



New Products

Lean Managed Switches



Lean Managed Switches

Your Advantages:

- **Easy** troubleshooting in networks with little IT knowledge
- 8 / 16 Port with **1000 MBit/s** in a small housing
- Port specific Authentication of the network participants
- Network segmentation based on IEEE 802.1Q
- PoE+ technology at 24 V supply voltage
- Network redundancy (ERPS) with two rings per switches
- **Economical** managed switch with **intuitive** handling



Article number:

0852-1812

0852-1813

0852-1816

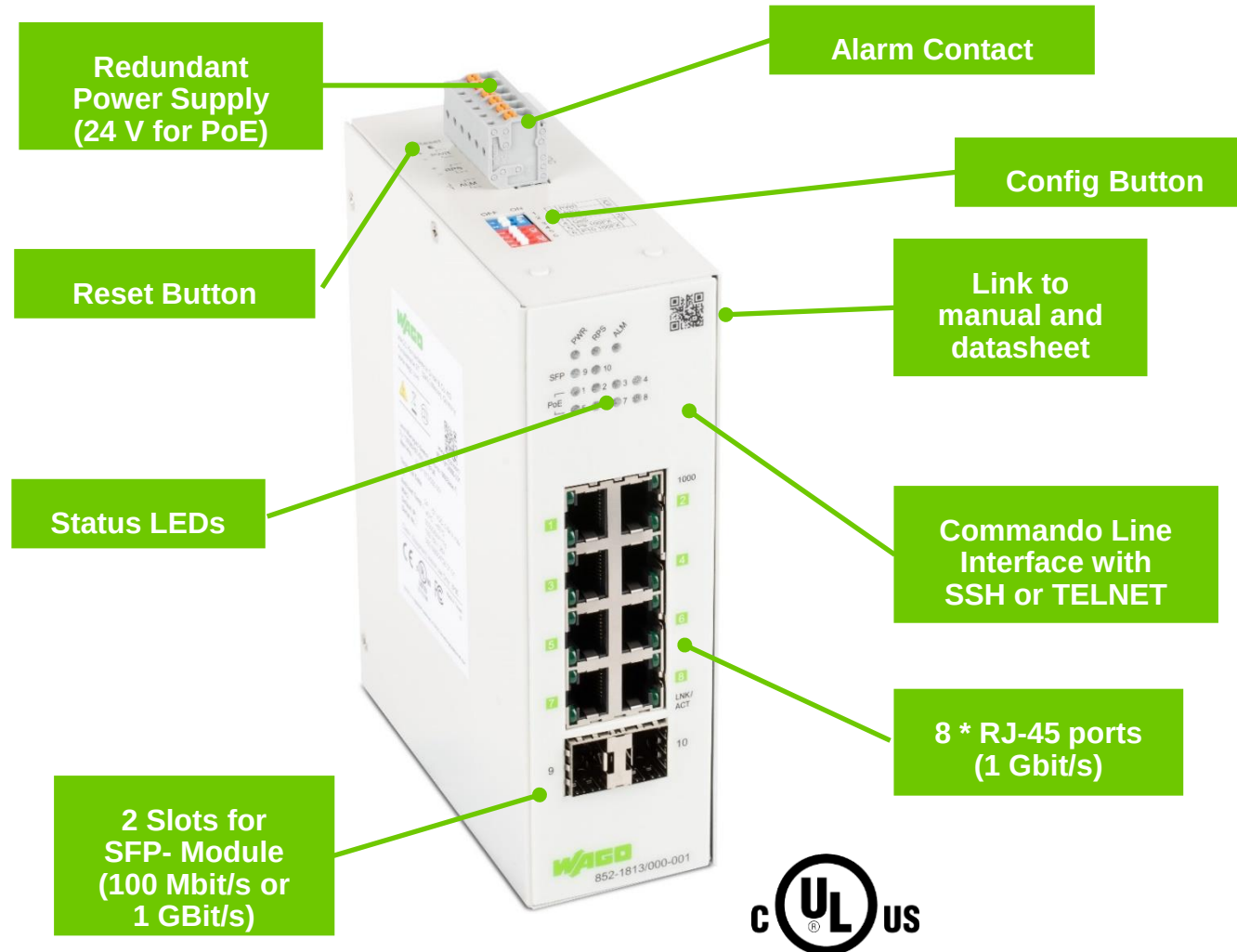
0852-1813/000-001



Availability:



Lean Managed Switches



Your Advantages:

- Intuitive handling during configuration and life cycle
- Easy troubleshooting in networks
- Increase network security and availability with selected features
- Economical variant of a managed switch

Lean Managed Switches



Your Advantages:

