



Zebra Guardian™

A comprehensive, customizable portfolio
designed to enhance device availability
and streamline access control

March 17, 2025



Kreski

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Więcej informacji: www.kreski.pl

Agenda

- Why Zebra
- Challenge and Solution
- Identity Guardian
- Device Guardian
- Device Guardian Access Management
- Guardian Cabinets
- Zebra Services



Why Zebra

Why Zebra

Extensive Reach

Scalable to meet any enterprise demands

\$4.58B
Global sales

120
Offices globally

~6.8K Patents and patent applications worldwide

9.75K+
Employees worldwide in 55 countries

10K+ Channel Partners in over 185 countries

~11%
of sales R&D

Leader Status

Gartner Magic Quadrant for Indoor Location Services—Global

#1

Rugged Mobile Computing

Data Capture

Barcode Printing

Mobile RFID

Our People Make the Difference



Channel Accolades



More people trust Zebra Mobile Computers for Enterprise than any other manufacturer in the world

No one can push your performance edge like Zebra

50+

For over 50+ years, we have been the unmatched global market leader in rugged mobility.



We are at the forefront of the Android™ revolution, the future of enterprise mobility.



We deliver features and benefits no one else can.





Challenge and Solution

When mobile devices are unavailable, organizations sacrifice time, money and productivity



Workers lose productivity when devices aren't fully charged to last their entire shift



Overly complex login procedures frustrate workers before they even begin their daily tasks



Shared device pins or passwords reduce accountability and can lead to security breaches — and devices are less likely to be treated with care, resulting in a higher risk of damage



Missing devices negatively impact worker productivity — and many lost devices are never found, forcing additional spend to replace



IT and support teams spend countless hours trying to keep up with device access and management tasks



The importance of simplifying mobile device access, security and management

80% of the world's workforce is made up of frontline workers¹ — who are all becoming increasingly reliant on mobility tools to do their jobs.

Companies considering mobile device investments **need better solutions to maximize their device ROI and streamline their operations.**



Optimize Zebra device availability and access for frontline workers with

Zebra Guardian™

A configurable and integrated portfolio of end-to-end device access solutions that can be layered to achieve the level of **device accountability, recovery, access control** and **device availability** your business needs

Maximize device availability for frontline workers through fast check-in, fast device recovery and secure storage

Ensure device readiness with real-time visibility into battery charge status and utilization

Minimize costs, productivity loss and security risks due to insecure login methods — or unavailable, missing or stolen devices

Streamline device access management to increase workforce productivity, operational efficiency and device ROI



Secure device log-in

Access control

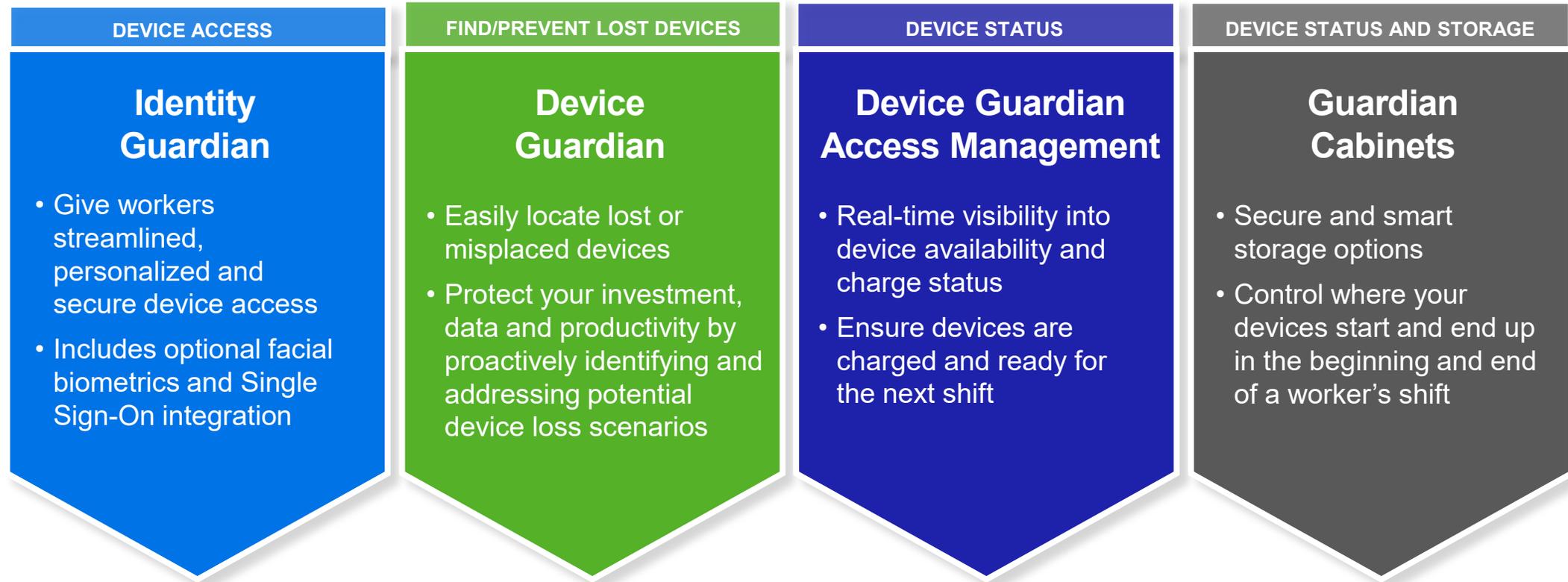
Real-time device status

Loss/theft prevention and device recovery

Secure storage

Four configurable and integrated solutions

Zebra Guardian™



**Seamlessly built to meet your needs today...
and evolve with your business to meet your needs tomorrow.**

Zebra Guardian

— so much more than just device access



	DEVICE ACCESS		FIND/PREVENT LOST DEVICES	DEVICE STATUS	DEVICE STATUS AND STORAGE
	Identity Guardian		Device Guardian	Device Guardian Access Management	Guardian Cabinet
	Free	License for Purchase	License for Purchase	License for Purchase	Hardware for Purchase
DEVICE ACCESS					
Check In/Out User Data Time Stamps	•	•	•	•	•
Multi-Factor User Authentication	•	•	•	•	•
Role Based Access	•	•	•	•	•
Single Sign On (SSO) for Zebra applications	•	•			
Single Sign On (SSO) for 3 rd party applications		•			
Biometrics (Face)		•			
FIND/PREVENT LOST DEVICES					
Automated Identification of Lost/Misplaced Assets			•	•	•
Device Recovery Software for Fast Asset Retrieval			•	•	•
Device Recovery Dashboard and Reports			•	•	•
Device Readiness Assurance			• ¹	• ¹	• ¹
Site vs. Company Device Lost Metrics			•		
Locate Devices Shipped to Wrong locations			•		
Awareness of Lost or Misplaced Devices			•		
DEVICE STATUS					
Asset Assignment and Availability				•	•
Asset Availability — all mobile computers and wearable scanners*			•	•	•
Asset Utilization and Reports Within/Across Sites				•	•
ET4/CC6 Display				•	•
Cradle Locks Software Control				•	•
DEVICE STORAGE					
Cradle Lock for Zebra Mobile Computers					•
Intelligent Cabinets					•

1. Device Guardian enables devices to broadcast their location to easily find lost devices; Device Guardian Access Management also provides visibility into when devices were fully charged with plenty of power for a full shift

