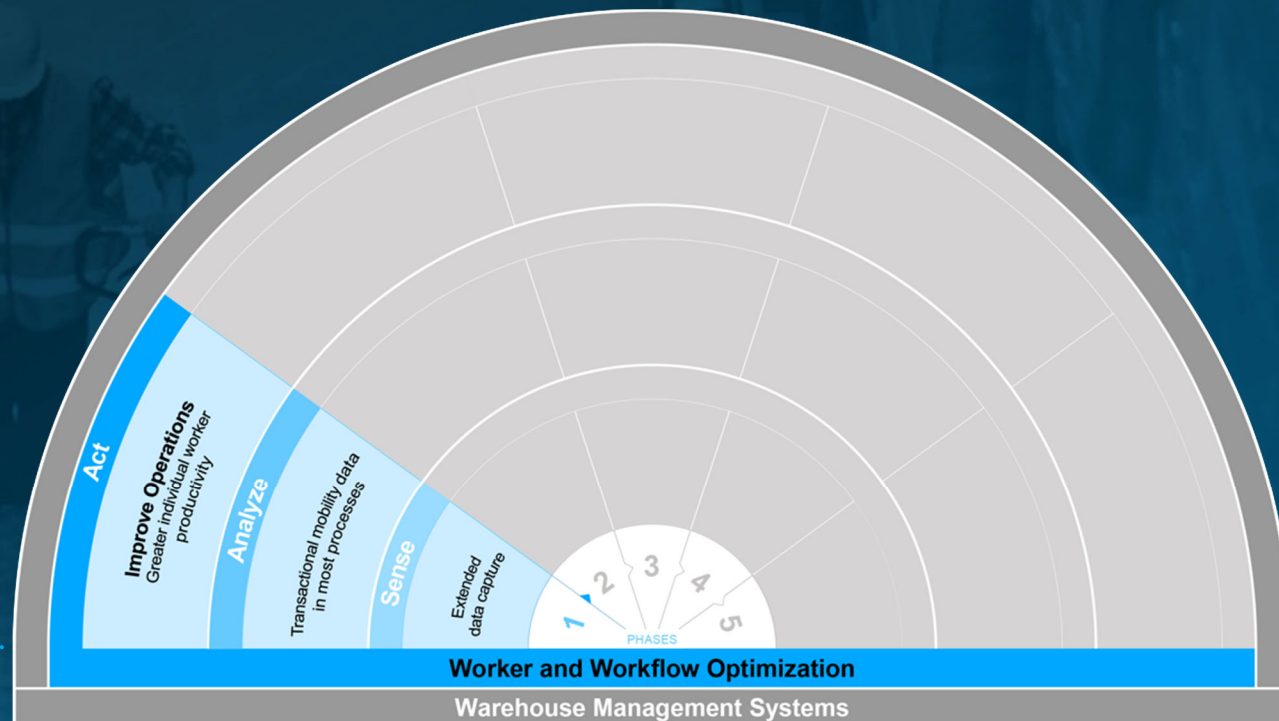## Across every operational area

Presenter Name
Date

Accelerate Workflows with the Zebra Warehouse Maturity Model
A strategic framework for modernizing