- Intuitive handling during installation
- Robust mounting on Din-Rail

Lean Managed Switches

View



852-1812



852-1813



852-1813/000-001

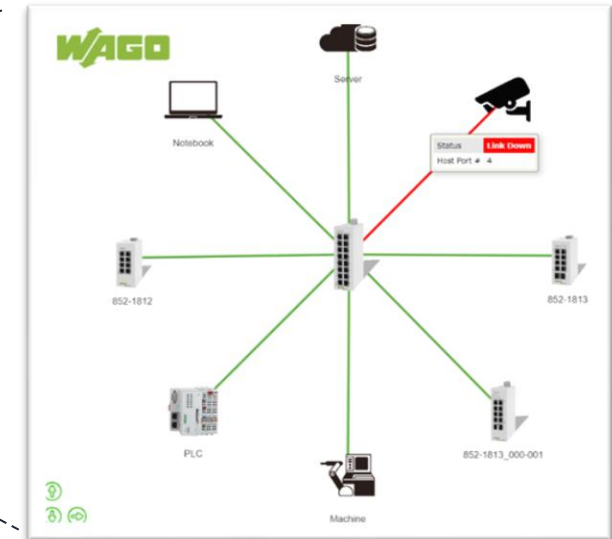
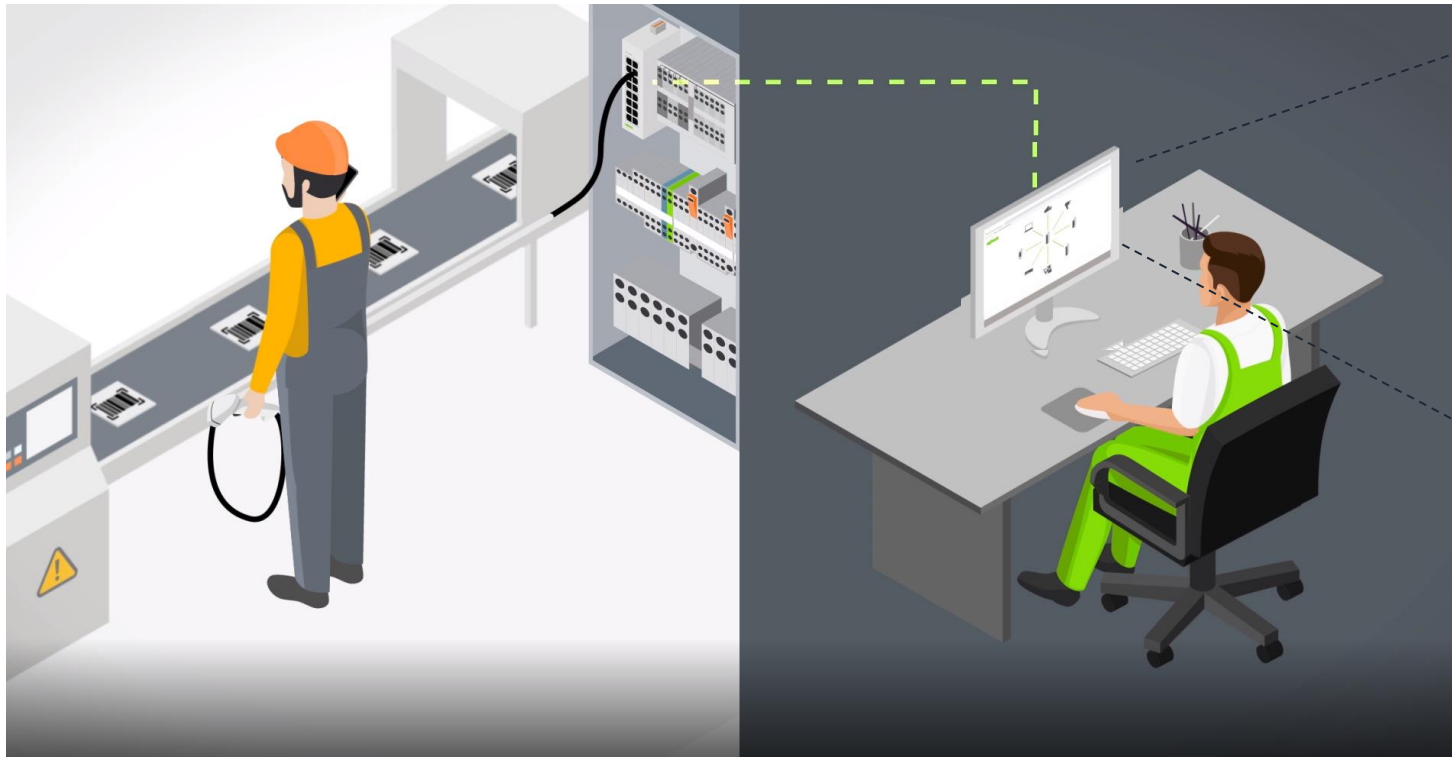


852-1816

	852-1812	852-1813	852-1813/000-001	852-1816
Copper ports	8 x 10/100/1000	8 x 10/100/1000	8 x 10/100/1000	16 x 10/100/1000
PoE+ Ports	-	-	8 (up to 240 W)	-
SFP-Slot	✓	2 x 100 or 1000	2 x 100 or 1000	-
Redundant power supply	✓	✓	✓	✓
Alarm contact	✓	✓	✓	✓
Dimensions (mm)	50 x 116 x 100	50 x 116 x 100	50 x 120 x 160	50 x 120 x 160
Ambient temperature	-40 ... +60 °C	-40 ... +60 °C	-40 ... +60 °C	-40 ... +60 °C
Approvals	CE, UL61010	CE, UL61010	CE, UL61010	CE, UL61010
Topology Map / Dashboard	✓	✓	✓	✓