Designed for all your Zebra Mobile Computing Devices

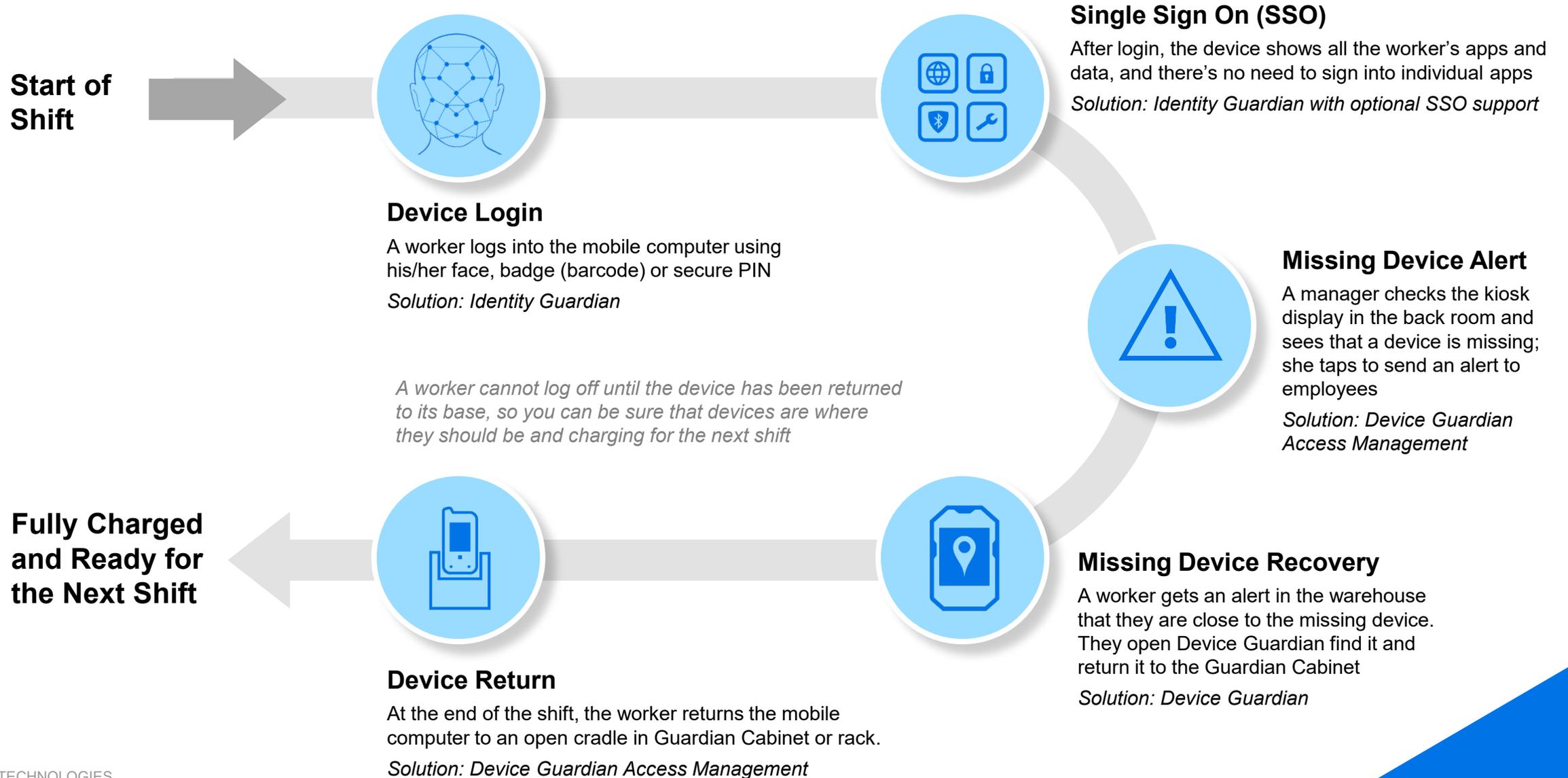
Benefit from a shared accountability, recovery and access platform for all your Zebra mobile devices

Zebra Guardian works with:

- **Mobile computers**
- **Tablets**
- **Wearable computers**
- **Vehicle mount computers**
- **Wearable scanners**



Zebra Guardian Flow Process





Identity Guardian

Offer secure, personalized access
to mobile devices

Identity Guardian

Secure and personalized device access

Convenient and secure user login to enterprise shared or personally assigned mobile devices — while ensuring the utmost protection and privacy of user and corporate data.

- Secure lock screen
- Check-in/check-out and accountability
- Multi-factor user authentication
- Role-based personalization — create a unique device access experience for users based on their role
- Facial biometrics¹ let workers seamlessly and securely unlock a mobile device (optional add-on)
- Single Sign On (SSO) integration with identity providers (IdPs) streamlines application access by requiring users to only log in once (optional add-on)
- The Guardian Safe feature makes SSO even easier: securely stores user name and password after a single entry on the login screen of any application; automatically fills in credentials on future logins



Eliminates today's 5 key challenges

No more complicated processes to hinder device control

1 No device passcode results in lack of device control

2 Shared device PIN equals no accountability

3 Overly complex PIN and passwords to remember

4 Traditional biometric solutions support single, **not shared users**

5 Storing user data in the cloud has **personal information liability concerns**



Core Elements of Identity Guardian

Identity Guardian brings together broad capabilities and robust security measures in an intuitively designed interface to protect your mobile devices and their invaluable contents



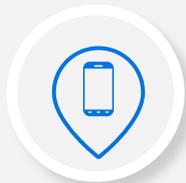
Zebra DNA Cloud

Enables seeing all the user profiles that have been created, which devices are active, who is using each of them and/or who has signed out



Enterprise Home Screen

This Zebra DNA tool allows you or your IT manager to customize what applications each employee can access, based on their specific role



Device Guardian

Part of the Zebra Guardian toolset, Device Guardian makes it easy to recover lost, stolen or misplaced devices. Identity Guardian will instantly identify the person who used the device last to help with the recovery process



On-device Application Programming Interfaces (APIs)

Facilitate seamless integration with your existing solutions

Identity Guardian Integration

Identity Guardian APIs allow other applications installed on the device to interact with and gather information from the solution

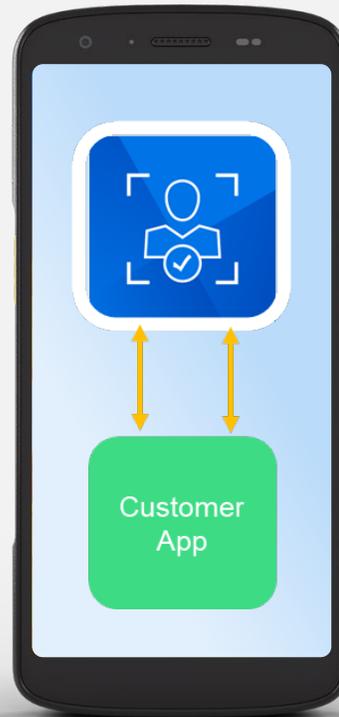
How it works:



Alerts about new user sign on



Shows who has signed on



Identifies the user's role



Registers the time they sign on

Flexible, easy and secure sign-on

Adapts to your device strategy and security requirements

Shared devices

Employees can use any device

Key Advantages

- **Control of personal data:** Employees can delete their data at any time
- **Device access:** biometrics or a secure and unique PIN
- **Roles:** customize employee device experience based on their role
- **No limit:** A device can recognize an unlimited number of users
- **Ideal for temporary workers:** Issue login barcodes that automatically expire at a set date and time



Individually assigned devices

Employees use the same device

Key Advantages

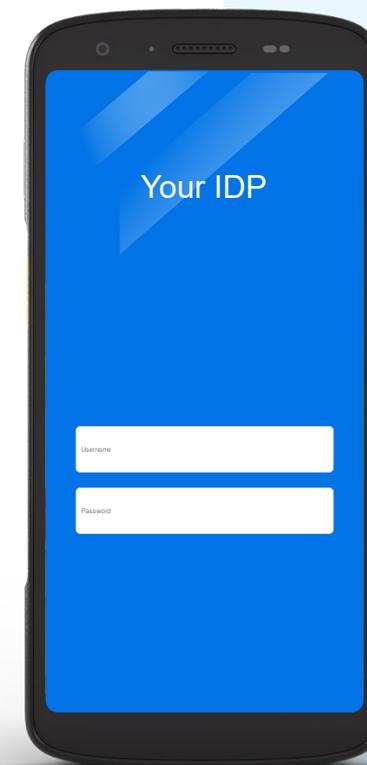
- **Control of personal data:** Employees can delete their data at any time
- **Device access:** biometrics or a secure and unique PIN
- **Roles:** customize employee device experience based on role
- **Data security:** data is encrypted and stored securely within the Android framework
- **Visibility into security method:** see how users log in to their assigned device
- **Remotely reset PIN:** see PIN and assist with PIN resets
- **Override screen lock:** troubleshoot without access to personal data



