

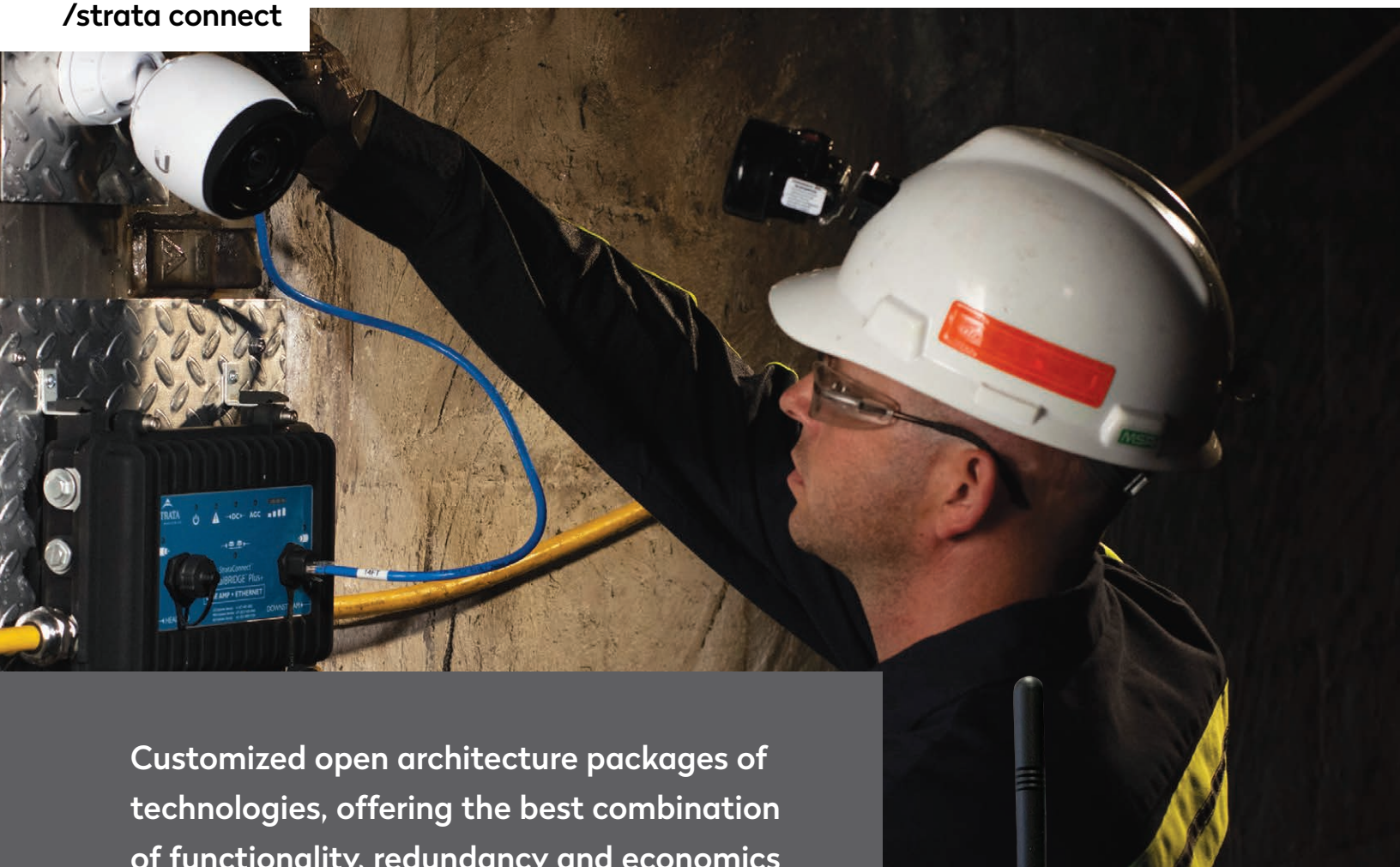
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Communication, Networking and IoT in Tunneling

Tailored combination of wired and wireless infrastructures for surface and underground operations





Customized open architecture packages of technologies, offering the best combination of functionality, redundancy and economics



StrataConnect IoT Gateway

Supports open standard high-speed Wi-Fi®, Bluetooth® and LoRa® for underground communications, tracking and IoT.

StrataConnect IoT Gateway leverages existing infrastructures including fiber, Ethernet and DigitalBRIDGE Plus+ leaky feeder to establish a wireless coverage area of up to 2000m in underground tunnels.

- Dual 802.11b/g/n 2.4 GHz Wi-Fi® radios
- Bluetooth®
- LoRa®
- 2x 1 Gbps Ethernet ports
- 802.3bt PoE in & Passive PoE Out
- 1Gbps SFP
- RS485/Modbus
- GNSS
- GPIO
- 900 MHz wireless mesh

StrataConnect DigitalBRIDGE Plus+

A combined fiber & leaky feeder backbone to support high-speed Ethernet data, voice, tracking, telemetry, and digitizing new or existing VHF leaky feeder networks

- Power-over-Ethernet (PoE) access for IoT field devices, cameras, Wi-Fi access points, tag readers, gas detectors and more, throughout the tunnel and TBM
- High speed connectivity supports live camera feeds, communication, IoT, and connectivity to emergency refuge chambers
- DMR and LMR turnkey solutions for TBM, tunnel and surface



Tier 3 Trunked Digital Mobile Radio (DMR)

- Voice and data
- Secure, private conversations
- Clear voice quality with noise reduction
- Text messaging
- Location-based services for safety, warnings and vital information
- Call availability features for call priority, call timers and call queuing
- Intelligent voice and data organization
- SCADA and Telemetry
- Less FCC Licensing
- Intrinsically safe radios



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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