Lean Managed Switches

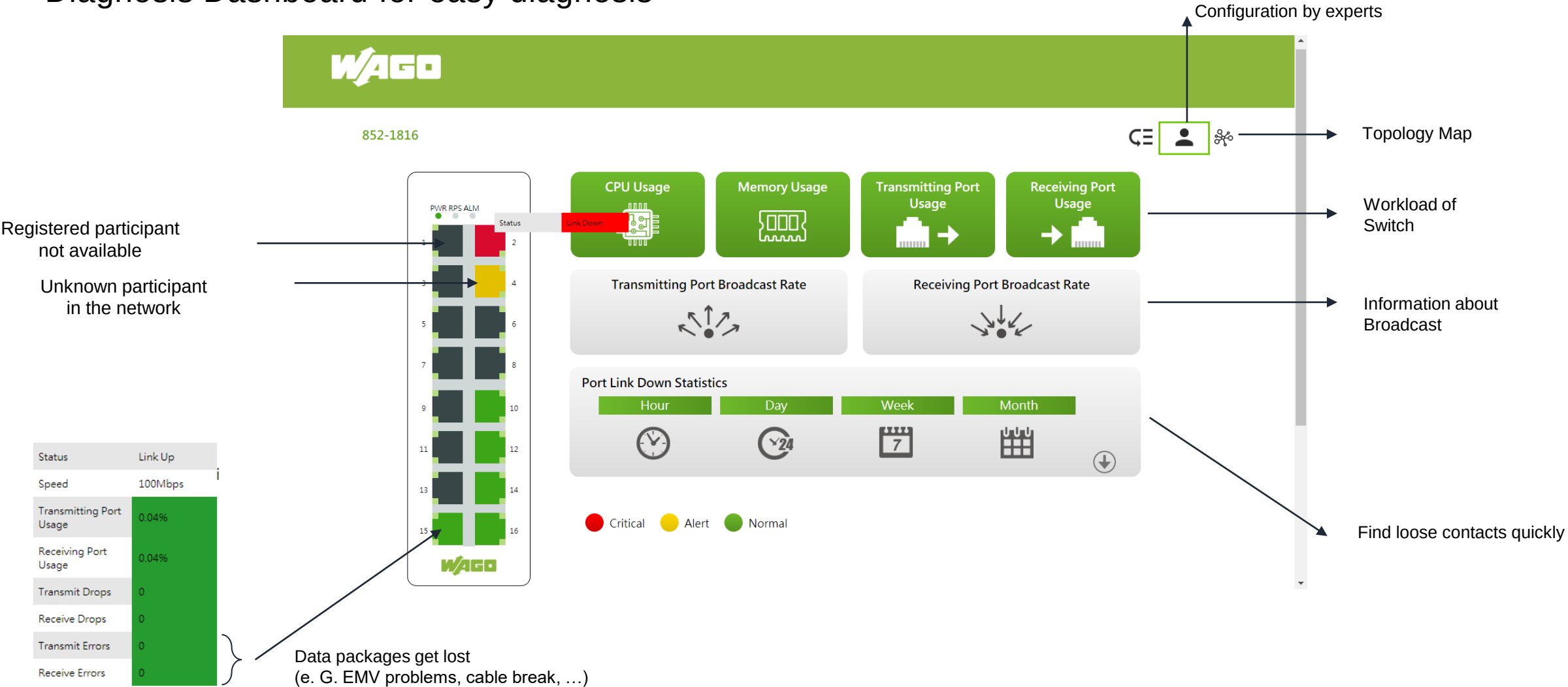
Use Case: Diagnostics - Finding loose contact



Video: [LINK](#)