Add Single Sign On (SSO)

Key Advantages

- **Log in one time:** access all relevant applications
- **Better employee experience:** reduces hassle and frustration, no need for users to manage multiple log-in credentials for multiple apps
- **Increases productivity:** saves time — no need to constantly log in and out of apps
- **Increased security:** every device unlock will compare user vs existing device SSO user; biometrics eliminates the need for users to manage credentials

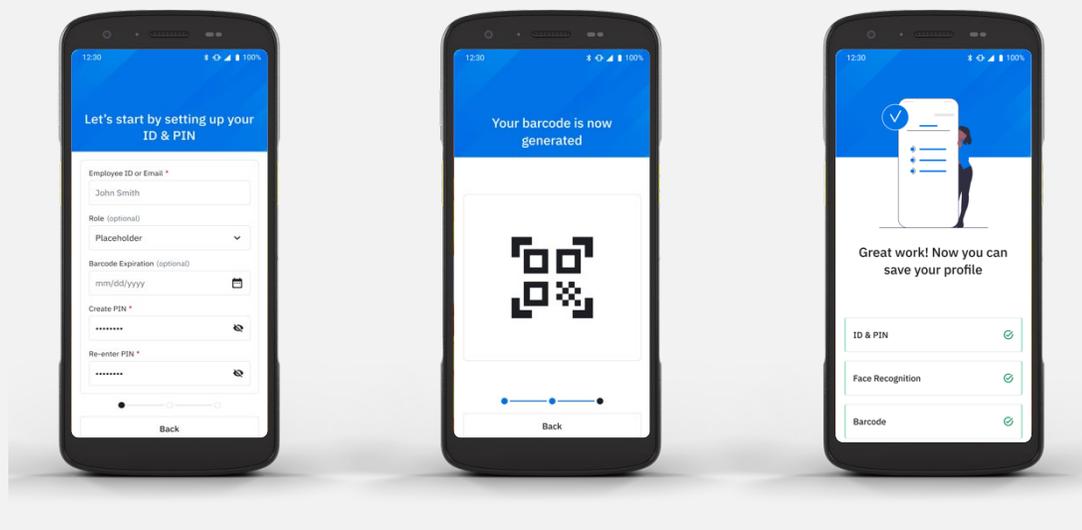


How Identity Guardian keeps user data safe

Identity Guardian implements multiple layers of protection to safeguard your employees' personal data

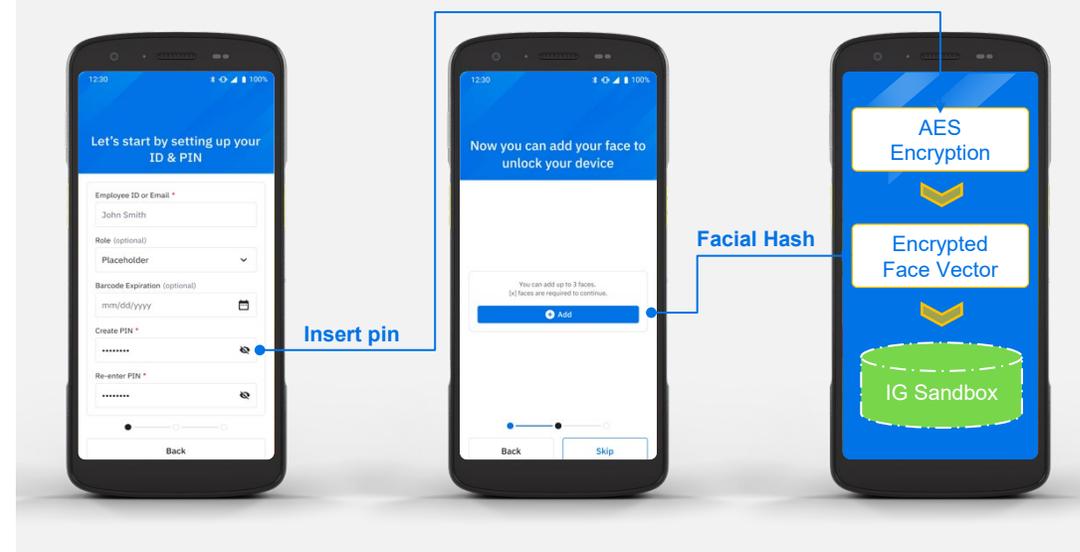
Shared Device

Your employees' personal data is encrypted securely within a personally managed barcode



Personally Assigned Device

Your employees' personal data protection is handled within the Android framework



How will your business benefit from Identity Guardian?



Improve workflow efficiencies

A familiar user experience and simplified login access mitigate employee frustration and reduce wasted time at the start of every workday



Increase data security

Identity Guardian implements multiple layers of protection to safeguard company and employees' personal data in both shared and personally assigned devices



Increase employee accountability

Helps ensure accountability and lower device abuse or theft, as administrators always know who signs on and off any device



The background of the slide is a photograph of a warehouse. In the foreground, a Zebra mobile device, which is a rugged smartphone with a barcode scanner, is lying on a stack of cardboard boxes wrapped in clear plastic. The boxes are stacked on a pallet. In the background, there are more stacks of boxes on high industrial shelving units. The lighting is bright, typical of a warehouse environment. A blue diagonal graphic element is overlaid on the bottom left of the image.

Device Guardian

Locate Zebra mobile devices and wearable scanners inside or outside your facility



Device Guardian

Find your devices inside and outside the 4 walls — even if the device is powered off...

Protect your hardware investment, data and workforce productivity with this full-scale, cloud-based solution that helps keep devices in workers' hands and make them easy to recover when accidentally misplaced.

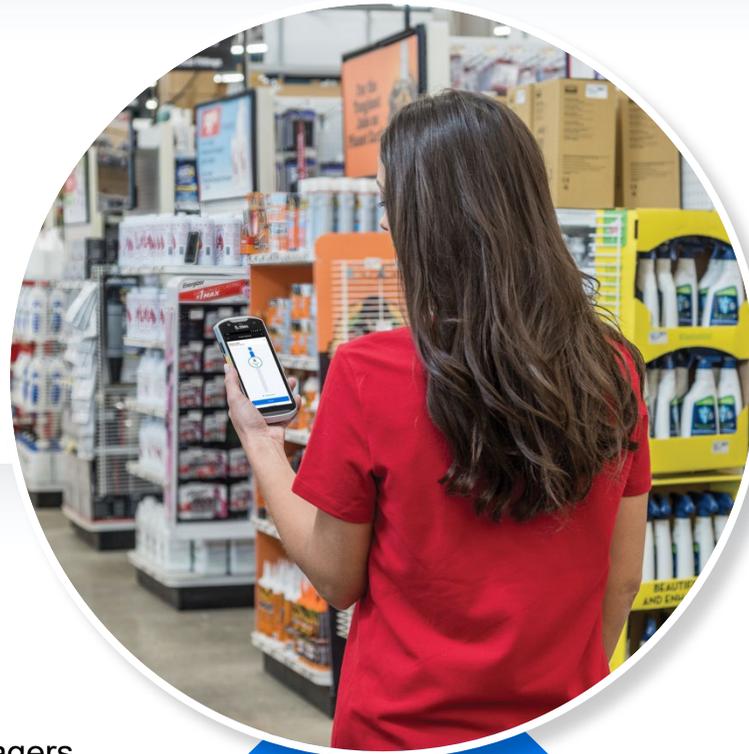
- Automated at-risk device detection and notifications – identify at-risk devices before they are permanently lost
- Locate and recover lost devices within minutes
- Reports monitor and log events associated with your devices, such as devices moving between facilities
- Integrates with Identity Guardian to boost accountability – know the last worker to sign on before a device went missing
- Access the web-based dashboard from anywhere with any browser