Phase 0
Basic data capture

Siloed and Reactionary
Meeting static performance goals

Improve Operations
Greater individual worker productivity

Act

Analyze
Transactional mobility data in most processes

Sense
Extended data capture

PHASES

Worker and Workflow Optimization

Warehouse Management Systems

Phase 1
Gain basic control
of business operations

Phase 2
Optimize the
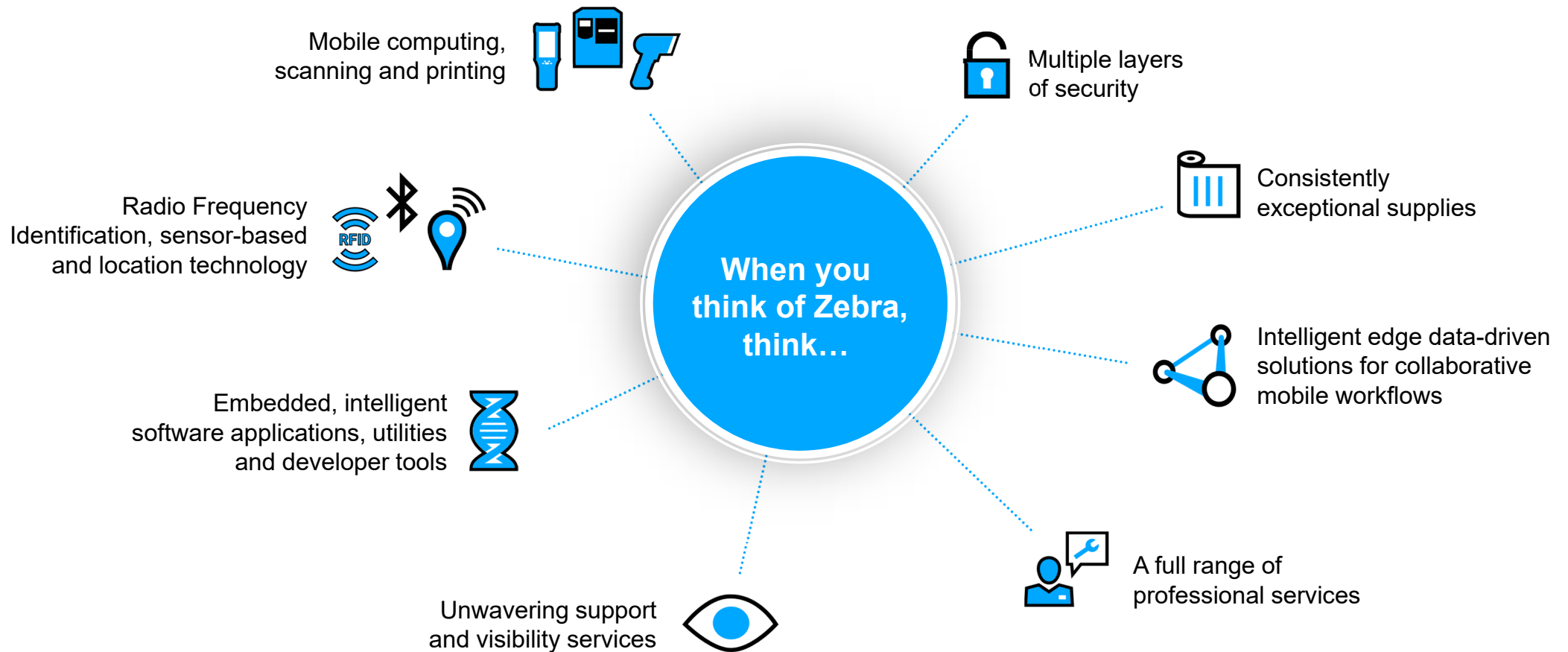use of mobility

Phase 3
Target use of
real-time visibility

Phase 4
Orchestrate wide-spread
use of real-time visibility

Phase 5
Achieve predictive and
adaptative operations

From Inbound to Outbound, Look to Zebra

End-to-End Innovations to Modernize your Warehousing Operations

Mobile computing, scanning and printing

Multiple layers of security

Radio Frequency Identification, sensor-based and location technology

Consistently exceptional supplies

When you think of Zebra, think…

Intelligent edge data-driven solutions for collaborative mobile workflows

Embedded, intelligent software applications, utilities and developer tools

A full range of professional services

Unwavering support and visibility services

What's Inside Hardware Matters
Built-in intelligence gives Zebra devices greater power and performance

Mobility DNA
Mobility DNA makes Zebra Android devices enterprise-ready and secure out-of-the-box, as well as expands their development capabilities to integrate seamlessly with your business applications.

DataCatpure DNA
DataCapture DNA simplifies the scanning experience, from integration to deployment and ongoing management.

Print DNA
Print DNA software tools make Zebra printers easy to set up, use, manage and secure.

Zebra DNA
Software, Apps and Utilities

Management Tools:
Dramatically simplify deploying, maintaining, securing and troubleshooting front-line mobile computers, scanners and printers.

Productivity Tools:
Whether your warehouse workers use scanners, printers or mobile computers, help them get more done in less time.

Development Tools:
Reduce time and risk, using tools that help you create native apps across multiple platforms.

