

Security Fabric

Access Management & Data Security for Automated Material Handling Systems

INFO SHEET

PROTECT EVERY INTERACTION

Security Fabric is an access management and information data security solution that provides tamperproof, non-intrusive protection for Dematic automated material handling systems. Security Fabric provides comprehensive protection for PLCs, machine controls, devices, workstations, and execution software layers. It creates the essential trusted foundation for every interaction (local or remote) whether human-to-machine, machine-to-machine, or edge-to-cloud.

Security Fabric protects every element — from industrial IoT devices to vulnerable legacy systems — while enabling dynamic data security. It provides identity management, single sign-on, and access control with in-field enforcement across the automated material handling system.

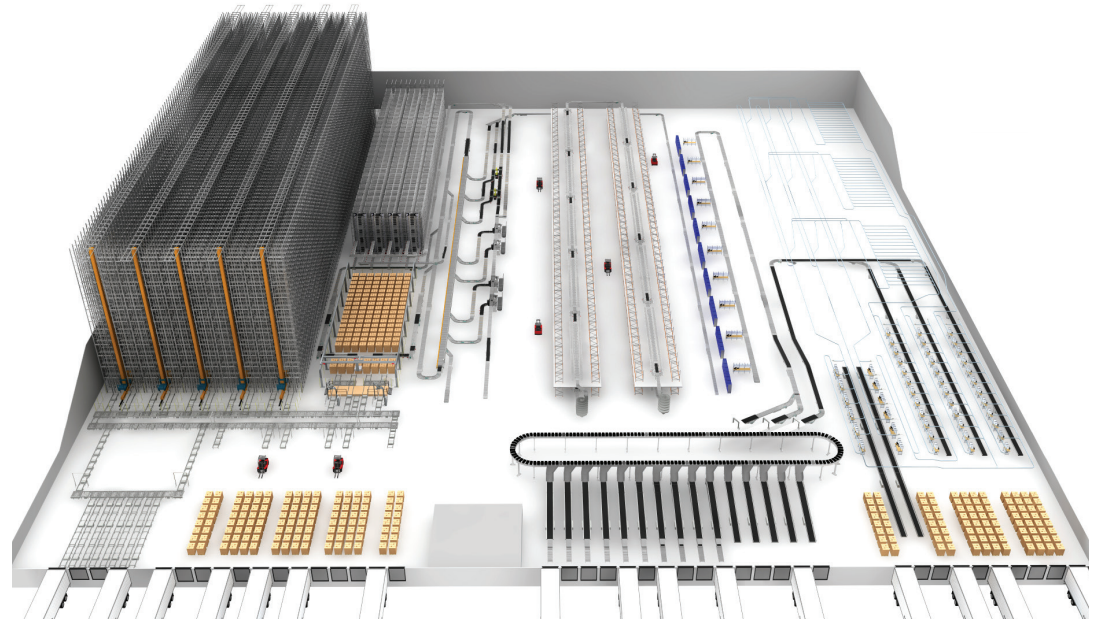
The solution enforces zero-trust access to secure operations and data, simply and universally. This includes overall system visibility and managed access. It adjusts dynamically based on the identity of users, machines, and applications to make authorized interactions convenient and more secure.

This Dematic security protection solution is configured with software provided by Dematic partner Xage, a security solutions company. It is integrated by Dematic for automated material handling systems.



BENEFITS

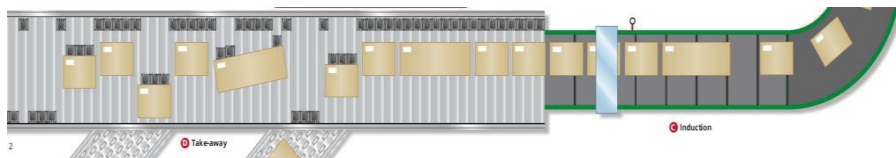
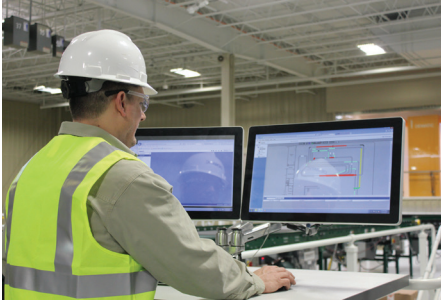
- Dynamic data security for automated intralogistics systems
- Tamper-proof “fabric” for authentication, authorization, trust
- Security at scale
- Secure enforcement, no single point to hack
- Essential trusted foundation for interactions
- Zero trust identity and access control
- Blockchain protected
- Safe network-layer traversal for remote access
- Multi-party, multi-location secure data sharing
- Continuous operation if center dis-