Give your teams everything they need to monitor, flag and recover devices

Easy-to-deploy and scale

- No new infrastructure to purchase
- Zebra takes care of the server, from setup and management to maintenance and monitoring
- Scalable: locate over 100,000 devices in over 5,000 sites



Risk identification and prevention

- Set thresholds for when devices are at risk and flag them to be found
- Notify users when they are near a lost device for "crowd sourcing"
- Machine Learning to identify "at-risk" devices
- Ring Scanner virtual tether

Awareness and reporting

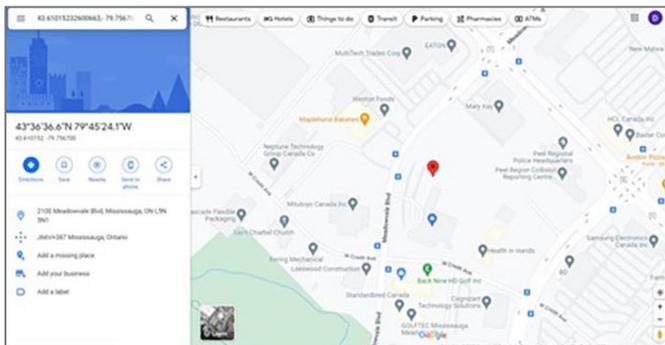
- Web Portal for managers and admins
- Enhanced reports for admins
- Enhanced End of Day Reports for site managers

Fast recovery

- Simple proximity indicator lets you know how close the device is and guides you there
- Find powered off devices (requires BLE battery)
- Map-Based Locationing — precisely geolocate devices on Google Maps

Advanced features built for the enterprise

A field service worker left a device behind at a customer site? **No problem.**



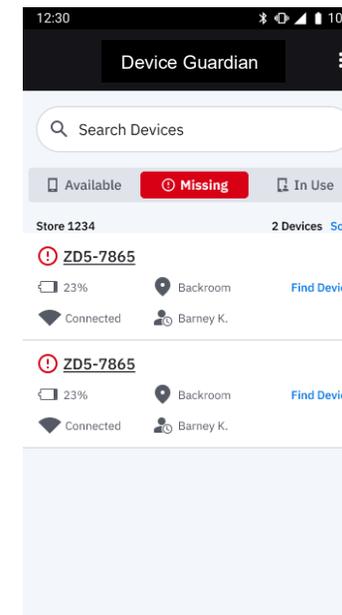
Device Guardian works outside the four walls. Map-Based Locating shows device location on Google Maps.

A missing device may have run out of power? **No problem.**



When you buy Zebra devices equipped with BLE batteries, you expand Device Guardian's capability to locate powered-down devices.

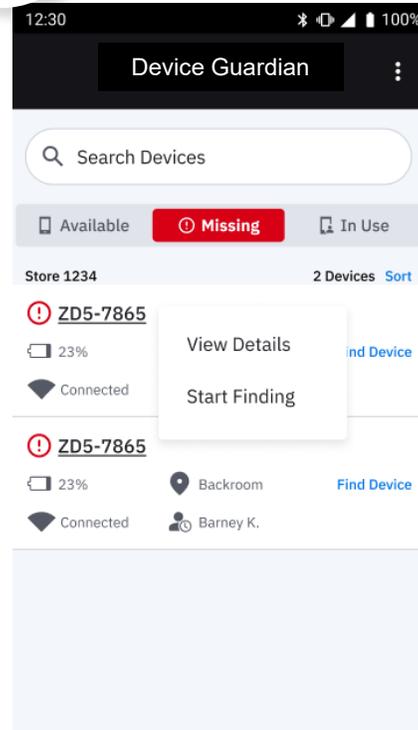
Don't have time to monitor the fleet for misplaced devices? **No problem.**



Device Guardian automatically triggers alerts and generates a work order when devices have not reported in for a specified time or the battery level dips below your defined threshold.

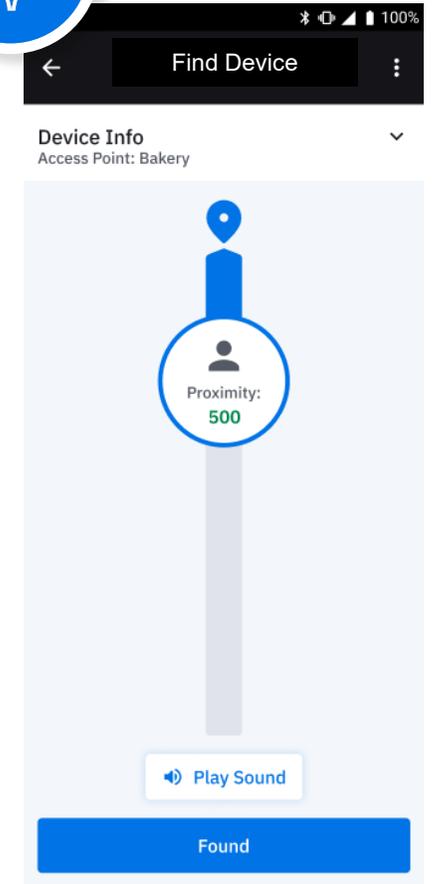
Easily view your missing devices

- One click places any device into 'To Be Found' mode
- Automatically generates a work order that appears on all Zebra mobile devices running Device Guardian in that facility
- Device status updates as soon as the work order has been accepted

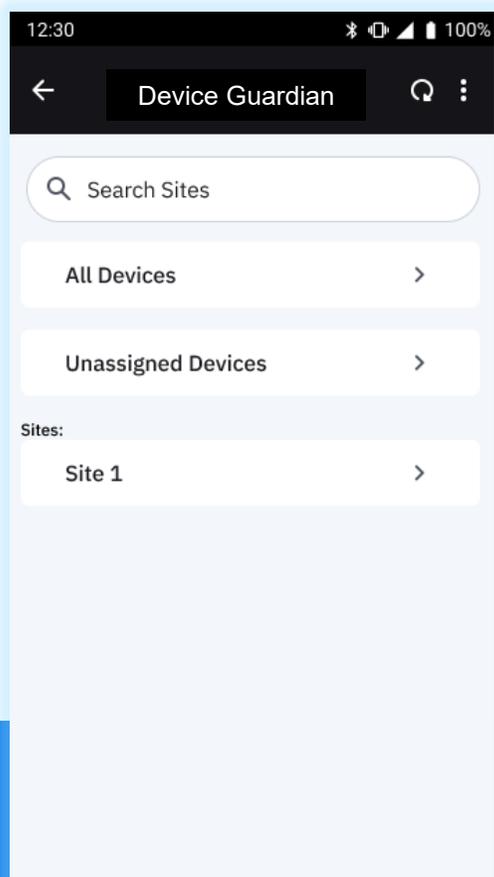


Quickly find devices with a Geiger-counter style interface

- Simply open the Device Guardian app on a supported Zebra mobile computer to see the missing device's general location (e.g. Sporting Goods or Cosmetics)
- Proximity indicator identifies how far away you are — and whether you are moving closer or farther away
- Remotely ring the device to help find devices that are hidden from view