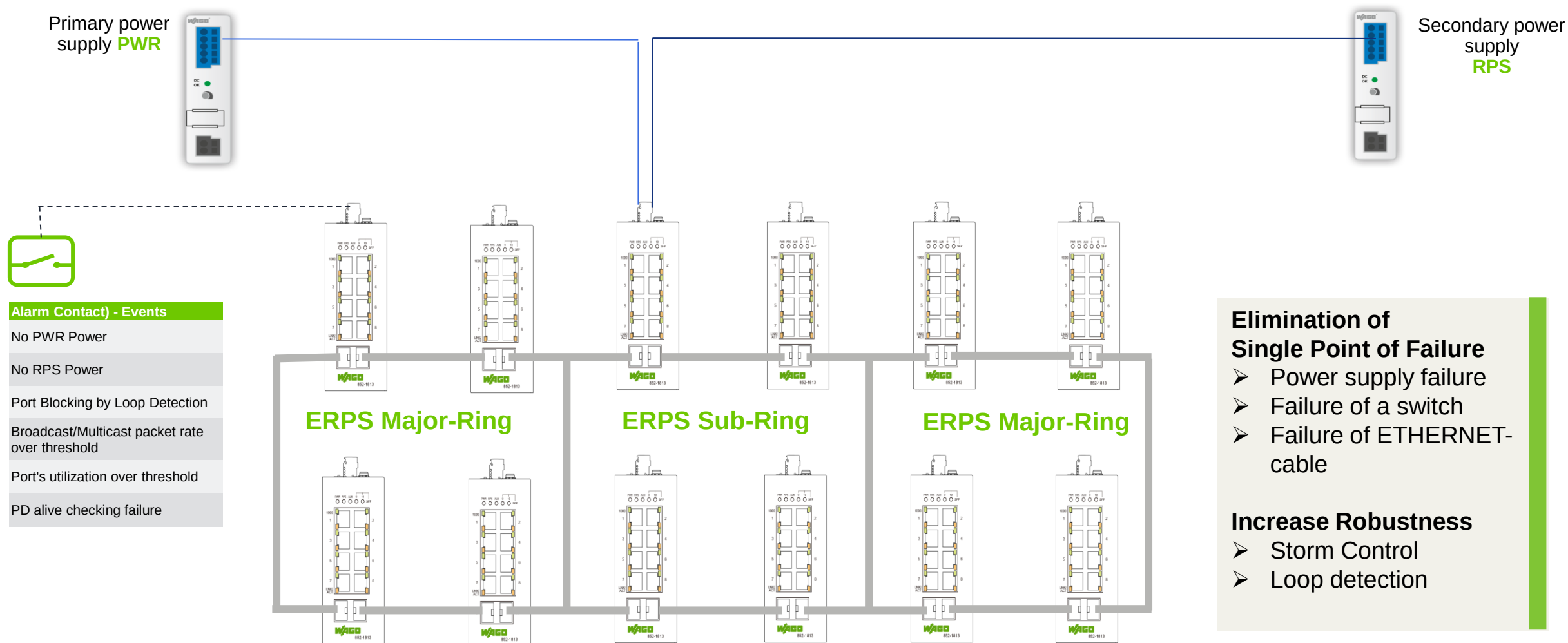
Lean Managed Switches

Diagnosis Dashboard for easy diagnosis



Lean Managed Switches

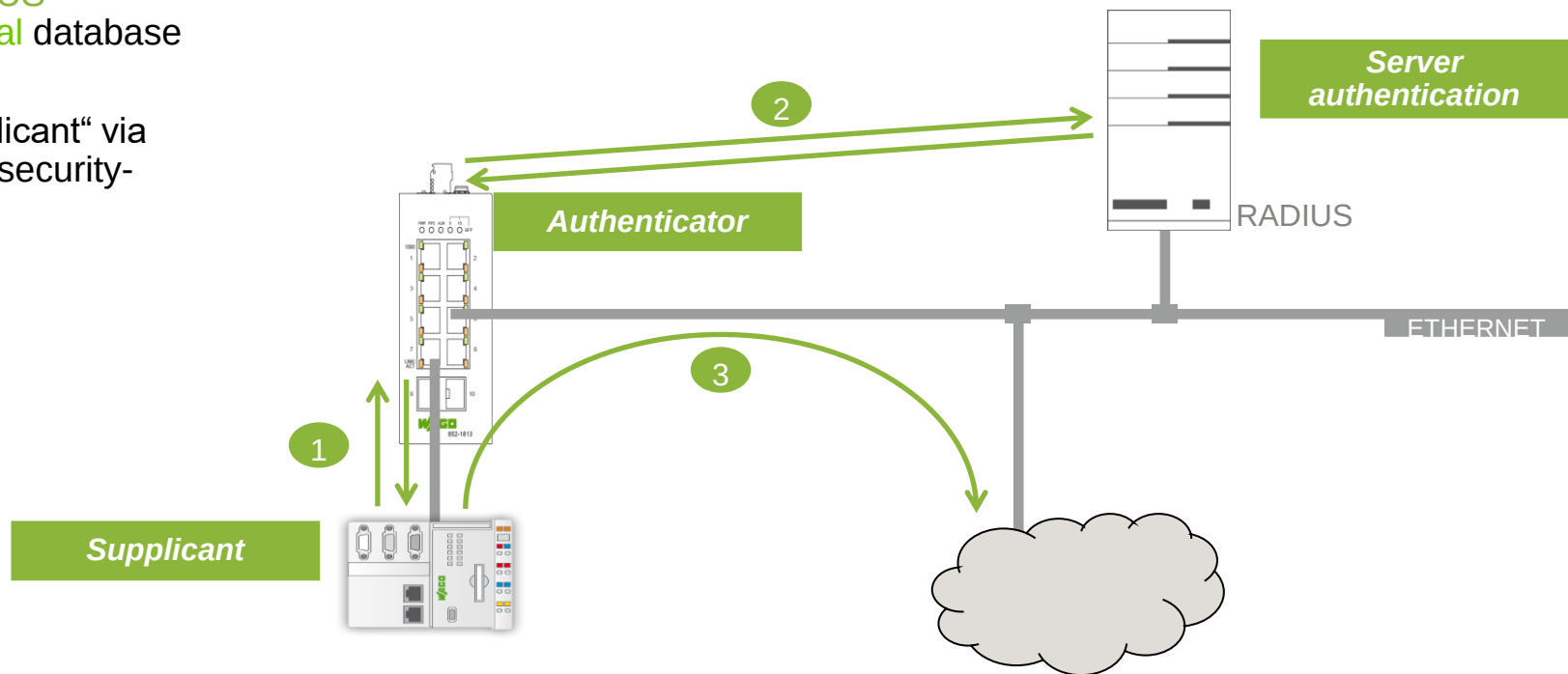