Inbound Operations

Receiving

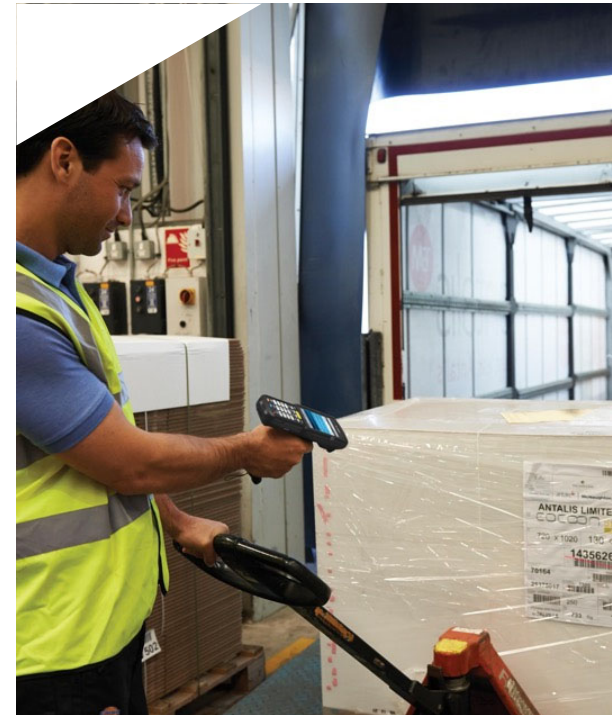Returns Management

Put-Away

Cross-Docking

Open Your Doors to Higher Efficiency

Put your inbound operations in our hands

- Pick up the pace with worker-driven or sensor-based data capture as goods enter the facility

- Ensure correct asset identification for proper put-away

- Positively impact downstream operations with accuracy and dock-to-stock efficiency

Tips to improve accuracy from dock to stock

Invest in supplier management for accurate one-touch or no-touch receipt.

Match the technology to the workflow and mobilize workers whenever possible.

Target inbound processes as a place to start utilizing RFID for automatic data capture.

Optimize Your Receiving Process

When racing against time, Zebra is your ally

Rapidly reconcile advance ship notices, sort materials and accurately locate goods with our intuitive devices and innovative sensors.

MC9300
Mobile Computer

This versatile device enables workers with multi-barcode scanning and eight keypad options for faster receiving

DS3600-HP
Ultra-Rugged Scanners

Unstoppable performance for superior data capture of barcodes in any condition

ZD620
Desktop Printer

Premium print quality and state-of-the-art features for high-volume, mobile workstation printing to label on the spot before put-away

FX9600
Fixed RFID Reader

Achieve low-touch receiving and increased accuracy with the reader that has the highest throughput in its class

ZQ630
RFID Mobile Printer

Free workers to print and encode RFID tags on the go anytime, anywhere

Zebra
Certified Supplies

Quality, service and expertise allows you to accurately label items prior to put-away

Zebra MotionWorks® Warehouse
Powered by Zebra Savanna™

Eliminate at least two touchpoints from the unloading process.

Sensing Hardware

MotionWorks Warehouse Software

Business Application

Professional and Support Services

May not be available in all regions. Contact your local Zebra sales representative or partner.

**Inbound
Operations**

Receiving

> Returns Management

Put-Away

Cross-Docking

Customers Expect Free Returns and Fast Refunds

Satisfy demand with the right technology

Improve accountability to customers by accurately documenting receipt of every returned item.

**TC8300
Touch Computer**

Document receipt and condition with one device

**TC72
Touch Computer**

Speed up returns with a more sizable HD display screen and snap on trigger handle

**ZQ630
Mobile Printer**

Print labels in motion as returned items are received and route them to the next location

**ZT230
Industrial Printer**

Keep high-volume workflows going with clear labeling for next steps

**Zebra IQ
Color Labels**

Quickly sort returns using on-demand color-coded labels

**ET51
Enterprise Tablet**

Confirm complex returns with large touch screen

**DS3678-SR
Ultra-Rugged Scanner**

Capture data from returned items the first time, every time

**MC3330xR RFID
Handheld Reader**

Track returned goods in repair or refurbishment from receipt to shipping

**ZD500R RFID
Desktop Printer**

One-touch printing/encoding of items for repair or refurbishment

Put Items Away with Confidence

Eliminate errors that impact your entire operations

Quickly and safely put everything in its proper place, so picking the right item becomes effortless.

Ultra-Rugged Extended Range Scanners read barcode labels **60% closer** and **35% farther** than similar models in its class

DS3600-ER Ultra-Rugged Scanners

Scan more per shift with long-range scanning that eliminates unnecessary vehicle dismounting

VC8300 Android Vehicle-Mount Computer

Lift safety and accuracy with a graphic touch screen and programmable buttons limiting keypad entry

ZQ630 Mobile Printer

Label as you go with a printer mounted on your lift trucks and pair with a vehicle-mount computer via Bluetooth

MC3390xR Long-Range RFID Handheld Reader

Locate stationary assets or put-away aisles and racks with less effort with the long-range antenna

ATR7000 RTLS Reader

Error-proof put-away by tracking pallets and equipment in motion from receipt to put-away location

May not be available in all regions. Contact your local Zebra sales representative or partner.

