

WHO IS MTC



MTC is the largest mobile telecommunications operator in Namibia, with over 2.5 million active customers. For 26 years, MTC has grown revenue and retained customers by providing connectivity services and solutions to post-paid and pre-paid individual and business subscribers through its extensive telecommunications transmission and distribution network.

LEADER IN INNOVATION

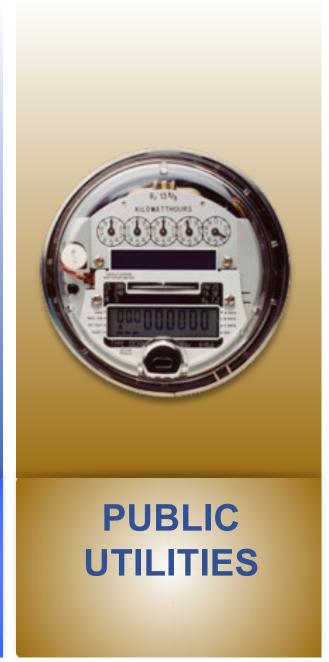
MTC has smart partnerships with industry leaders to keep up with technology and bring new concepts and services to Namibia. MTC's position at the forefront of innovation is demonstrated by its track record as the first to:

- Establish a 24-hour contact centre in Namibia
- Take to market a prepaid subscription service that bundles voice, SMS and data with its seven-day Aweh offerings
- Commercially launch LTE in Africa
- Successfully trial 4.5G technology in Africa
- Launch commercial use of LTE-A and 4.5G LTE in Africa
- Deploy self-help kiosks or vending machines for its products and services
- Deploy a payment gateway on the MyMTC app
- Foster a collaborative innovation drive with tertiary institutions and entrepreneurs



DIVERSE AND BROAD MARKET BASE













AVIAT WIRELESS ACCESS APPLICATIONS

TELECOM

- Digital Divide
- Rural Connectivity
- B2B Access Services
- Backhaul





GOVERNMENT

- Smart Cities
- Defense
- Surveillance
- Intelligent Transportation Systems



ENERGY-MINING

- Digital Oilfield
- Digital Mine
- Digital Grid
- Autonomous
- IoT & Industry 4.0 enablement



THE SHIFT TO DIGITAL MINING/OIL/GASS

- The mining industry is undergoing a significant shift towards digital transformation.
- Adoption of digital technologies is crucial for enhancing operational efficiency, safety, and sustainability in mining operations.
- Leveraging advanced technologies like IoT, AI, and 5G, mining companies in Namibia can achieve substantial improvements in various aspects of their operations.

Wireless Connectivity

A cornerstone for digital oil/gas, wireless connectivity facilitates seamless communication and data transfer between devices and systems.

Streamlined Operations

Integrated digital solutions ensure smooth coordination between different components of mining operations, minimizing downtime and improving overall performance.



Optimized Processes

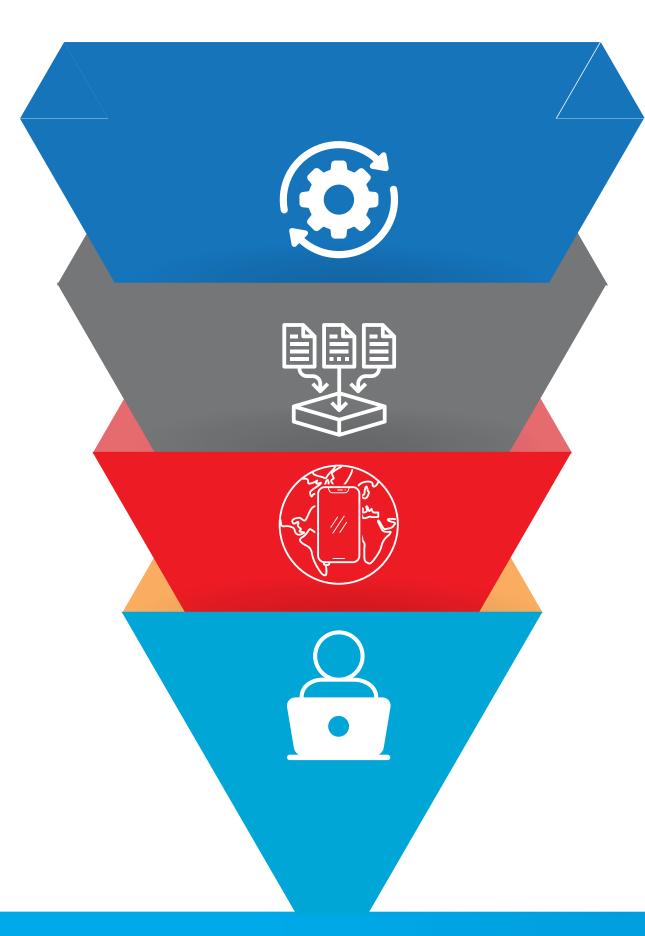
Digital technologies enable automation and optimization of mining processes, leading to increased productivity and reduced operational costs.

Data-Driven Decisions

Real-time data collection and analysis provide valuable insights for making informed decisions, enhancing resource management and operational efficiency.



THE CORE OF DIGITAL OIL/GASS WIRELESS CONNECTIVITY



AUTONOMOUS OPERATIONS

- Wireless solutions enable the remote control and automation of mining equipment.
- This leads to increased efficiency and reduced human intervention in hazardous areas, enhancing worker safety.

