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Vernetzen Network Solutions

Industrial Networks for Underground Mines and Tunnels

Vernetzen
Industrial Networking and Cybersecurity

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Vernetzen Network Solutions

Industrial Networks for Underground Mines and Tunnels

Strata Worldwide is pleased to globally distribute the Vernetzen range of networking solutions. The solutions represent a new approach to industrial mining networks that enable vehicle automation in underground environments.

The range of solutions includes:

- **Wi-Fi over Coax (WoC) for long linear coverage providing high speed Wi-Fi connectivity**
- **Critical Software Defined Networking (SDN) to meet critical infrastructure demands and cyber-security control systems.**
- **Veto Network Management, Remote Support and Diagnostics application.**

Wi-Fi over Coax (WoC)

Long Linear Coverage Wi-Fi Solution for Industrial Applications

Vernetzen's Wi-Fi over Coax (WoC) wireless access system provides industrial-grade high bandwidth networking for reliable and continuous connectivity for static and mobile industrial field devices and applications such as communication, tracking, cameras, Programmable Logic Controllers (PLCs), safety systems, autonomous and semi-autonomous vehicles, and train-to-trackside connectivity.

These powerful capabilities can enable autonomous operation of critical mobile assets in underground mining and tunnelling and deliver a high-reliability solution for applications that need robust high bandwidth wireless connectivity.

Critical Software Defined Networking (SDN)

A New Networking Architecture Approach

Software Defined Networking (SDN) is a new Networking Architecture approach that is purpose-engineered to meet specific critical infrastructure demands and cyber-sensitive control systems. It unlocks the previously closed, restricted networking behaviour of legacy solutions and delivers improved security, situational awareness, reliability, and performance.

Critical SDN also reduces a system's total cost of ownership. Legacy technology requires owners to invest significant time manipulating the closed, fixed behaviour of their networks, increasing the complexity in system testing and upkeep. With Critical SDN, owners have direct control over the operation of and the content that is forwarded over the network. They also have the confidence the network will operate exactly as always intended—regardless of traffic or devices attempting to connect—resulting in secure, simple, and reliable networks.