COMPREHENSIVE PROTECTION

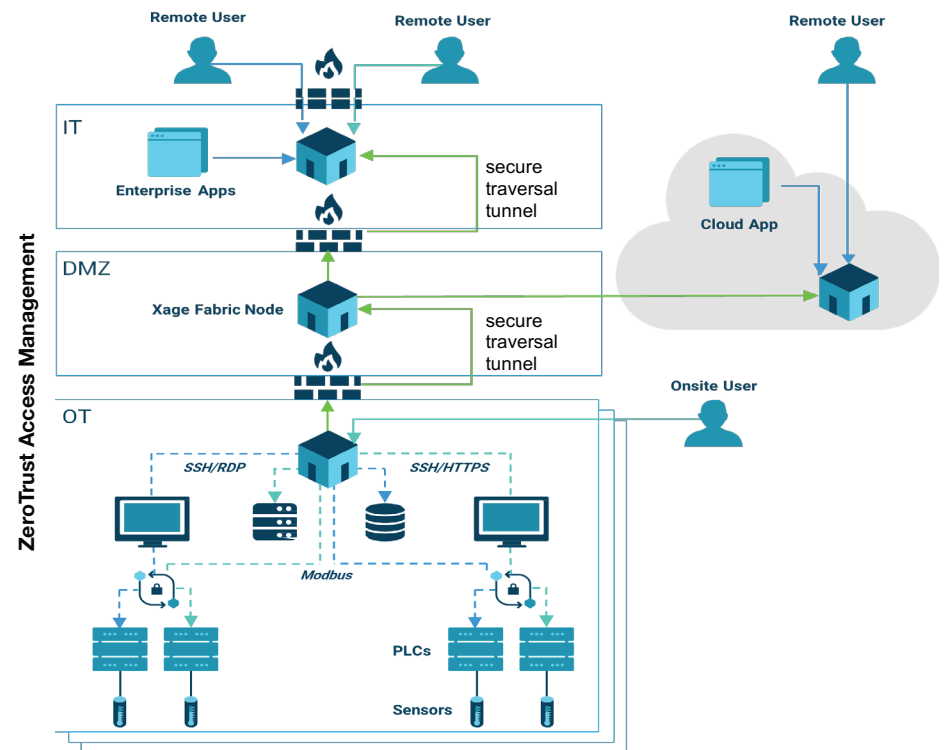
Security Fabric provides comprehensive protection for all layers of controls and software in the automated material handling system:

- PLCs
- FlexSort controller
- Machine controls for AS/RSs, AGVs, shuttles
- Devices (scanners, sensors, etc.)
- Workstation interfaces (decant, goods-to-person, packing)
- Warehouse Execution System software
- Host interface



CONFIGURATION

Security Fabric is configured with nodes and enforcement points, shown as Xage Node and XEP on the illustration below. Enforcement points consist of an electronic control device that acts as a data filter. Enforcement points connect to the PLCs and devices in the automated material handling system. Xage Nodes act as authentication portals that enable secure access and data/file transfer across the operation.



SCALE

Provide continuous, highly available operational security that grows stronger as the system scales with identities and access policies, centralized management, distributed enforcement, and tamper-proofing with no single point to hack.



PROTECT EVERY INTERACTION

Move beyond inflexible, easily-bypassed network-only protection, firewalls & isolation. Zero-trust secures unmanaged identities, unprotected systems and access methods.



SECURE IIoT

Easily integrate new and legacy devices, apps and control systems into the industrial IoT. Move from closed architectures to flexible, easily managed OT- IT-cloud operations.



REMOTE ACCESS

Delivers operation-wide single sign-on and access that remains secure even in the event of network compromise. Remote access includes operational privileges managed via a convenient web interface, so technicians, vendors, and apps can be granted immediate, controlled access as needed.



LEGACY SYSTEMS

Legacy, industrial IoT systems must work together safely. A flexible security approach is required to extend the life of legacy assets, protect from cyber-risk, and enable full participation in integrated digital operations.



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► For information about modernizing or upgrading your operations, please contact us.

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