Zebra
FulfillmentEdge™
Powered by Zebra Savanna™

HD4000 Enterprise Head-Mounted Display

WT6000 Wearable Computer

RS5100 Bluetooth™ Ring Scanner

Take the guesswork and wasted time out of carton put-away processes. Present workers with a visual of racks.

Orchestrate the Movement of Cross-Docking Operations

Ensure the right shipments are on the right trailer at the right time

Every minute counts. Count on a digitized cross-dock operation to make the most of every minute.

**XPAD L10
Rugged Tablet**

Instruct forklift drivers on their next move; integrated scanner for driver to detach tablet, dismount vehicle and continue capturing barcode data

**DS3600-ER
Ultra-Rugged Scanners**

Scanning certainty despite noise and dimly-lit trailers with three ways to confirm a scan

**MC3390xR Long-Range
RFID Handheld Reader**

Quickly locate assets near and far in fast-paced cross-dock operations

**ATR7000
RTLS Reader**

Automate tracking processes and verifying shipping manifests as they enter or leave a trailer

May not be available in all regions. Contact your local Zebra sales representative or partner.

**ZT411
Industrial Printer**

Print it all, print it fast as goods move from trailer-to-trailer; labeling keeps everything in its place

**Zebra IQ
Color Labels**

Use on-demand color-coding to eliminate guesswork and increase sortation and routing accuracy

Zebra SmartPack™ Trailer
Powered by Zebra Savanna™

Monitor every dock door from a single dashboard to better estimate when each trailer will be full and ready to depart.

Zebra MotionWorks® Warehouse
Powered by Zebra Savanna™

Receive alerts when nearby lift trucks are available to load and unload trailers.

May not be available in all regions. Contact your local Zebra sales representative or partner.

10

Outbound Operations

Picking

Packing

Staging

Loading

Increase Order Fulfillment – Not Your Workforce

Optimize and orchestrate outbound workflows from picking to loading

- Strengthen your workers' capabilities with hands-free and heads-up wearable technology and touch-optimized devices

- Save valuable time with mobile printers and supplies

- Uncover hidden opportunities with intelligent-edge solutions

Tips to keep up with increasing market pressures

Reduce average training time from 4.5 weeks to days with an optimized mobile user experience.

Decrease non-productive walking by introducing autonomous mobile robots your mobile workforce.

Orchestrate operations based on the real-time location of your people, goods and assets.

Mobilize Picking to Increase Daily Throughput and Accuracy

Optimize picking to achieve dynamic workflows

Expedite onboarding, verify accuracy with every scan and keep moving at a rapid pace.

Zebra FulfillmentEdge™
Powered by Zebra Savanna™

HD4000 Enterprise Head-Mounted Display

WT6000 Wearable Computer

RS5100 Bluetooth™ Ring Scanner

Increase picking productivity up to 24% with dynamic workflows.

- Receive consolidated electronic work orders to fulfill multiple orders within a zone.
- Use the latest in wearable technology to see pick-orders in line-of-sight.
- Rich content such as step-by-step directions, flow rack layout and item photos promotes accuracy.
- No WMS upgrade necessary.

XSLATE L10 Rugged Tablet

Drive pallet picking efficiency with touch-screen access to WMS

DS36000-SR and -ER Ultra-Rugged Scanners

Capture the right barcode data among multiple barcodes with each scan

ZQ600 Series Mobile Printer

Reduce errors and increase efficiency with on-the-spot labeling

MC3390xR RFID Handheld Reader

One mobile computer locates RFID tags and scans

MC3300x Mobile Computer and HS3100 Headset

Support voice-directed picking with scanning to confirm picks with a user-friendly interface

May not be available in all regions. Contact your local Zebra sales representative or partner.

Confirm Contents. Pack with Confidence.

Together, we can raise customer satisfaction

By digitizing packing operations, you can validate order accuracy and customer addresses.