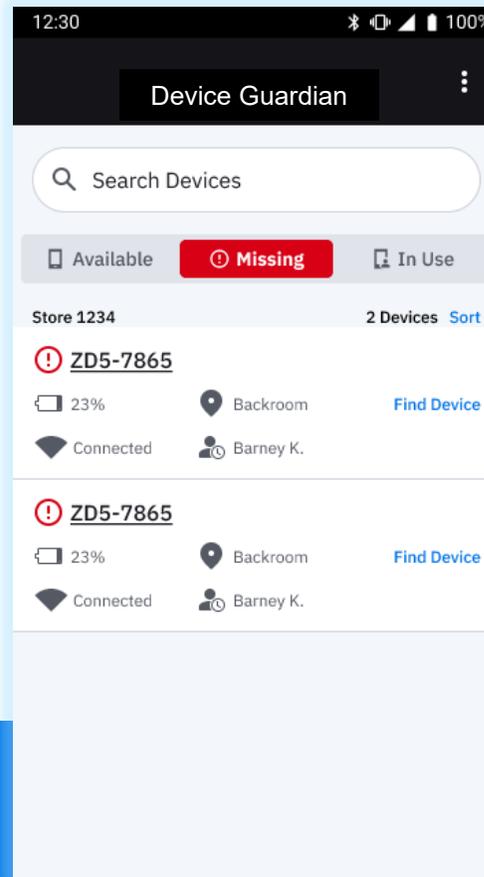


The right level of access for every user



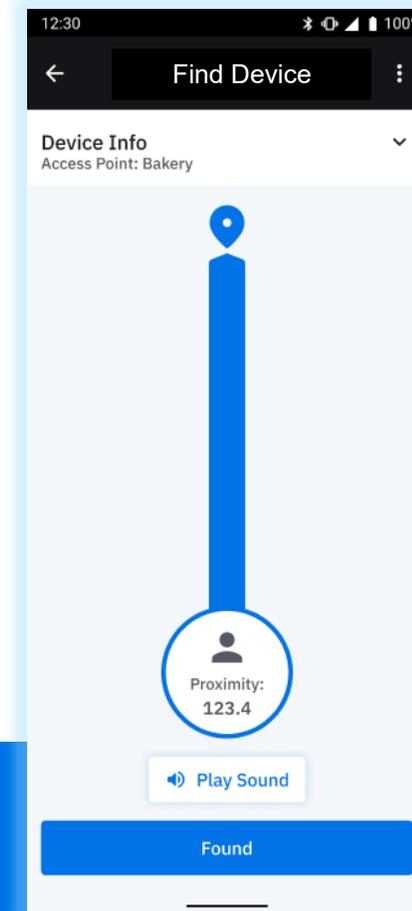
Administrators

View the status of all devices across all locations



Managers

View the status of all devices in their location



Associates

View misplaced devices that need to be found

Device Guardian success story



Customer profile:

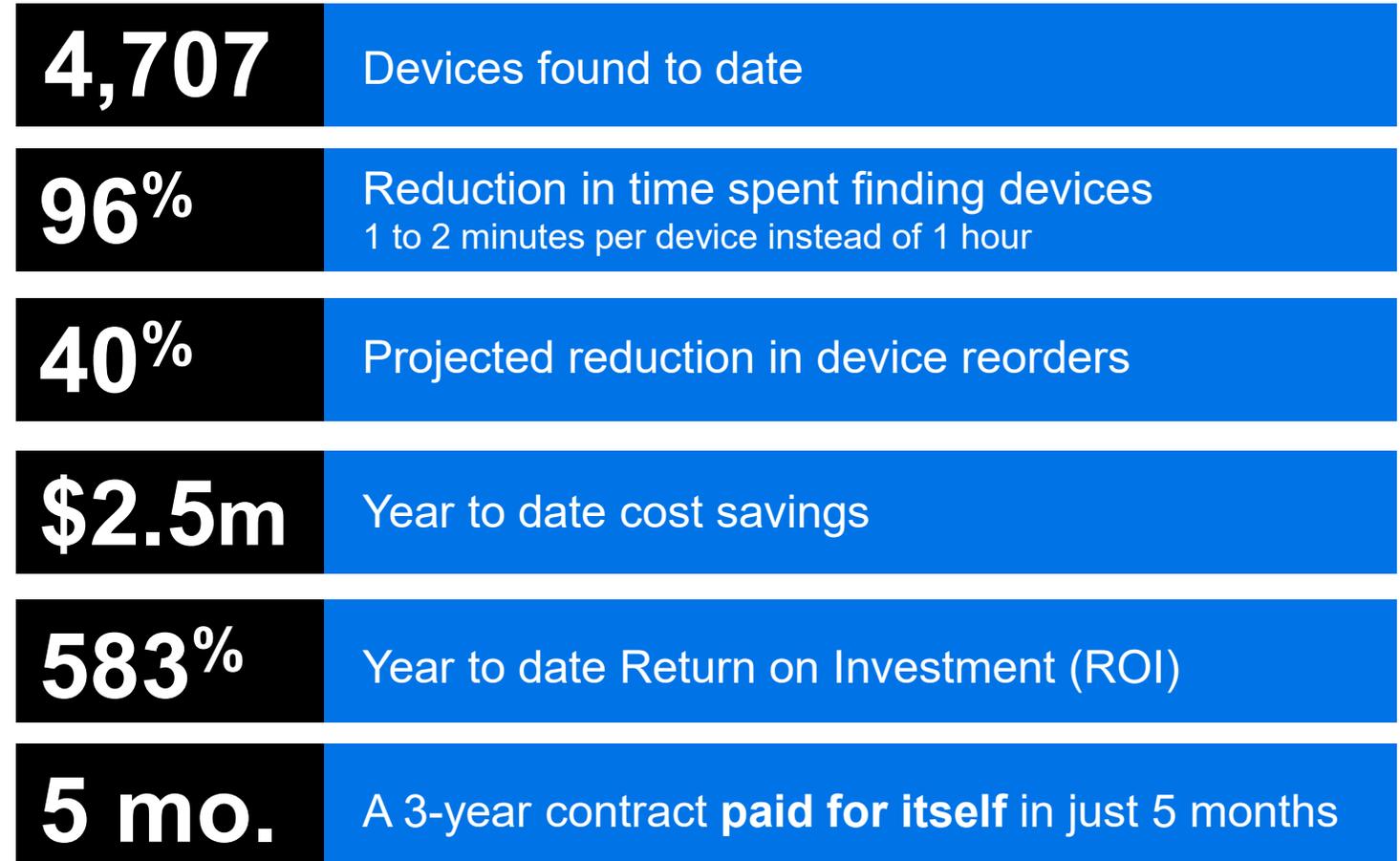
A leading warehouse club operator in North America

The problem:

20% lost devices

Before deploying Device Guardian, the warehouse club retailer was losing an average 20% (12,031) of devices per year

Results after one year:



How will your business benefit from Device Guardian?



Maximize device availability

Identify lost devices early and recover them swiftly to ensure devices are available, lowering replacement and spares costs



Maximize workforce productivity

Employees can concentrate on their core responsibilities, maximizing productivity rather than spending time locating missing devices



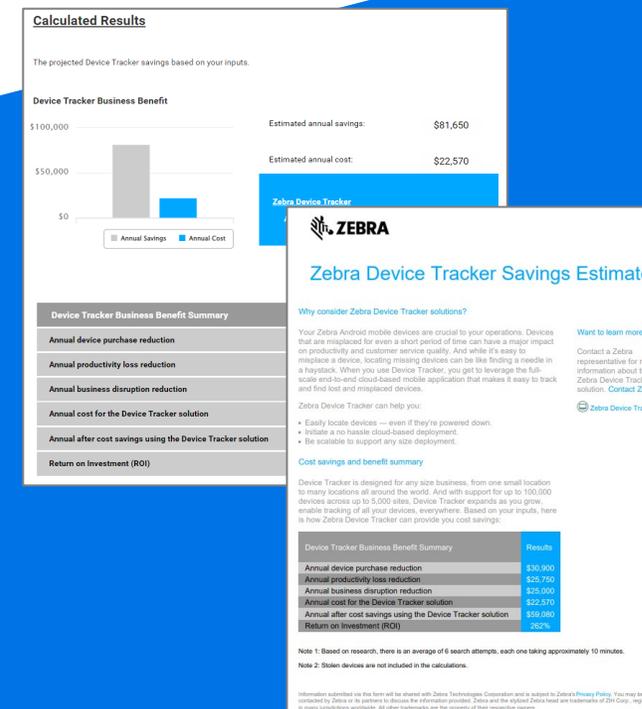
Reduce the cost of recovering devices

No more aimless searches for a missing device – employees can quickly retrieve misplaced devices utilizing directional guidance and sound