Use Case: Availability in a network



Lean Managed Switches

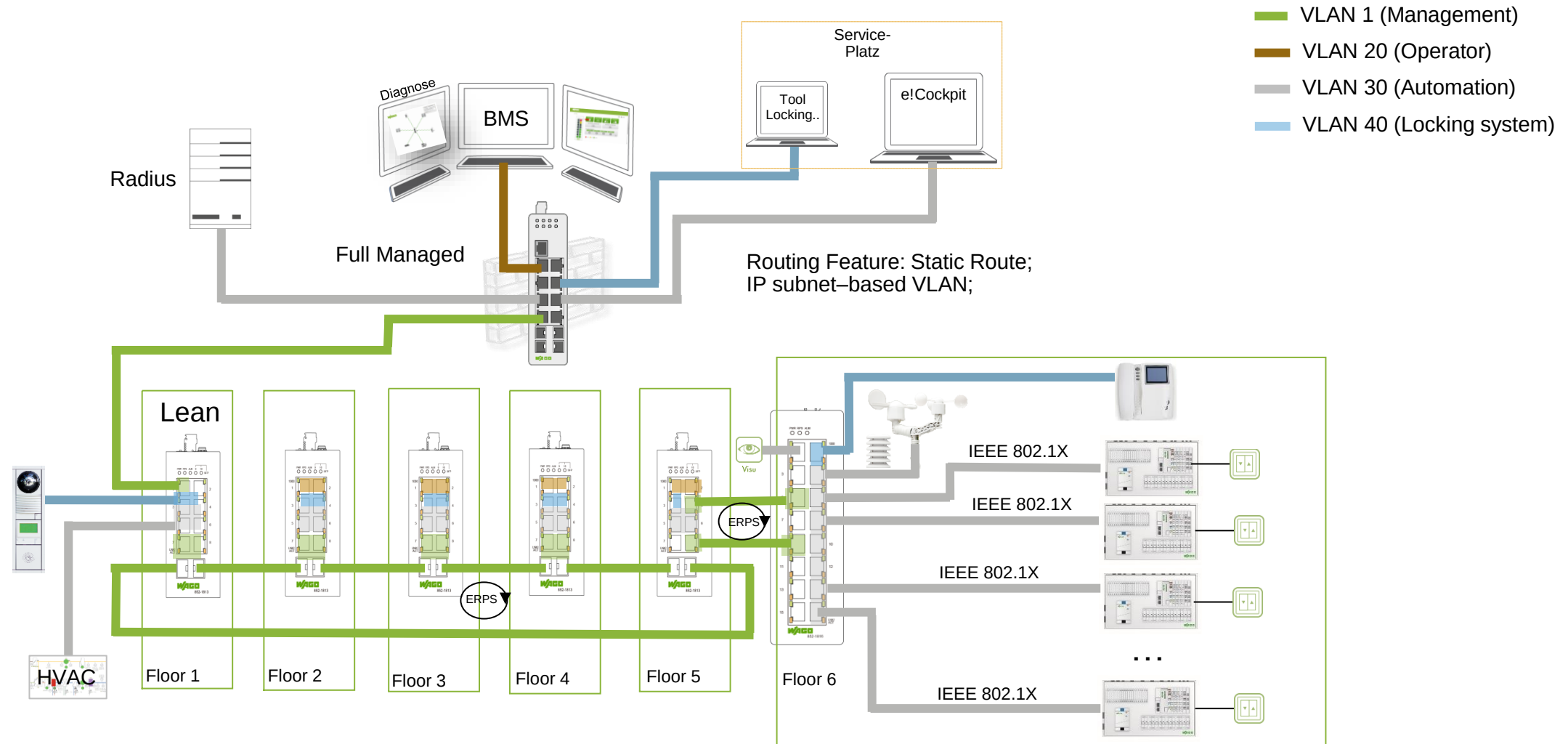
Use Case: Security - Authentication (IEEE 802.1X) via RADIUS-Server