**WT6000
Wearable Computer
RS5100 Ring Scanner**

Work this hands-on job hands-free for greater focus, accuracy and productivity

**ET51
Enterprise Tablet**

Large screen offers versatility to verify order quantities and contents; WorryFree Wi-Fi ensures constant connection to WMS and printers

**DS3678-SR
Ultra-Rugged Scanner**

Scan barcodes the first time in virtually any condition to ensure accuracy and avoid bottlenecks to meet increasing customer demands

**FX9600
Fixed RFID Reader**

Validate outbound shipments to avoid disruption and chargebacks with a final record of the UPCs for irrefutable proof of delivery

**ZT610
Industrial Printer**

Keep up with high order volumes with the best-in-class registration output of 4" crisp quality shipping labels

Zebra Z-Slip

Save time with all-in-one packing slips that you simply print, peel and apply to the outer carton or shrink-wrapped pallet

Zebra
FulfillmentEdge™

Powered by Zebra Savanna™

HD4000 Enterprise
Head-Mounted Display

WT6000
Wearable Computer

RS5100 Bluetooth™
Ring Scanner

Enable workers to quickly and effortlessly sort multiple orders and correctly consolidate them for shipment.

Avoid Disruption and Customer Dissatisfaction

Stage the right items in the right lane

Advanced technology gives workers the advantage to stage with confidence and reduce errors.

MC3300x
Mobile Computer

Direct and confirm pallet movements with this versatile mobile computer, customizable with four different form factors to work your way

VC80x Android
Vehicle-Mount Computer

Give operators mobile access to staging instructions and pair with a rugged scanner for fast, accurate data capture

DS3678-ER
Ultra-Rugged Scanner

Cordless, long- and standard-range scanning with PowerPrecision+ batteries to stage orders efficiently without disruption

Zebra IQ Color Labels and
ZQ600 Series Mobile Printers

Avoid shipment mistakes or lost orders, printer color labels on-demand and stage by color

ATR7000
RTLS Reader

Instantly cross-check trailer assignments in real time to ensure orders are properly placed for loading

May not be available in all regions. Contact your local Zebra sales representative or partner.

Zebra MotionWorks® Warehouse
Powered by Zebra Savanna™

Automatically identify outbound shipments in real time in each staging location.

Sensing Hardware

MotionWorks Warehouse Software

Business Application

Professional and Support Services

**Outbound
Operations**

Picking
Packing
Staging
> Loading

Load Outbound Shipments with Accuracy and Efficiency
Let us help guide your best-next-move on the loading dock

Keep pace with the rising volume of packages and shrinking delivery schedules.

VC80x Android Vehicle-Mount Computer

Empower drivers to easily view clear instructions and execute multiple steps with a single touch using the 12 programmable keys for timely and accurate pallet loading

DS3678-SR Ultra-Rugged Scanner

Cordless Bluetooth® scanning without interfering with the wireless network. Wi-Fi Friendly mode lets workers scan and confirm every parcel and pallet loaded.

FX9600 Fixed RFID Reader

Get the flexibility you require to validate shipments while loading—directly connect to Wi-Fi networks and Bluetooth enabled devices. Rugged mount available for forklifts.

MB4000 Ruggedized Bluetooth® Beacon

Make this part of your solution to verify the right carton or pallet is on the correct trailer, this waterproof, durable beacon withstands the elements and provides a location in less than a second

Zebra MotionWorks® Warehouse
Powered by Zebra Savanna™

Eliminate the need to manually confirm trailer load accuracy by automatically creating an electronic manifest.

Zebra SmartPack™ Trailer
Powered by Zebra Savanna™

See what is happening inside every dock door from one dashboard to better manage trailer fullness, load density and load quality for reduced transportation costs.

May not be available in all regions. Contact your local Zebra sales representative or partner.

16

Inventory Management

Cycle Counting

Cold Chain Management

Manage Inventory Smarter
Make every transaction count. Automate for accuracy.

- Forgo missing or low stocks that impact fulfillment

- Ensure data capture at every touch point

- Make cycle counting more productive for faster, more frequent counts

Manage inventory with the right tech for your environment and workflow

Replace manual counting with mobile computers and handheld scanners that help workers verify inventory count efficiently, locate discrepancies and update upon manager approval.

Deploy devices built to withstand harsh environmental conditions to ensure inventory is managed in all areas of your warehouse.

Utilize real-time data capture, machine learning and artificial intelligence to predict preferred slotting location of incoming inventory for future accessibility.

Forgo Out-of-Stocks and Low Stock

Achieve inventory accuracy with constant and consistent visibility

Employ regular cycle-counting practices that best fit the size and volume of your business.