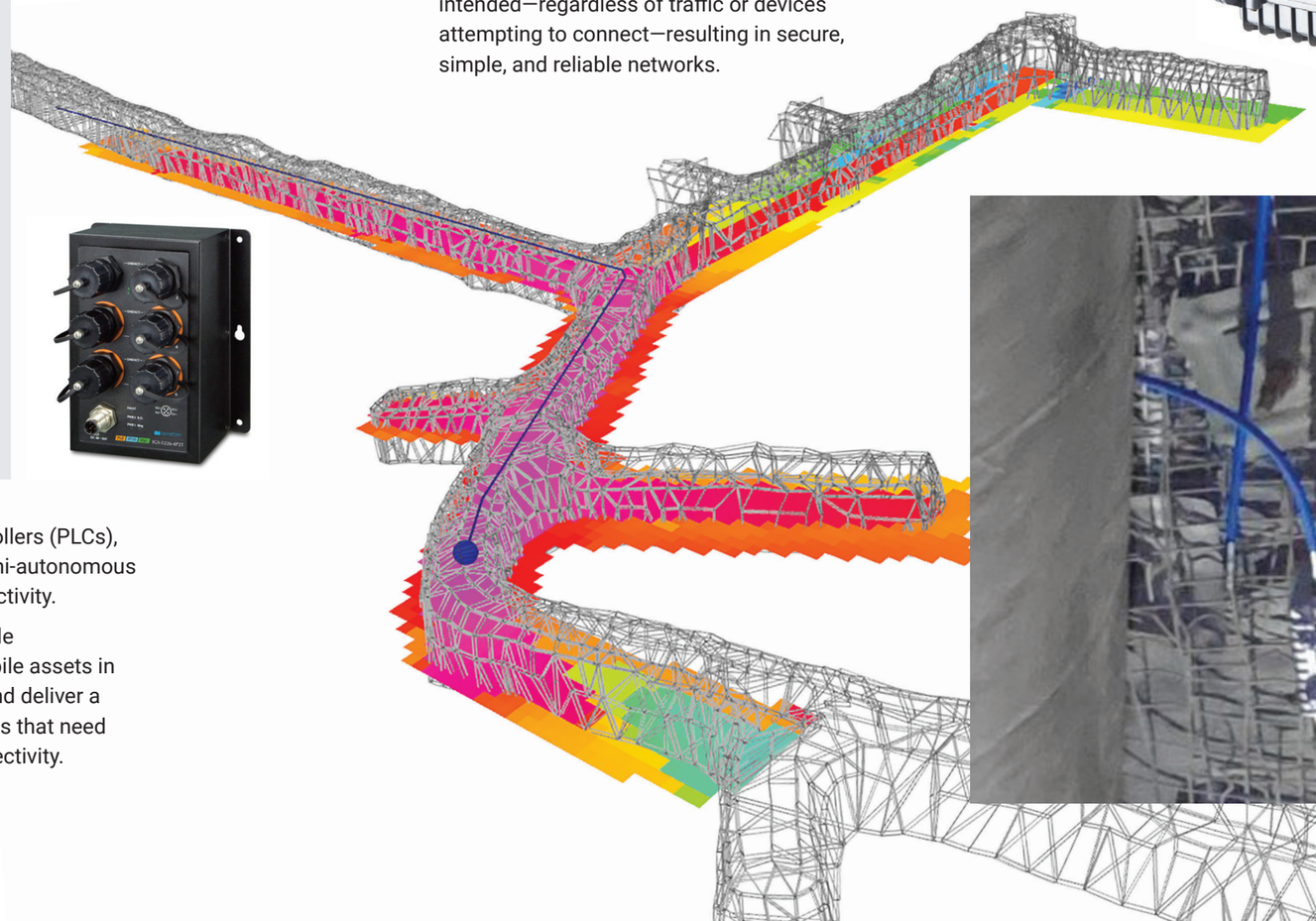
Veto Network Management and Support Application

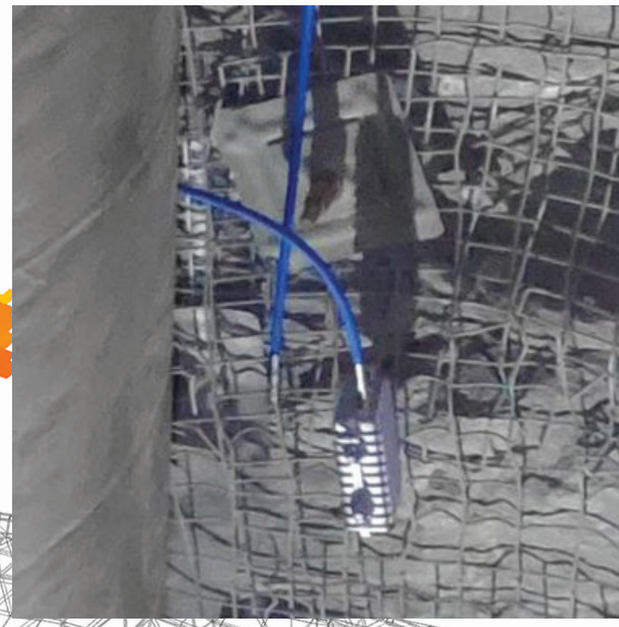
Secure Support Solution for Critical Infrastructure

The Veto application includes a range of advanced, user-friendly tools to assist in remote support, system diagnostics, network performance analysis and network management of the SDN hardware.

Network traffic engineering with the Veto SDN Controller enables flexible configuration of each communications flow path and the ability to proactively engineer fault-tolerant networks, resulting in greater performance, improved reliability and more deterministic packet delivery.

Veto diagnostics enables the network performance to be properly assessed while also identifying any problems, quickly and efficiently.





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More than a Supplier...

Strata maintains a successful track record by working closely with customers and fully understanding individual project needs. On-site and remote service capabilities provide ongoing support and troubleshooting and help to ensure system integrity.

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