- Profile of the Switch „*Authenticator*“
- Authentication activatable per port
 - Authentication of the „Supplicant“ via the „Authenticator“ at the „*RADIUS authentication server*“ or *local* database on the switch
 - Authentication of the „Supplicant“ via username and password or security-certificate



Lean Managed Switches

Use Case: Application in Building Automation



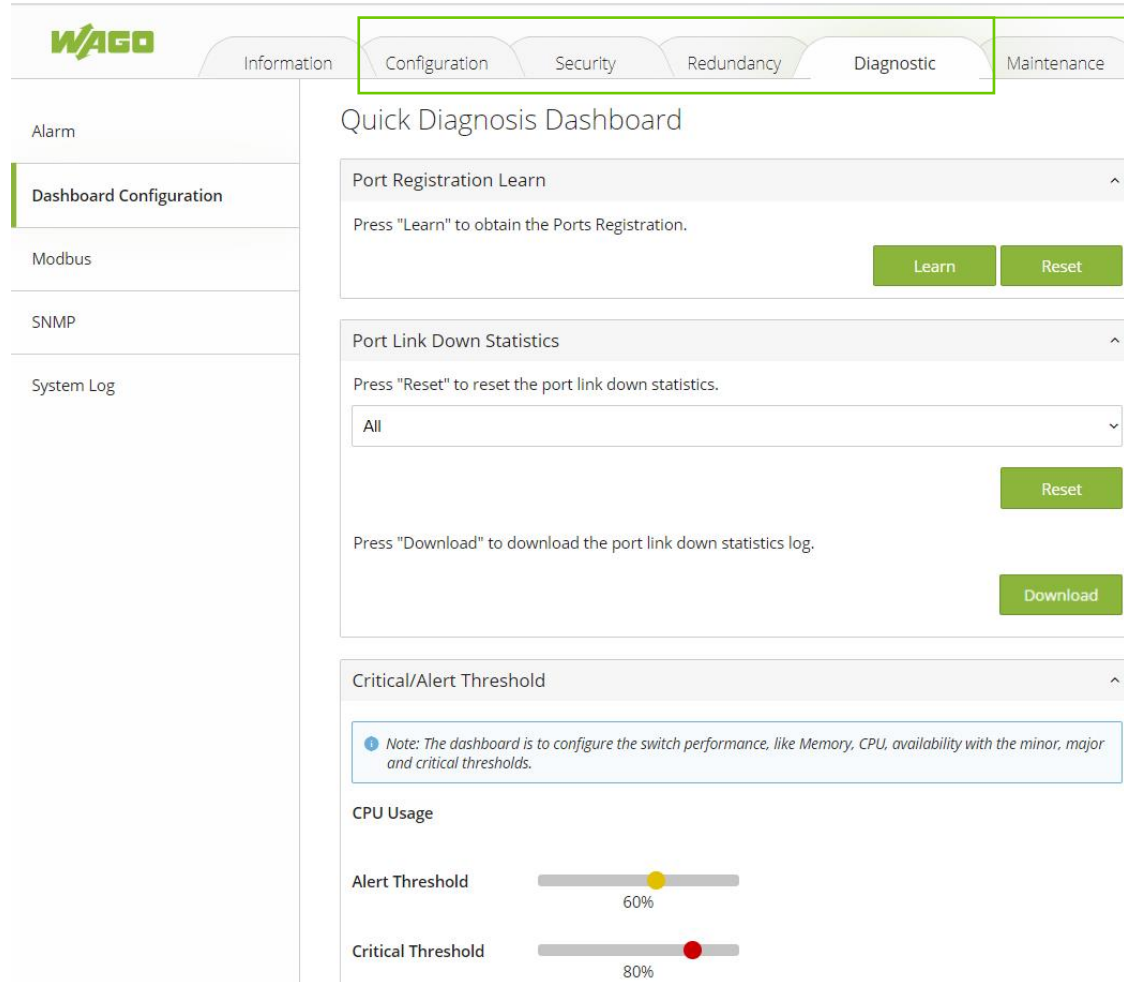
Lean Managed Switches

Features

System Configuration	System Information (FW-Version, MAC, Network Details,...)	General Settings (Static IP or DHCP, Management VLAN, ...)	User Account (read only, admin, ...)	System Log (System information in text entries)	SNTP (Network Time Protocol (NTP) for synchronizing the clocks in a network)	
Port Configuration	Configuration (Port state, Speed, Duplex)	Port Mirror (e.g Troubleshooting with Wireshark)	Port Priority (high [PLC], medium, low [HD camera])	PoE+-Settings	Port ON / Off	
Redandancy / Availability	Loop Detection (Avoid network storms)	STP / RSTP (Rapid Spanning Tree Protocol (RSTP) for meshed and ring networks)	ERPS – Ring (ETHERNET Ring Protection Switching, max. 2 rings per switch, max. 16 switches per ring, switching time < 800 ms)	Redundant power supply	Storm Control (Limit data packets)	
Diagnostic	Alarm Information	Utilization	Utilization Threshold	Port Statistics	Modbus-Register (Issue diagnosis with the PLC; e.g. Port down)	Status LED (Status visible on the control cabinet)
Security	Firewall (ACL) Allow a range of MAC or IP addresses. (max. 32 entries)	Authentifizierung (IEEE802.1X / RADIUS)	Port Security (e.g. one MAC per Port)	802.1Q VLAN (max. 5 VLANs)	Service Control (Disable services that are not needed.)	
SNMPv1/v2c/v3	Configuration	Community Name	Trap Receiver	Trap Events		
Maintenance	Backup and restore (Save and load configuration files. customizable with text editor)	Reboot	Factory default			
Device Management	Neighbour detection (LLDP)	ONVIF (Management of IP cameras)	Manual Registration (Teaching devices via the MAC)			
Topology Map / Dashboard	Topology Map	Dashboard				