MC3300X Mobile Computer

Accelerate cycle counting with Mobility DNA All-Touch Terminal Emulation with an intuitive graphical user interface

XSLATE L10 Rugged Tablet with RS5100 Bluetooth Ring Scanner

Conveniently work from a mobile workstation with a mounted tablet; hands-free scanning makes moving inventory easy when counting

DS3600-ER Ultra-Rugged Scanners

Accelerate cycle counts by capturing virtually any barcode in any condition – farther, faster and the first time, every time

MC3390xR Long-Range RFID Handheld Reader

Gain control of critical inventory using automated data capture with RFID handhelds to find and verify tagged goods more than 60 ft./18.2 m away

ZT400 Series RFID Industrial Printers

Encode RFID tags and barcode labels for added product identification to verify contents accurately during cycle counting

Z-Perform 1500T and 1500D

Depend on quality labels, rigorously tested for consistency to deliver exceptional, long-lasting product identification accuracy

Supplies names may vary by region. Contact your Zebra sales representative or partner

Cycle Counting Operations

> Cold Chain Management

Increase Consumer Safety and Reduce Inventory Waste

Enter and retrieve data even in freezers and refrigerators

Get the job done with devices made for the cold.

VC8300 Android Vehicle-Mount Computer	**DS3600-SR Ultra-Rugged Scanners**	**MC9300 Freezer Mobile Computer**	**FX9600 Fixed RFID Reader**	**ZQ500 Series Mobile Printers**	**Zebra Certified Supplies**
Track inventory moves in extreme temperature changes or humidity with smart temperature sensors and internal heaters	Capture every inventory transaction with these cold-rated scanners that can even read labels covered with frost	Keep inventory in check, even in extreme temperatures as low as -30ºC (-22ºF), with integrated heaters for accurate data capture	With this highly sensitive RFID reader outside freezer portals, workers have less exposure to cold and inventory movements in and out of freezers are tracked automatically	Print labels on-the-go, even in cold environments, with cold-temperature compensation for optimal speed and quality	Depend on durable, cold-temperature labels that adhere in temps as low as -40ºC (-40ºF) and stay put if temps dip to -54ºC (-65ºF)

Use Cases and Deployment Environments

Before you select a device, assess how and where you will be deploying it.

❄ Cold-rated Devices	◌ Condensation-resistant Devices	◌ Condensation-free Devices
Designed for working in a single temperature zone and minimal movement between cold and warm environments. Temperature shock and condensation are not an issue.	Designed to withstand moderate temperature shock and condensation, ideal for constant movement between refrigerators/ cooler and temperature-controlled, less humid areas	Designed to withstand severe condensation occurring from the constant travel between the freezer and warm areas with high humidity

20

Worker Safety
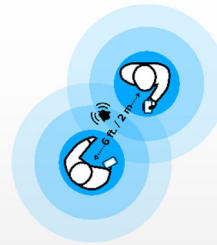# in the Warehouse

Turn Work Zones into Safe Zones

Tools and technology to keep your business operational
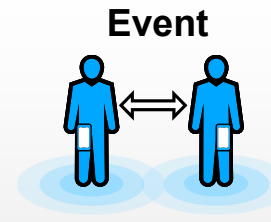
Zebra
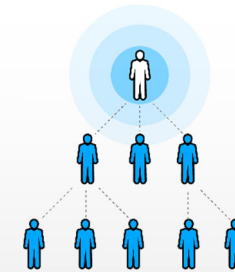**MotionWorks®**
Proximity

Powered by Zebra Savanna™

Device Disinfection

Proximity Alerts

Event

Proximity Events

Contact Tracing

Use these supported devices you may already have in your warehouse

MC9300 Handheld Mobile Computer

MC3300x Handheld Mobile Computer

TC8300 Touch Computer

TC72/TC77 Touch Computer

EC30 Touch Computer

MB6000* Mobile IoT Bridge

Haptic/Vibration alert

Audible alert **Note:** Mobile Computers require Android O, M and N OS

Solution may not be available in all regions. Contact your local Zebra sales representative or partner.

Protect Your Most Valuable Asset – Your Workforce

Social distance, sanitize devices and communicate remotely

Trust the first name in front-line performance for worker safety.