REAL-TIME Data Analysis

- Continuous monitoring of equipment and environmental conditions.
- Real-time data collection and analysis improve decision-making, boost safety, and optimize resource management.

INTEGRATION OF Fixed & Mobile Operations

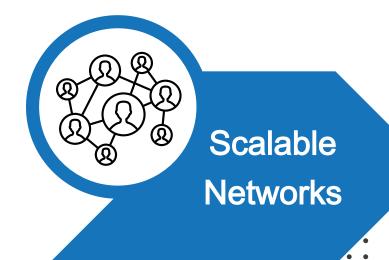
- Seamless communication between stationary infrastructure and mobile assets.
- Ensures smooth coordination and enhanced operational efficiency across the mining site.

REMOTE WORKER Support

- Connected worker solutions enhance safety and productivity for personnel.
- Real-time communication and monitoring ensure compliance with safety regulations and provide immediate support in case of emergencies.



OVERCOMING CONNECTIVITY CHALLENGES IN MINING/OIL/GASS







Seamless Integration



Security

- Ability to expand the network as the digital marine grows without losing performance or reliability.
- Flexible infrastructure that adapts to the evolving needs of mining operations.

- Solutions designed to withstand harsh mining conditions such as extreme temperatures, dust, and moisture.
- Ensures consistent and reliable performance in challenging environments.

- Ensures smooth transitions to digital operations, integrating with existing systems and infrastructure.
- Compatibility with legacy systems to avoid disruptions during the digital transformation process.

- Robust protocols to protect sensitive data and operations from cyber threats.
- Comprehensive security measures to safeguard against unauthorized access and data breaches.



AVIAT – THE WORLD'S MOST TRUSTED MICROWAVE COMPANY

Who

WE ARE

The Leading Global
Microwave Specialist
Industry leading Wireless
Access Solutions
70 years of industry experience
200+ Technology Patents
NASDAQ: AVNW

Where

WEARE

Headquarters in Texas, USA R&D in Slovenia, NZ, Canada, and USA

Production in USA, Thailand, Taiwan

Presence in >30 countries

>5,000 customers worldwide

Deployed in >350 mobile networks

2 million systems deployed

What

WE DO

5G Wireless Backhaul

Enterprise LTE / 5G Wireless Access

Public Safety Networks

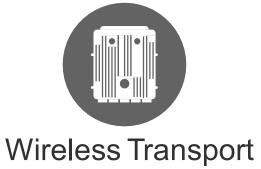
Utility Transport Networks

Long-Haul Backbone

Network-wide Operations

Global turnkey services









Routers



Software



Services



OVER 75 YEARS OF EXPERTISE

• 1944

Aviat Networks can trace its wireless beginnings back to Lenkurt Electric



Harris Stratex rebrands as **Aviat Networks**



Aviat Networks completes the acquisition of Redline Communications, adding access solutions to its portfolio







Harris Stratex Networks forms as the result of the merger between Harris MCD and Stratex **Networks**



2020

New management leadership brings the company renewed customer focus and disciplined operating model



Aviat Networks completes the acquisition of **NEC Microwave Division**

A Long History of Wireless Leadership

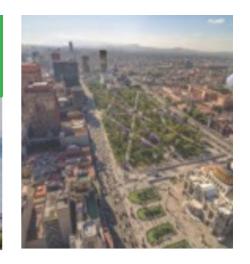


AVIAT NETWORKS WIRELESS ACCESS SOLUTIONS

POWERFUL























 Aviat provides the most powerful, rugged and reliable wireless networks using leading-edge technology to deliver the lowest total cost of ownership to organizations building private wide-area networks.



ENABLING DIGITAL OILFIELD TRANSFORMATION

Digital Oilfield

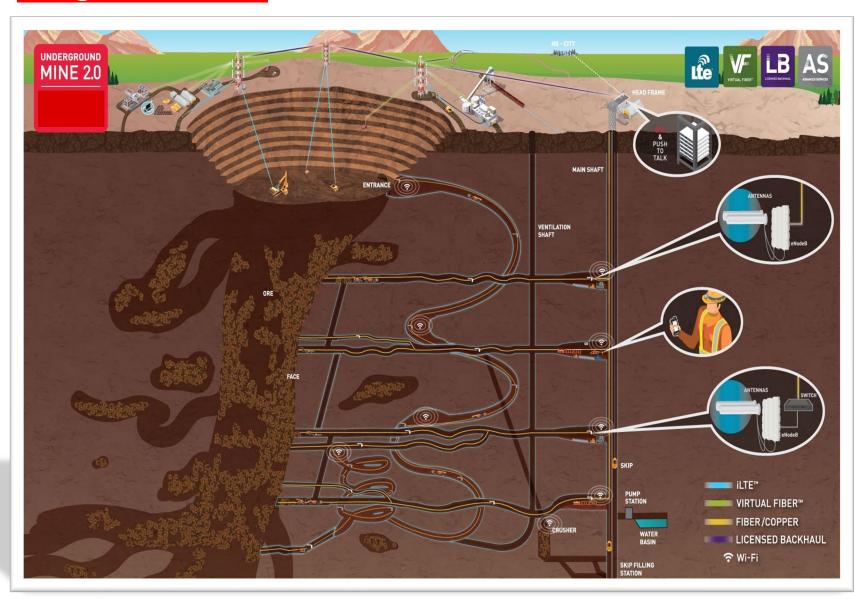


- Onshore & Offshore specific solutions
- Single, secure infrastructure for IT & OT
- Increased productivity via connected people & machines
- Remote Drilling, Operations, Inspection
- Real time process optimization and asset reliability
- Lower CAPEX/OPEX VS Legacy systems
- Simplified network operations & Connections