WAGO

Intuitive configuration

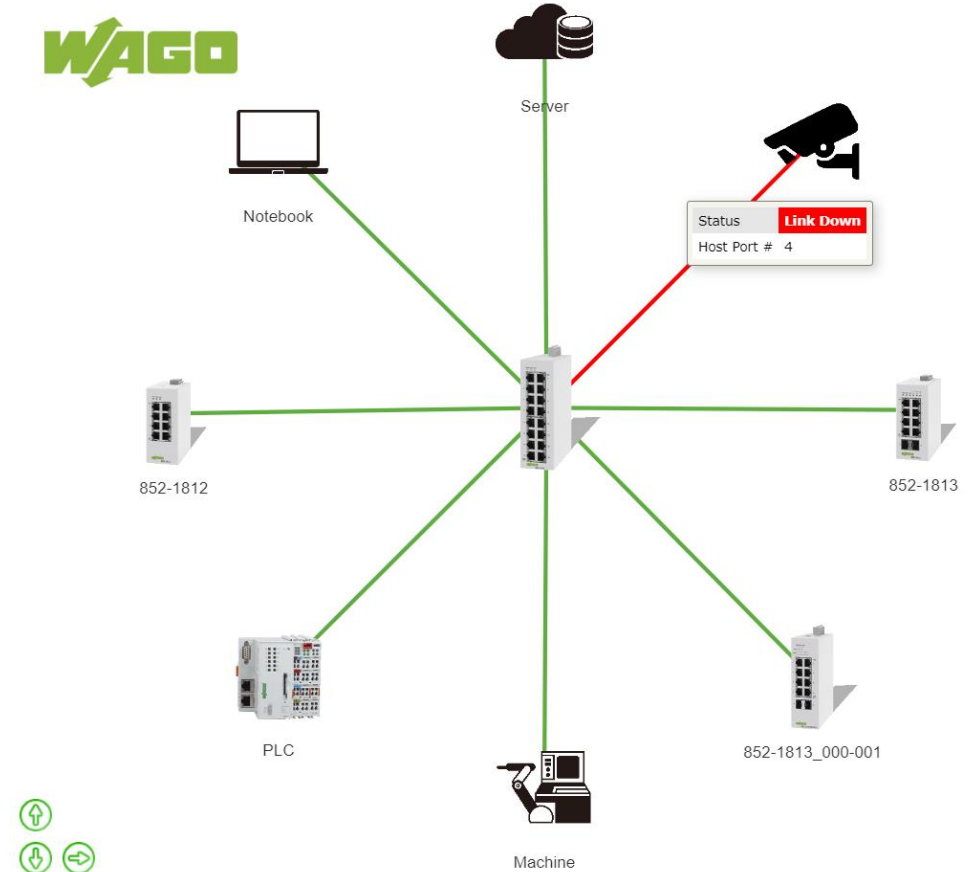
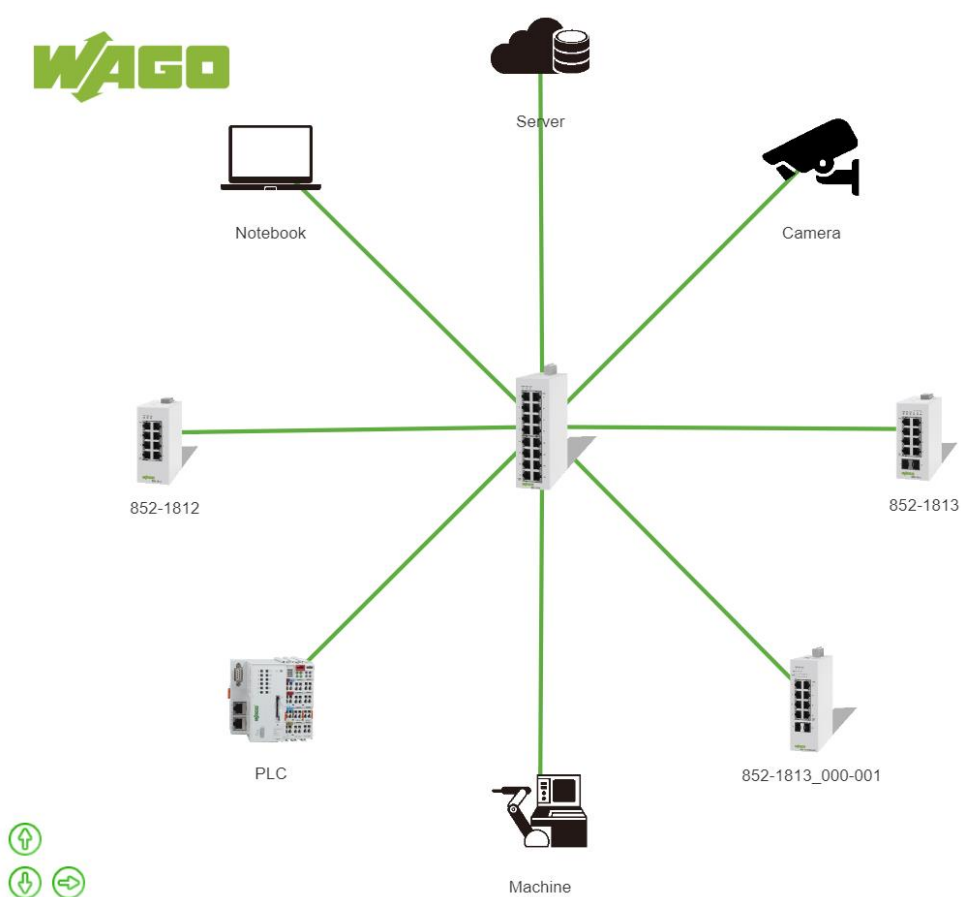