WT6000
with accessories

RS5100 Single-Finder
Ring Scanner

RS5100 Detachable
Trigger Only

Zebra Workforce Connect™
Powered by Zebra Savanna™

Stay connected at a safe distance

Use push-to-talk voice and data communication to communicate with individuals, groups or for training

Zebra FulfillmentEdge™
Powered by Zebra Savanna™

Minimize congestion by optimizing workflows

Give workers a consolidated electronic work order to fulfill multiple orders within their zone to keep them socially distanced

May not be available in all regions. Contact your local Zebra sales representative or partner.

**Video on Device
Remotely train workers**

Eliminate the risk of large-group training in a single room, load application training and "how-to" demo videos on workers' mobile computers

Zebra Disinfecting Guidance and Accessories

Refer to Zebra for instructions on how to sanitize shared devices, as well as add an extra layer of protection with personalized accessories for wearables to minimize the risk of infection

Global Services

Modernize with Ease

Let our professionals show you how

Zebra Signature Services
Exploit new opportunities by unlocking intelligence
from your data and putting it to work.

Software
Integration

Learning
as a Service

Workflow and
Design Consulting

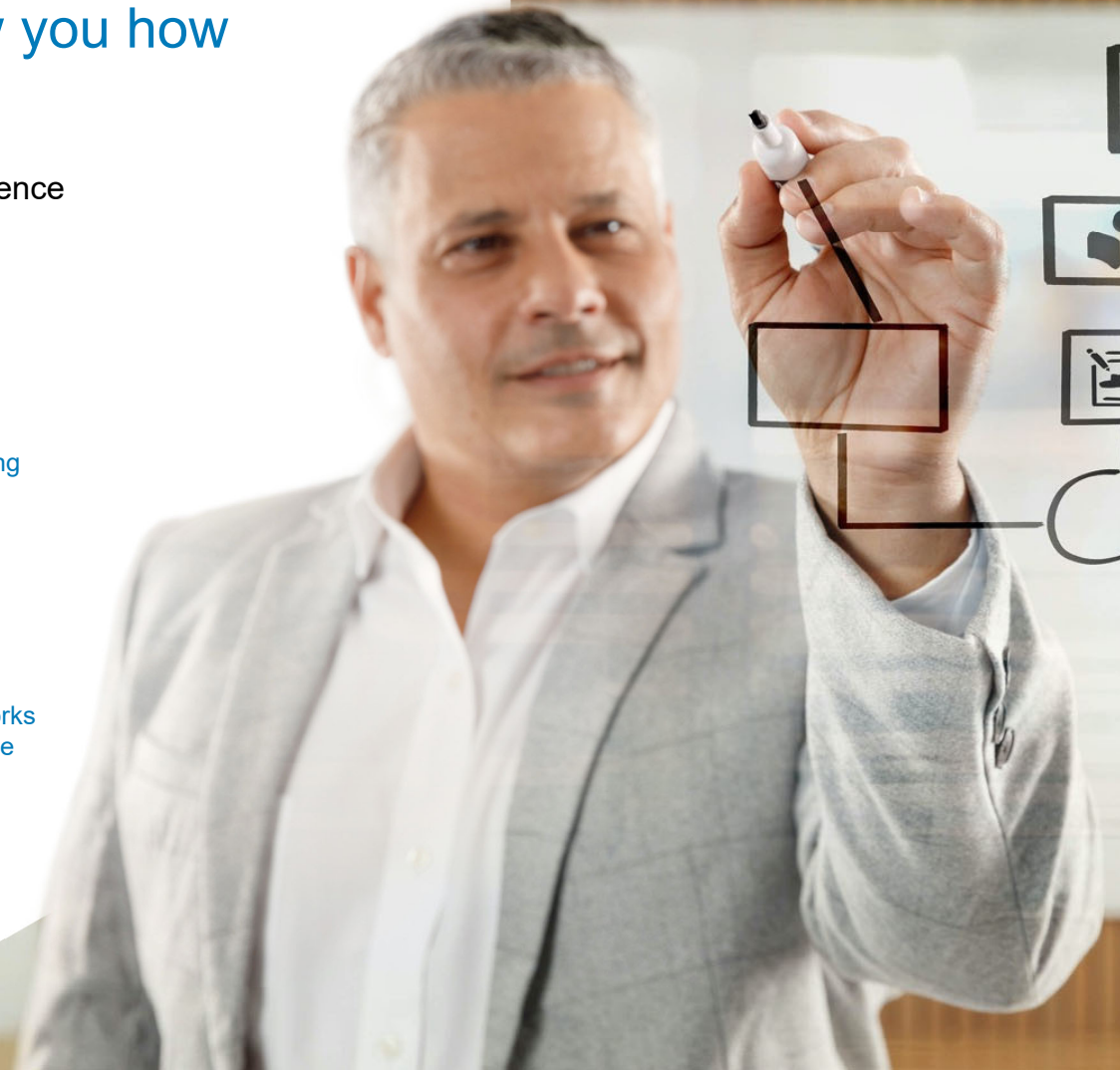Program
Management

Solution
Jumpstart

Solution
Validation

RFID Design
Signature Service

Voice Enabled
Signature Service

Zebra MotionWorks
Signature Service

Some Signature Services may not be available in all regions. Contact your local Zebra sales representative or partner