ENABLING DIGITAL MINE TRANSFORMATION

Digital Mine



- Surface, Underground, site-to-port
- Always "on- grid" people & Machines
- Adding Voice, Video & Data to "Air & Water"
- All mine assets and site are "connected"
- Autonomous Processes & vehicles backed by Autonomous fault recovery & redundancy
- Push-To-Talk migration & integration



AVIAT'S VALUE PROPOSITION

- Absolute Reliability
- Military-Level Security
- High Capacity and Scalability
- Versatile and Flexible Connectivity
- Remote Management and Ease of Use
- Cost-Effective Solution (TCO)
- Enhanced Operational Efficiency
- Integrated Digital Architecture
- Advanced Management System



TELECOM - WISPs

Best Performing PMP System
Highest Revenue per MHz
Reliable in unlicensed spectrum



GOVERNMENT/DEFENSE

Large Area Coverage Complete LTE Network Handhelds, Vehicles & PTT



ENERGY - MINING

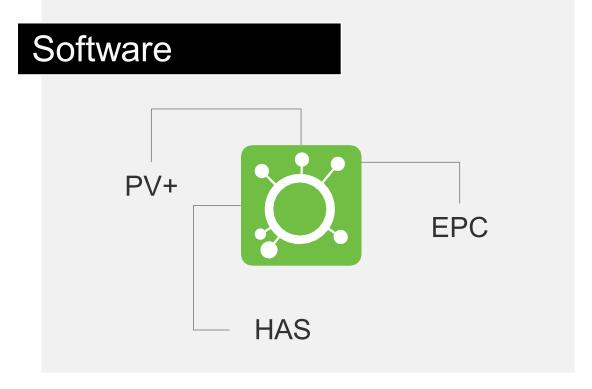
Low-cost roll-out – low OPEX
Stable & Reliable
Large Capacity for M2M & IoT

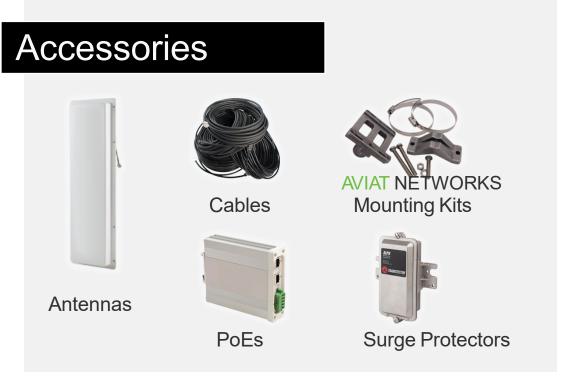


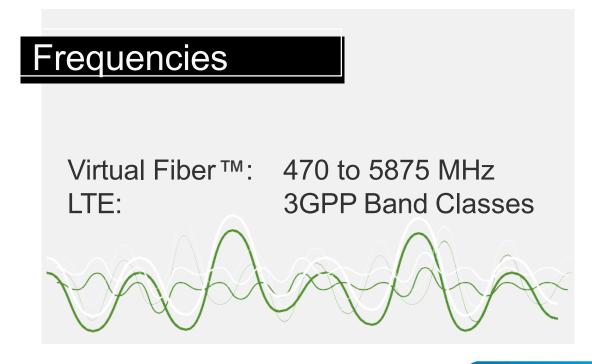
Aviat Wireless Access Product Portfolio









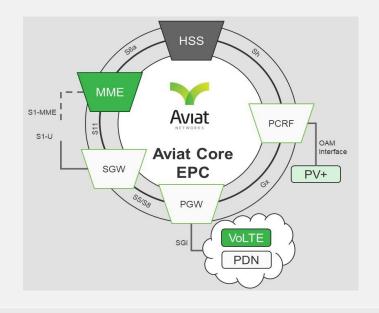


Mobile, Fixed and Nomadic Wireless Access Solutions



LTE - 3GPP COMPLETE PRIVATE MOBILE SOLUTION

Core Network



Transport Network



Mobile Network



User Devices



Aviat Core EPC/VoLTE

- LTE/5G Evolved Packet Core (EPC)
- A complete stand-alone system
- Centralized, Distributed, Synced HSS, Cloud, Imbedded

Aviat Licensed Backhaul

- Point to point or multipoint
- Nomadic backhaul
- Industrial deploy anywhere

Cell Site Radios

- LTE eNB Cell Sites
- Tx power options
- Long Range
- Compact
- Low power consumption
- Industrial deploy anywhere

Mobile Devices

 Standard LTE units focused on s customer market segments





PRIVATE LTE APPLICATIONS



OIL & GAS

- Offshore Platforms, Vessels, & FPSOs
- Onshore Drilling Operations
- Refineries, separation, & collection



PUBLIC SAFETY

- First Responders
- Emergency Response Teams
- Fire, Police, Paramedics, Ambulance



MINING

- Open Pit Operations
- Crushers & Processing
- Field offices



WATER UTILITIES

- City-wide water storage facilities
- Wastewater treatment facilities
- Pipeline monitoring & control