Increase of ...

Security,
Availability and
Robustness

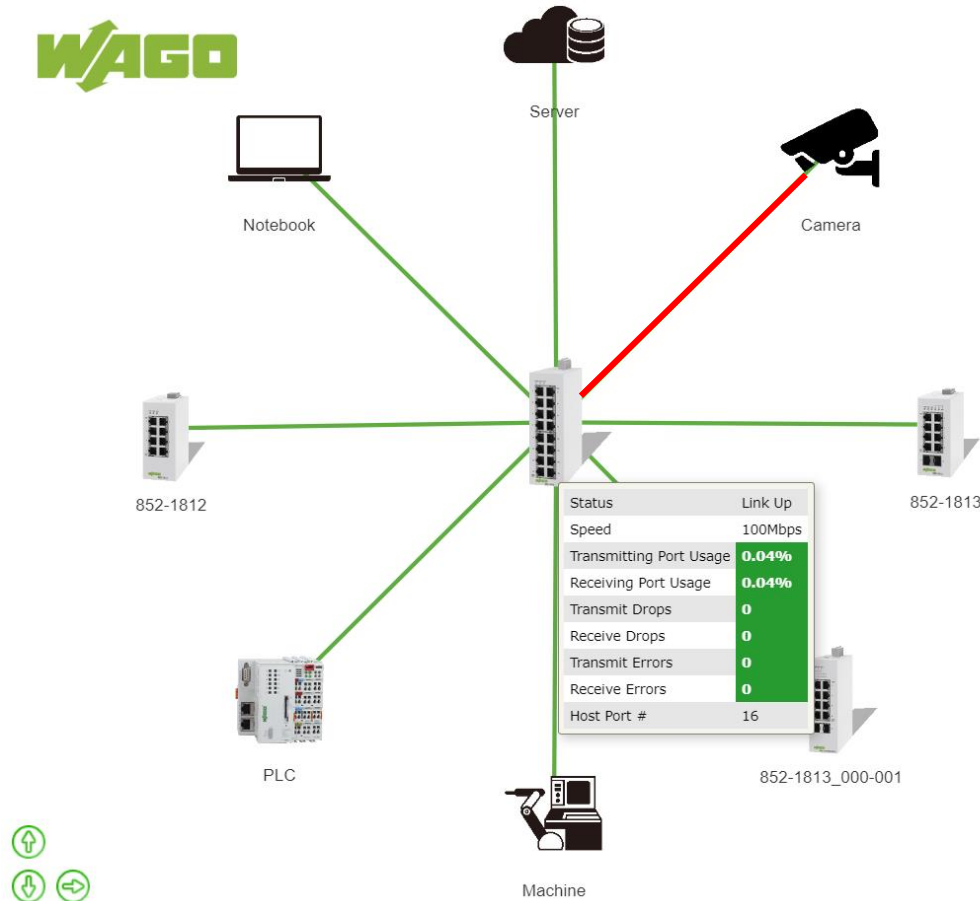
... in the network

Use Case: Finding loose contact



Link: Play video

Topology Map for easy diagnosis



Target group for Topology-Map / Dashboard:

- Mechatronic engineers
- System operators, caretakers
- Automation technicians

Application:

- Topology Map accessible via IP address
- All green, everything OK
- Double click on WAGO-SPS → Web-Visu starts
- Computer Cursor touches cable ...
→ Information about the connection
- Double click on Lean-Managed-Switch
→ Diagnosis Dashboard will open