Zebra OneCare™ Support and Maintenance Services
Maximize uptime and ROI

Constant, peak performance and a fast return on investment—eliminate unexpected disruptions and unbudgeted repairs.

Choose the Zebra OneCare Support Services right for you:

Zebra OneCare Essential

- Comprehensive repair services
- Software support
- 8x5 technical support (plus 24x7 online support)
- 3-day repair turnaround service
- Device Diagnostics*
- Access to cloud-based support dashboard and reports insight**

Zebra OneCare Select

All the features of Essential Service, plus:

- Next business day advanced "like new" device replacement
- Standard Commissioning Service (OS and LifeGuard levels, your applications and software so your devices are ready-to-go out of the box)
- 24x7 helpdesk support
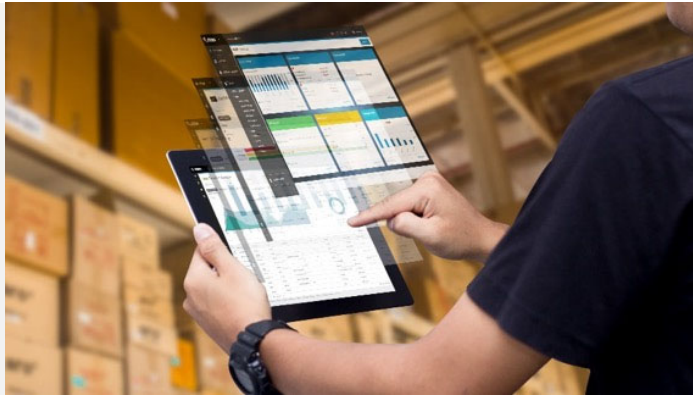
Zebra OneCare Specialized Coverage Options

- **Technical and Software Support (TSS)** Standalone technical support services and software support
- **Zebra OneCare SV** Right-priced support for Zebra Value-Tier devices
- **On-Site Support** One call brings a Zebra-trained and certified service technician to your facility

*Zebra Mobile Computers only
**Zebra Mobile Computers and Scanners only. Cloud-based visibility into repair, cases, contract reports and more.
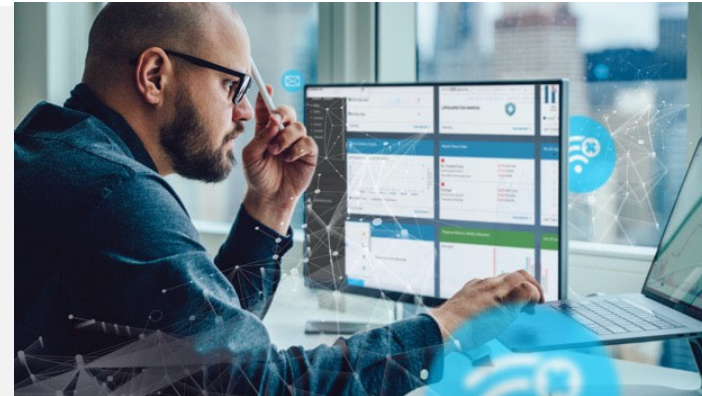
Zebra Visibility Services

Zebra VisibilityIQ™ gives you the data-driven, actionable insight when and how you need it. Get a clear view into how your devices are performing and know what next steps can increase productivity and decrease expenses.

VisibilityIQ™ OneCare™

View status of device repairs, technical issues, contracts, case reports and software, and LifeGuard™ security status visibility.

Included with your Zebra OneCare support contracts for mobile computers and scanners

VisibilityIQ™ Foresight

Cloud-based business intelligence tool combining multiple data sources to provide actionable insights in a single pane of glass to streamline workflows.

Visibility Services may not be available in all regions. Contact your local Zebra sale representative or partner.

Thank You

To learn more, please visit
www.zebra.com/warehouse

ZEBRA