

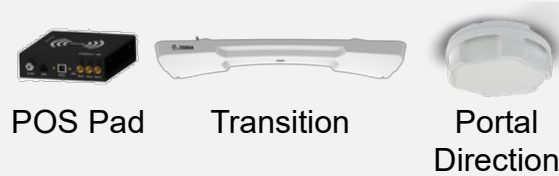


Driving Industrial Transformation with Secure RFID Solutions

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We see 3 distinct reading types unfolding...



	Presence
Zebra Provides	Standard Devices
Tagline	“Count my stuff!”
Software Needs	Firmware

Control Points
Purpose-built Package
“What’s happening to my stuff?”
On-Device Logic

Automated Sensing
Network of Control Points
“Where is my stuff?”
Multi-Device Logic with API Layer



Technical/Product Security



Operating System (OS) security is the number one enterprise mobile device challenge



Breaches are very costly

57% of breaches could have been prevented with a patch¹

Cybercrime cost U.S. companies \$21 billion²

More than 50% of breaches are undetected for multiple months³



Total Cost of Ownership (TCO) is taking a beating

Devices outlast typical three-year security lifecycles...

...leaving devices, their data and the networks they connect to vulnerable



OS transitions are challenging

No support is offered while transitioning to a new OS version

Incompatibilities in line-of-business apps can impact operations and device ROI

^{1,2} Workflow: "How to close the patch gap" <https://workflow.servicenow.com/it-transformation/ponemon-vulnerability-response-study/>, April 5, 2018

³ Gartner Research: Sam Evans, Tony Harvey, Neil MacDonald "Securing End-of-Support Production Systems" <https://www.gartner.com/en/documents/3978714/securing-end-of-support-production-systems>, December 24, 2019



LifeGuard delivers:



Timely updates

Aggressive security/patch updates for Android for up to 10 years



Update options

Three flexible ways to update: fully automatic, full control and manual



Migration support

A full year to migrate when a new version of Android is released



One simple file*

Single file simplicity and smaller files with Dynamic Packaging



Silent updates*

Update invisibly in the background with Google A/B streaming support



Update status visibility

Reports to easily manage updates

* Available for Android 11+

Zebra EU Radio Equipment Directive (RED) Compliance

What is the EU Radio Equipment Directive (RED)?

- A **mandatory EU regulation** governing the safety, health, and cybersecurity of radio equipment.
- Enforced by the **European Union** to ensure that devices:
 - Protect user privacy and data.
 - Do not harm the network or interfere with other equipment.
- Applicable to **all internet-connected radio equipment** sold in the EU, such as Wi-Fi and Bluetooth-enabled devices.

Why EU RED Compliance Matters

- Compliance with BS EN 18031-1 gives manufacturers a “**presumption of conformity**”:
- Ensures products meet RED requirements.
- Allows placement of the **CE mark** for sale in the EU market.

How Does BS EN 18031-1 Fit In?

- BS EN 18031-1 is a **technical standard** created to support compliance with the RED.
- Provides a **cybersecurity checklist** with specific, testable engineering requirements.
- Translates the RED’s broad legal goals into actionable rules for manufacturers.

Zebra EU Radio Equipment Direction (RED) Compliance

What's Changing?

Wi-Fi & IoT Configurations

- Access now requires an authorization password to view, modify, or manage profiles.

Bluetooth Pairing

- Enhanced security with “User Authorization” mode, requires a physical trigger press during pairing.

Firmware Updates & Certificates:

- Updates and certificate management are now password-protected to prevent unauthorized changes.

Default Password Change Required

- Out-of-the-box password must be updated before accessing sensitive settings.

Session Timeouts

- Admin sessions automatically expire after **10 minutes of inactivity**.

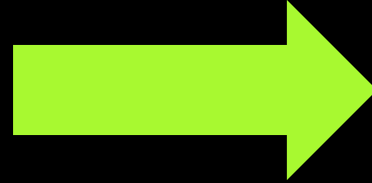
Brute Force Protection

- After 5 failed login attempts, delays are added to block unauthorized access.

Security in Retail



LOSS PREVENTION



LOSS DETECTION



Point-of-Sale is on the Rise

 #1 for RFID readers in the world



**DS82 SERIES
HANDHELD SCANNER WITH RFID**



**MP72
MULTI-PLANE SCANNER
WITH RFID**



**FXP20
PAD RFID READER**

Industrial Security





T&L, WASTE, PORT, & YARD MANAGEMENT

Up and Coming Use Cases

Vehicle / people access control

No-go zone enforcement

Tool access / usage

Critical goods location (in and out of yard)

Over-the-road RTI / shipment tracking & traceability

Shipment load validation

T&L, WASTE, PORT, & YARD MANAGEMENT



Field / Mission Supply





MILITARY, POLICE, FIRE, & EMS SUPPLY

Armory tracking

Munitions & tactical supply Tracking

Essential Loadout tracking & Validation

Maintenance, repair, and operations/overhaul

Vehicle / Fleet Maintenance & Tracking

Base / HQ Access Control

MILITARY, POLICE, FIRE, & EMS SUPPLY



Thank you!