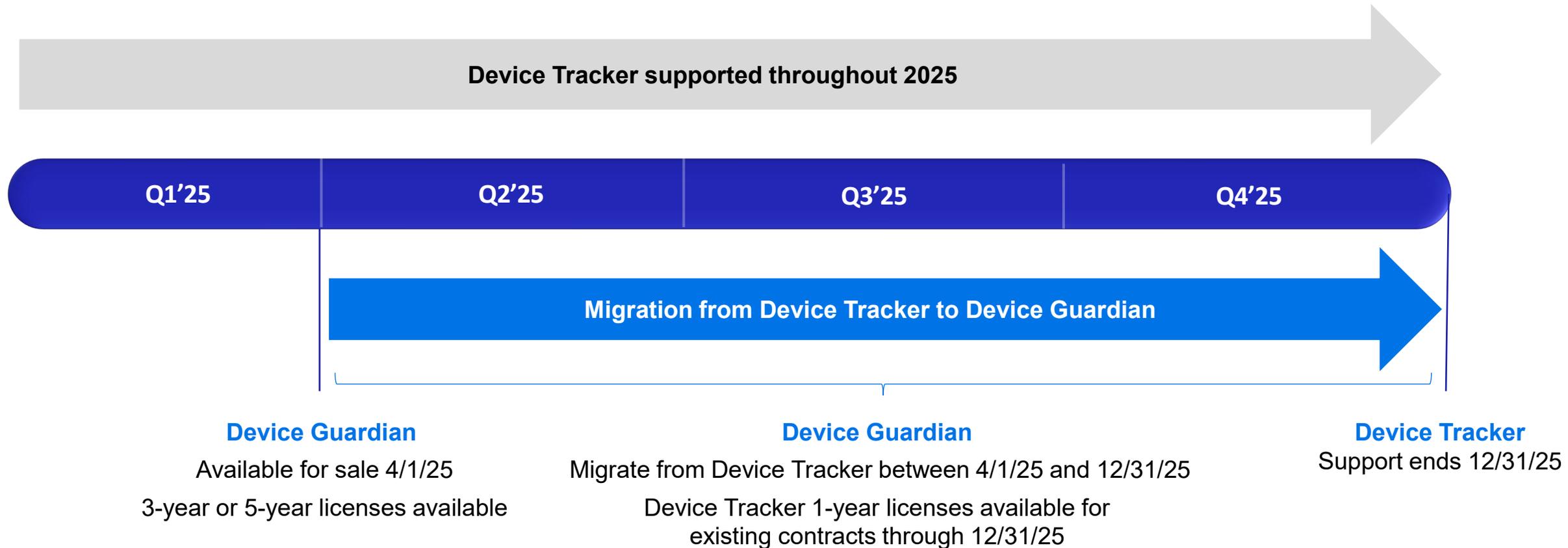
Maximize return on investment

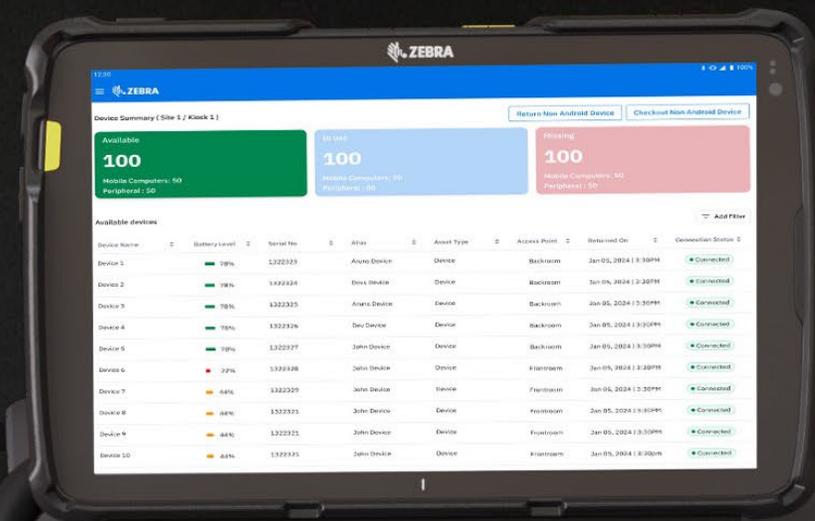
Ensure device availability and utilization to reduce operating costs and protect your hardware investment



Contact your Zebra representative to calculate your annual savings using the Device Guardian ROI calculator

Migration: Device Tracker to Device Guardian





Device Guardian Access Management

Streamline device management and access



Device Guardian Access Management

Optimize operations with local visibility into device status

Go beyond device recovery with Device Guardian Access Management. A physical display gives you visibility into the entire Zebra Guardian solution, making it easy to see device availability, see which worker is using which device and ensure devices are fully charged before placed into service.

- Physical display in kiosk mode provides instant, in-person visibility
- Ensure devices are always charged for the next shift – devices aren't logged off until they are returned to the base (cradle, Guardian Cabinet, etc) for charging
- Flexible solution works with your device storage infrastructure - Guardian cabinets, racks, Zebra cradles
- One web console for the entire Zebra Guardian portfolio of solutions
- Instantly launch Device Guardian with a quick scan of a QR code on the display to recover a missing device



Real-time visibility into the status of your devices

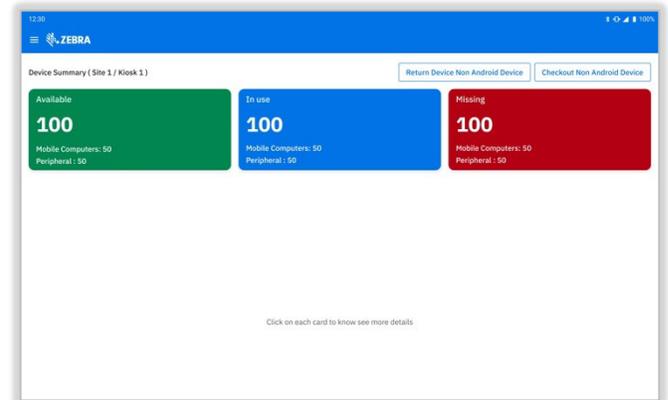
Use the portal to see the real-time status of all devices at any time...

- Device count at-a-glance
- Devices available
- Devices in use
- Devices missing
- Which workers have which devices, improving accountability

So **intuitive** there's virtually no training required

Real-time Dashboard

'Stoplight' style dashboard lets you see in seconds how many devices are in the Guardian Cabinet, charged and ready to use; how many devices have been checked out and are in use in the facility



Missing Devices

Get the information you need to locate missing devices quickly — the name of the current user, the name of the prior user and the reason the device status is missing; launch Device Guardian for recovery

The screenshot shows the 'Missing devices' section of the ZEBRA Real-time Dashboard. It displays a table with columns for Device Name, Battery Level, Serial No., Alias, Asset Type, Last User, Last Device Host, Last Updated, Connection Status, and Action. The table lists several devices with their respective details, including battery levels (e.g., 100%, 52%, 64%) and connection statuses (e.g., Connected, No connection).