SPORTING EVENTS

- Stadium coverage
- Municipal sporting events
- Temporary venues



RURAL 4G/DIGITAL DIVIDE

- Stadium coverage
- Municipal sporting events
- Temporary venues



ELECTRICAL

- Generation facilities
- Field offices / Substations
- Strategic field locations



MILITARY

- Rapid deploy Combat Outposts
- Forward Operating Bases
- Mobile Units
- The Connected Soldier



RAS Extend Marine

- Designed for use with marine vessels
- Geo-tracking
 - Use with Network Topology Awareness from sectors
 - Includes geofencing
- Resistant to harsh marine environments (i.e. salt, fog, etc.)
- Integrated dual GPS receiver/antenna
 - Provides bearing even when stationary
- Support for all frequency bands
 - 2.1/2.5/3.5/5GHz with 2' (60cm) parabolic
 - 600MHz with 18" (46cm) panel



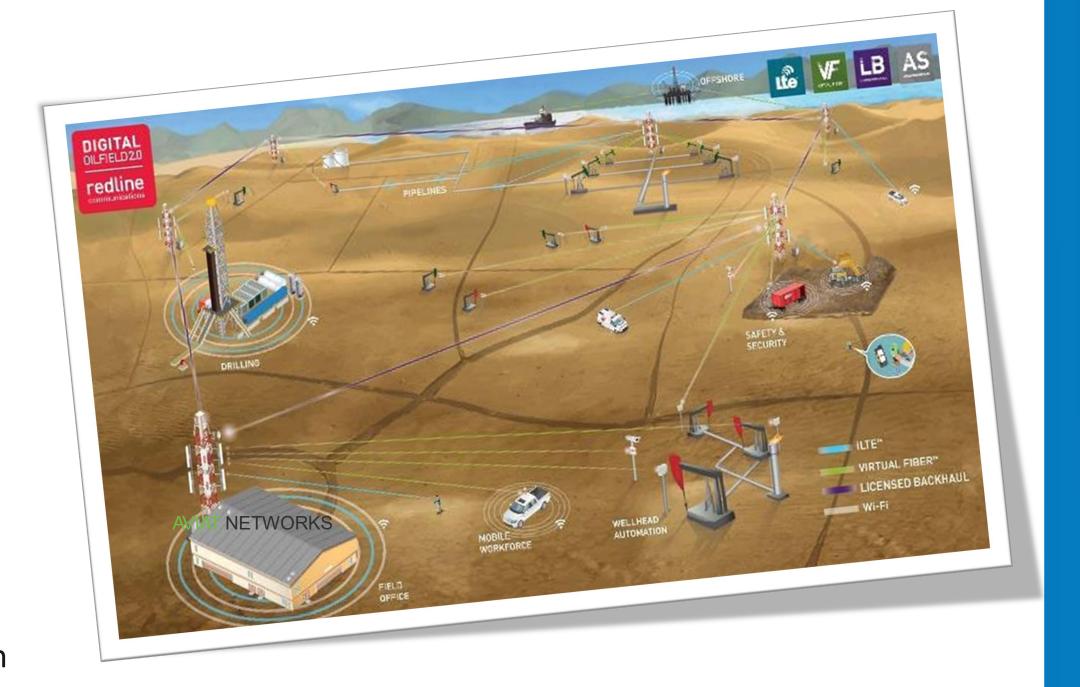
THE INTELLIGENT ENERGY OPERATIONS

THE PROBLEM

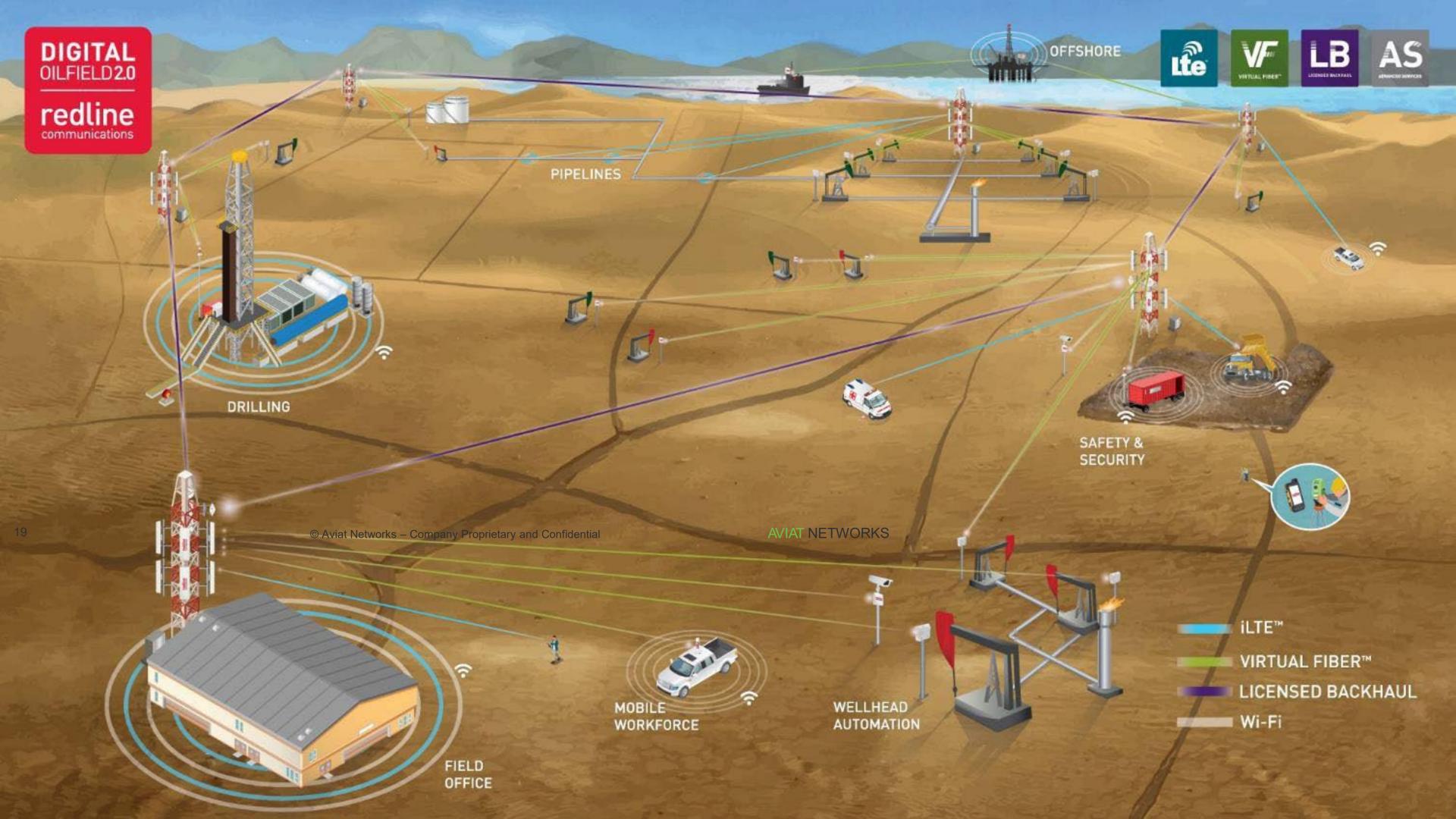
To meet the increasing and challenging demands of collaboration, visibility, safety, and enhanced oil recovery, Oil & Gas companies require a reliable and versatile network infrastructure that offers high performance and security and supports multiple end devices which are often moved to different locations around the field. simultaneously.

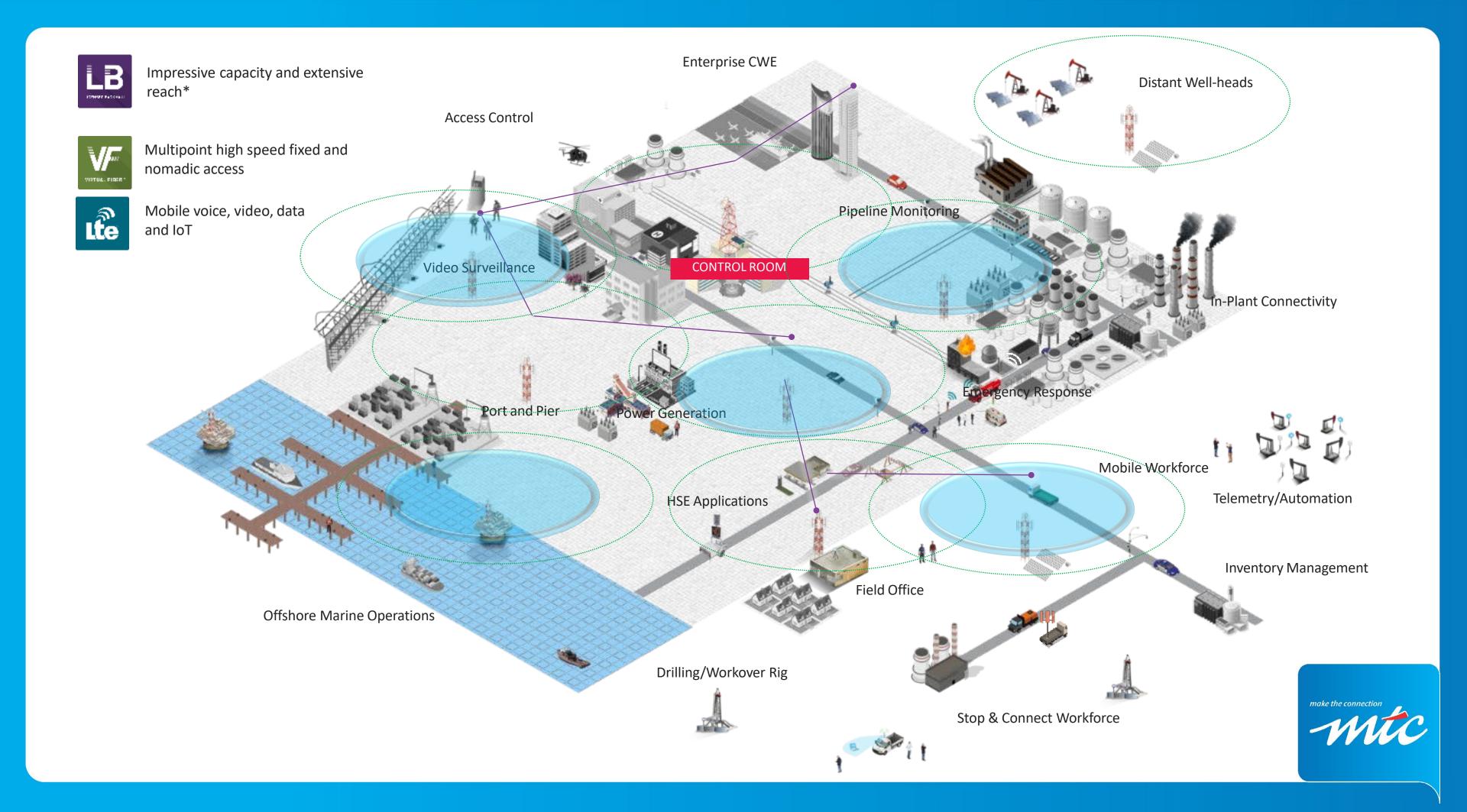
WHY AVIAT

Aviat's purpose-built mobile, fixed and nomadic industrial wireless network solutions have been designed for reliable operations in the most challenging locations, with user experience at the heart of everything we do. All of this coupled with our detailed operational knowledge.

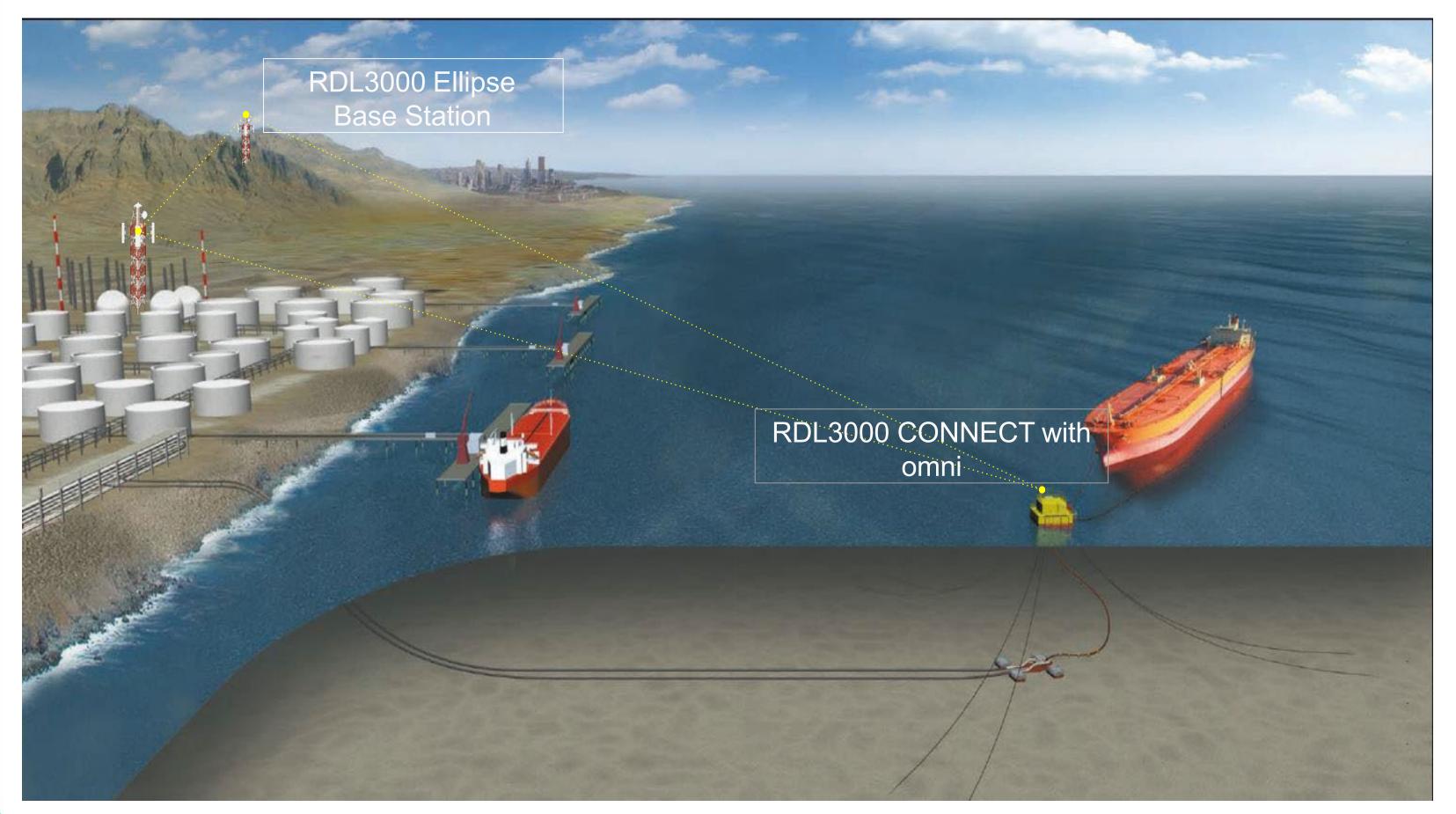








SINGLE POINT MOORING CONNECTIVITY – ONSHORE TERMINAL TANKER LOADING





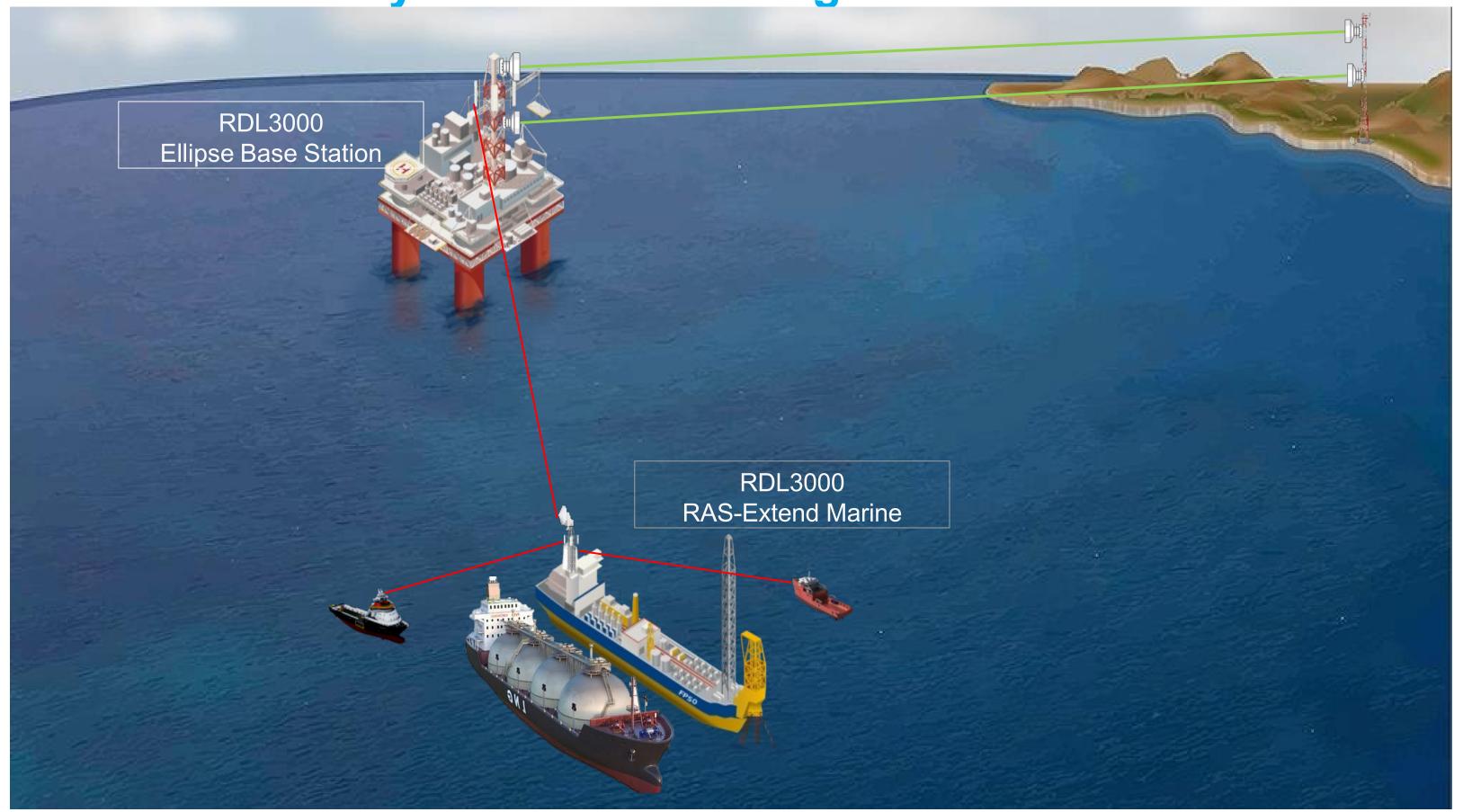
SPM Installation







FSO Connectivity – offshore loading

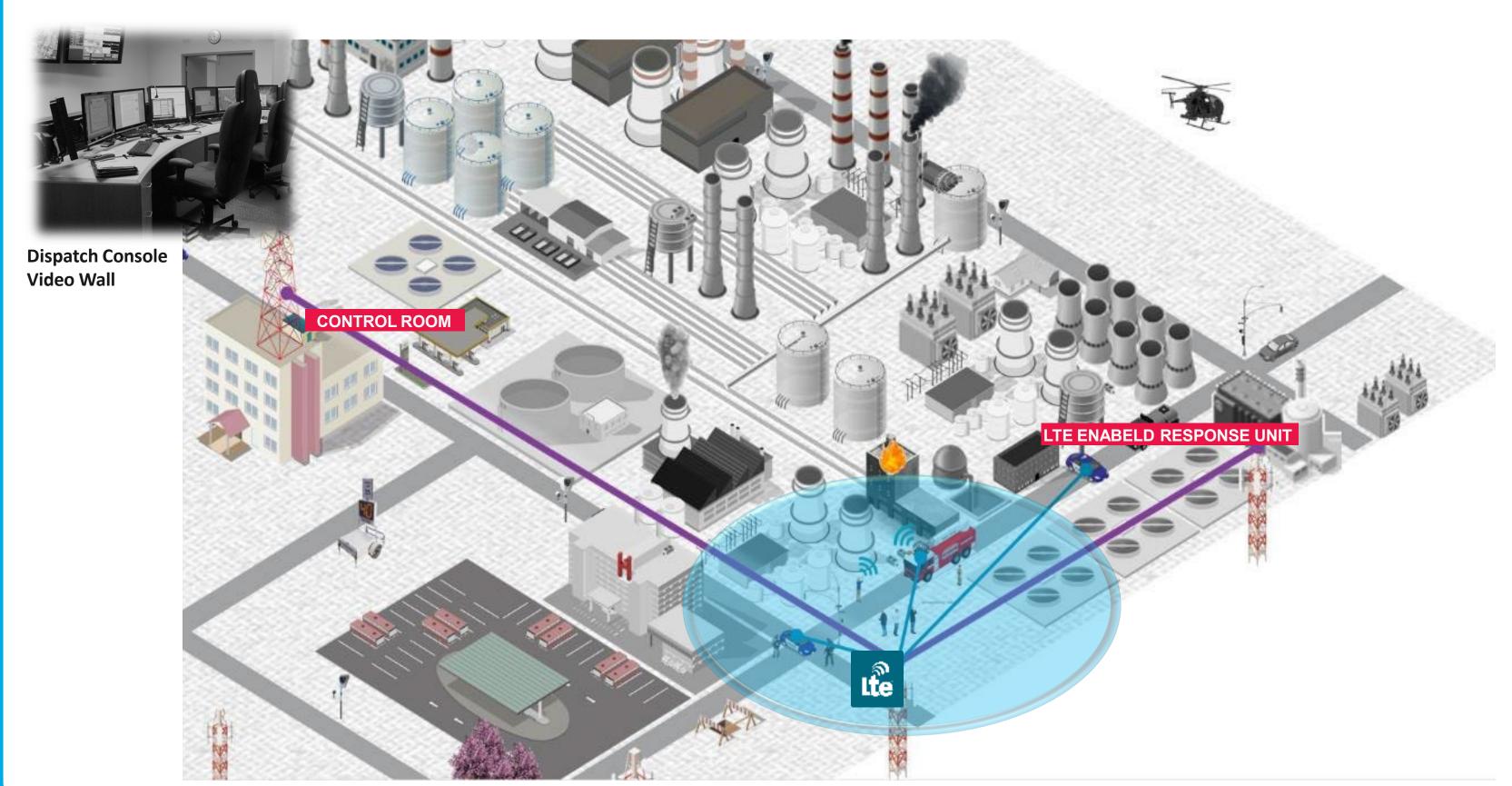




BACKHAUL OF WI-FI ACCESS POINTS INSIDE PROCESSING PLANTS CONTROL ROOM Root Access Point WI-FI Access Points



MOBILE ACCESS INSIDE THE PLANTS - HSSE





MOBILE ACCESS - INSPECTION, ROBOTICS





Aviat Premises and Cloud-Based Software Tools

DESIGN

Link Planning & Design



- Design Microwave, E-Band and Multi-Band links in the cloud
- 3rd party product support
- Advanced features, eg: MIMO
- Equipment look-up database
- Free to



STORE

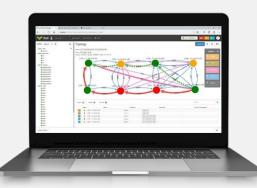
Online Ordering with Fast Delivery



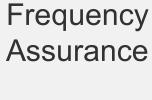
- Fast and easy online ordering
- BoM creation, including radios, antennas, licenses and accessories
- Fast delivery from stock
- Order tracking

PROVISION+

Element Management



- Single pane of glass for all Aviat Transport and Access products
- Multi-layer network visualization and troubleshooting
- RestConf NBI and SDN



FAS



- Monitor and report interference
- Protect against WiFi-6E interference issues
- Improve link performance, protect against outages

HAS

Health Assurance



- Reduces network downtime
- Predictive algorithms continuously analyze the network
- Identifies problems before impacts occur
- Simplifies capacity planning











Aviat Value

Absolute Reliability

- Industry-Leading Durability: lifecycle rating exceeding 20 years.
- Extreme Temperature Operation: -40°C to +75°C

Military-Level Security

- High Security Standards
- Advanced Cryptography

High Capacity and Scalability

- Supports Thousands of Devices
- Wire-Speed Processing: Optimized for massive IoT data traffic

Versatile and Flexible Connectivity

- Multi-Frequency & Multi-Terrain Compatibility: 470 MHz to 6 GHz & all 3GPP bands and works in all terrains and weather conditions.
- Comprehensive Device Support: Compatible with TCP/IP and serial communications, supporting a diverse array of RTUs, PLCs, mobile devices, and M2M connectivity.

Remote Management and Ease of Use

- Efficient Network Operations: Remotely manageable, instant, one-step provisioning from the field, no specialized hardware or skills.
- Low Power Consumption: Designed for energy efficiency, with low power requirements suitable for solar or alternative power sources.









Cost-Effective Solution

- Reduced Infrastructure Needs: Long-range point-to-multipoint operation minimizes the need for multiple towers, while compact, lightweight eNodeBs reduce installation costs.
- Single Unit Versatility: Serial and TCP/IP communications, simplifying infrastructure & reducing costs.
- Rapid Deployment: Deploys faster and at a much lower cost than traditional fiber & microwave solutions.

Enhanced Operational Efficiency

- Unified Connectivity: Private LTE networks unify office & field operations, extending office applications to the field and ensuring connectivity for personnel, vehicles, and fixed assets.
- Real-Time Data Collection and Control: Enables management by exception, high-resolution video surveillance, and analytics at the network edge, enhancing operational efficiency.

Integrated Digital Architecture

- Mobile and Fixed Connectivity: Supports connectivity for mobile devices, vehicles, sensors, and general machine-to-machine (M2M) communications.
- Virtual Fiber ™ Backhaul: Proven globally, this solution backhauls the LTE network and offloads bandwidth-intensive applications, ensuring seamless integration with existing IP infrastructure.

Advanced Management System

- Single 'Pane-of-Glass' Interface
- Integrated Functionality
- Advanced Analytics Tools
- Usability and Automation

- High Availability Configurations
- Managed Service Offering
- Flexible Deployment Options