Device Name	Battery Level	Serial No.	Alias	Asset Type	Last User	Last Device Host	Last Updated	Connection Status	Action
1302202	100%	1302202	Name	Device	Jane	Backroom	Jan 05, 2024 9:50PM	Connected	
1302204	100%	1302204	Name	Device	Jane	Backroom	Jan 05, 2024 9:50PM	No connection	
1302205	100%	1302205	Name	Device	Tom	Backroom	Jan 05, 2024 9:50PM	No connection	
1302206	100%	1302206	Name	Device	Don	Backroom	Jan 05, 2024 9:50PM	Connected	
1302207	100%	1302207	Name	Device	Alex	Backroom	Jan 05, 2024 9:50PM	Connected	
1302208	52%	1302208	Name	Device	Jan	Frontroom	Jan 05, 2024 9:50PM	Connected	
1302209	64%	1302209	Name	Device	Willy	Frontroom	Jan 05, 2024 9:50PM	Connected	
1302210	64%	1302210	Name	Device	Jack	Frontroom	Jan 05, 2024 9:50PM	Connected	
1302211	64%	1302211	Name	Device	Alan	Area	Jan 05, 2024 9:50PM	Connected	
1302212	64%	1302212	Name	Device	Alan	Frontroom	Jan 05, 2024 9:50PM	Connected	

How will your business benefit from Device Guardian Access Management?



Optimize operations with local visibility

Intuitive kiosk dashboard is always visible to employees and managers



Improve workflow efficiencies

Workers can be sure they take a device that is fully charged and ready to last a full shift



Reduce device damage

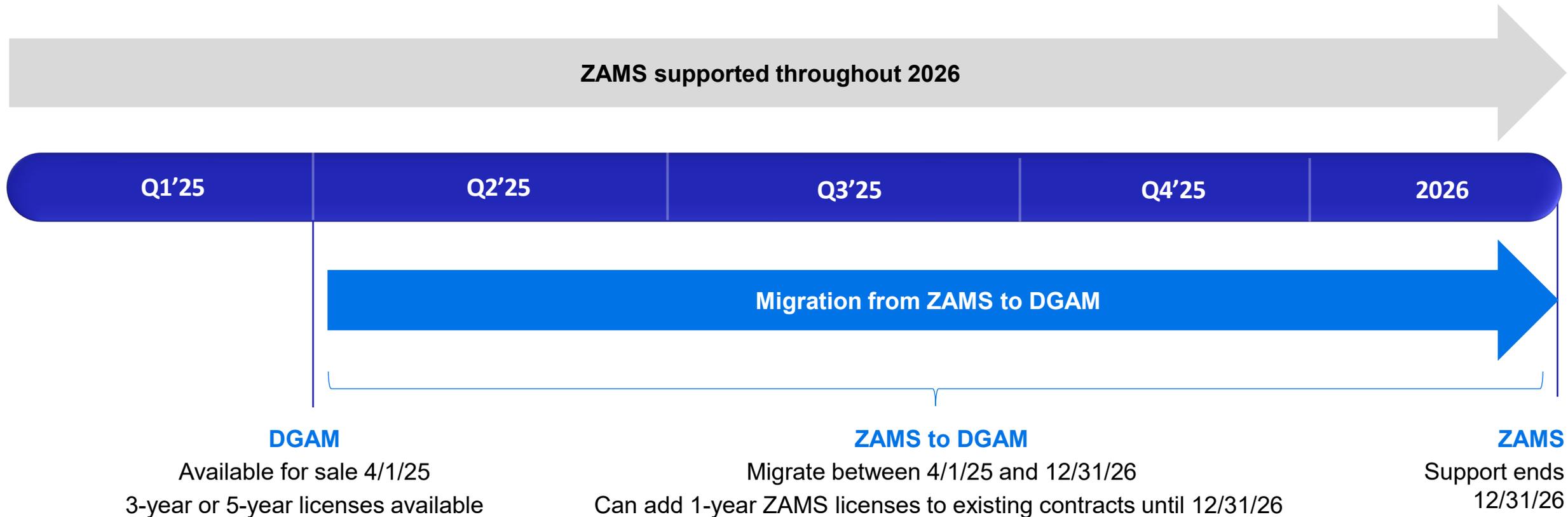
Improve employee accountability at the site level — know who checked out which device, and when



Recover missing devices faster

Instantly ID missing devices and launch Device Guardian to find them

Migration: Zebra Access Management System (ZAMS) to Device Guardian Access Management (DGAM)





Guardian Cabinets

Create the perfect mobile device access solution for your business

Guardian Cabinets

Create the perfect mobile device access solution for your business

Every day, you need to know where your devices are — and ensure they are fully charged, ready to go at the start of each shift

With Guardian Cabinets, you can easily and securely store, charge and handle check-out and check-in of your Zebra mobile computers, tablets and more.

- Adaptable portfolio of end-to-end device storage solutions for any sized business
- Customizable for your industry, environment and product mixes
- Charge and monitor battery life
- Wi-Fi and cellular friendly
- Prevent device damage and loss
- Regulate device access by authorized personnel
- Fully tested and Zebra-certified as a total solution for all your Zebra products



Identity
Guardian

Device
Guardian

Device
Guardian
Access
Management

Guardian
Cabinets

A complete portfolio to address everyday device management in any size business



Cabinets

- Wide portfolio to meet varying application and environmental needs
- Customizable to hold numerous combinations of devices in various arrangements



Cradle Locks

- Add a layer of physical security in Guardian Cabinets and racks
- Mechanical locks physically prevent the removal of devices by any unauthorized personnel



Open Racks

- Single or double sided to meet your capacity needs
- Choice of wheels or feet
- Integrated security options, including cradle locks with PIN access

Guardian Cabinet features

All the features you need to address everyday device access management in any size business

Modern look that's at home everywhere — from public-facing to industrial spaces

5 linkable sizes for any size deployment — accommodates 20, 30, 40, 50 or 100 devices

Grab and go — rapid access to devices that are fully charged and ready to use

Rugged materials ensure durability — even in high traffic environments

Elimination of cooling fans reduces costs and your carbon footprint

Locking doors for added security — and added peace of mind

RF friendly design and materials — devices won't lose wireless connections in the cabinet

Space-saving bi-fold doors fit in the tightest spaces for deployment flexibility

Optional cradle locks reduce theft — available for Zebra's TC2x, TC5x and TC7x mobile computers



Guardian Cabinets deliver a fast payback

Large Business Scenario:



Refer to the Guardian Cabinets ROI Infographic to see similar savings for small and medium-sized businesses



The Guardian Cabinet pays for itself over 11x in the first year — and over 52x in five years.

Solution Cost

\$57,000

Net First Year Savings

\$480,990

Annual Savings

\$597,520 — Automation of device access
 \$34,320 — Loss prevention
 \$9,480 — Damage prevention

\$641,320

5-year Savings

\$2,989,270

How will your business benefit from Guardian Cabinets?



Prevent loss and protect your investment

End-to-end traceability for secure device storage



Optimize worker time

Ensure devices are organized, charged and ready for use at the start of the shift



Maximize floorspace

Double-density stadium shelving holds a greater number of devices in the same cabinet footprint, and wall mounting saves floorspace



Minimize maintenance and operating costs

Durable and robust, these cabinets are engineered with industry experience and built to last for years



Improve workflow efficiencies

Grant rapid and easy access to devices for multiple users simultaneously





Zebra DNA



Empower Your workforce and drive results

...with the hassle-free, simple-to-use embedded intelligence inside every Zebra device

Get the simplicity you need with Zebra DNA, the software powering Zebra's devices that empowers your workforce with continuous visibility across your entire operation, provides optimal uptime and ensures fast adaptability to changing workflows when needed.

Continuous Operation Visibility



Provides the insight and foresight you need to enhance your processes, preempt problems, increase productivity and improve your ROI.

Optimal Uptime



Ensure with simplified deployment and management, together with enterprise-grade control and security tools that reduce delays and downtime.

Flexible Workflow Performance



Adapt workflows to your evolving needs and swiftly respond to changing market dynamics, regulatory demands, internal processes or emergencies.

Just a few of Zebra's DNA tools that deliver Unmatched value



LifeGuard™ for Android™

Get a lifetime security guard for Zebra rugged Android devices

Keep your devices secure every minute of every shift

Put your security updates on autopilot. Auto Update will automatically and invisibly install updates over-the-air (OTA) — no actions required by IT or mobile users. Users can delay the update until a convenient time if needed.



Enterprise Home Screen

Control feature and application access

Improve workforce productivity only authorized features and applications will be visible and available to workers

Create a single-purpose device with Kiosk Mode — Ideal for workers that only need to access a single application.

Easy to set up and secure — no developer or programming required. And Secure mode prevents tech-savvy users from overriding restrictions



Zebra DNA Cloud

One simple interface to manage all of your Zebra DNA tools

Easy to use — intuitive interface designed for technical and non-technical users

Centralized management — remotely set up, configure and update all your Zebra DNA tools

Flexible — use as a standalone application or integrate with your existing Enterprise Mobility Management (EMM) or Enterprise Device Management (EDM) system

Zebra DNA for Mobile Computers

Set Up. Secure. Manage. Optimize.

Set Up



DataWedge: Easily capture data and send to your host applications without programming



Enterprise Mobility Development Toolkit (EMDK): Develop powerful customized enterprise applications with less time and effort



Enterprise Browser: Create cost-effective web-based applications optimized to work on Zebra Android devices



StageNow: Stage a handful or thousands of devices with the scan of a barcode or tap of an NFC tag



Zebra DNA Cloud: Intuitive unified interface to easily deploy, manage and support your Zebra DNA tools



Zebra Zero Touch: Helps automate the setup of devices into your third-party management system

Secure and Manage



Device Diagnostic Tool: Instantly test and diagnose hardware operability to determine system health



GMS Restricted Mode: Gain data control and enhance security by controlling Google Mobile Services



LifeGuard for Android: Protect devices from potential threats and access new features with regular updates and patches



Device Tracker: Easily locate and recover missing devices to protect your investment.



Mobility Extensions: A layer of enterprise features that are not available in off the shelf Android



Wireless Fusion: Enables seamless connectivity, and enhances the mobile operation and efficiency of Wi-Fi™



Enterprise Home Screen: Control the user interface, including access to applications and settings



RxLogger: Capture system and application logs to identify problems and avoid sending no-failure found devices for repair



Identity Guardian: Simple, secure and personalized access to shared devices with multifactor biometric facial login



OEM Config: Day one support for all device features in Mobility Extensions (Mx) via your EMM



Wireless Insights: Real-time visibility of wireless network performance to troubleshoot and optimize connectivity

Optimize



TekTerm: Adapt your devices to your workflows by easily migrating Windows CE applications to Android



All Touch Terminal Emulation: Drive better productivity by converting legacy green screens to a modern, all touch UI



OCR Wedge: Boost productivity with optical character recognition that works on TIN, VIN, SSN licenses, plates and more



Wireless Analyzer: Comprehensive network diagnostics for rapid identification and resolution of connectivity issues



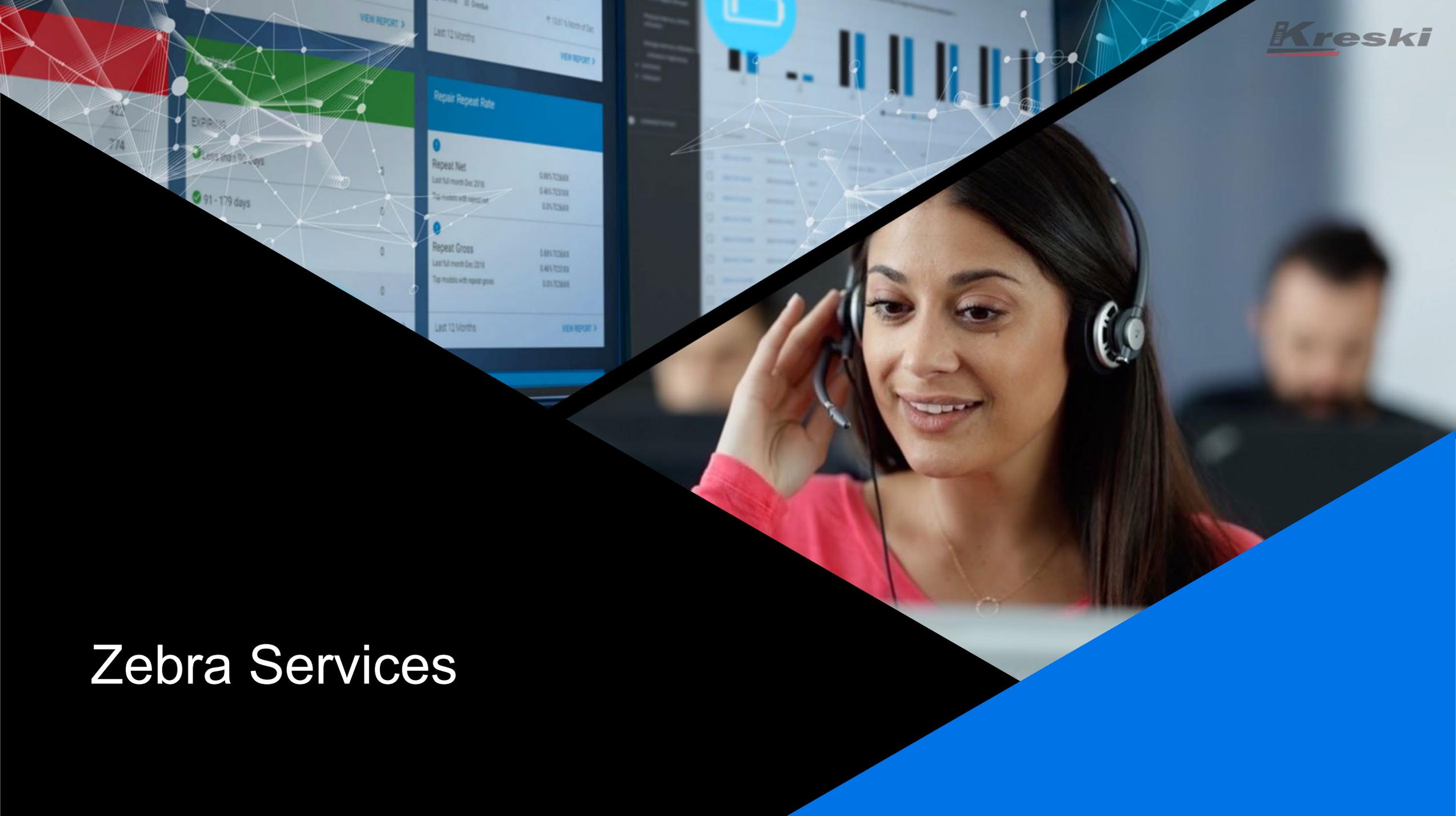
Device Central: Simplified pairing, unpairing, locating and troubleshooting with Bluetooth® accessories



NG SimulScan: Fast and accurate data capture from multiple barcodes. Capture text, signature, images and documents



Enterprise Keyboard: Customized keys and layouts for specific workflows



Zebra Services

Zebra OneCare Technical and Software Support Service (TSS)

Extend technical support and access to software updates for your Zebra Guardian solutions — well beyond warranty



Get access to the latest software updates and security patches

Ensure your Zebra Guardian software is always up to date for peak performance and security protection; avoid costly downtime due to outdated software



Get the help you need with expert level technical service

Get priority access to the most qualified technical expertise; Mon-Fri 8x5 local time live agent technical support



24x7 self-help assistance via Zebra's online portal

Take advantage of our self-service tools; easily submit requests online; tap into Zebra's digital support community for common questions

Take your fleet understanding beyond the site level with Zebra VisibilityIQ Foresight™

While the Zebra Guardian portfolio helps you reduce device loss, control access and manage device status at the site level, Zebra VisibilityIQ Foresight enables the next stage of visibility – with actionable insights into device performance and health across your entire fleet



Get a centralized view of device health and utilization insights across your fleet



Empower informed decisions with historical trends and predictive analytics



Monitor device repair cases and status



Keep teams connected with threshold notifications



Avoid workflow disruptions by discovering roots of issues



Thank you!

The Kreski logo, featuring the word "Kreski" in a bold, black, sans-serif font with a red underline under the "K".

Kreski

Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl