VIAVI
VIAVI Solutions

Brochure

Managing Mission Critical Communications for Ports

Actively test, monitor, troubleshoot and manage mission critical communications systems from end-to-end

Increased productivity, improved safety, and better voice, video and data communications throughout the site, are just three key reasons why port operators value mission critical networks.

That's because private 4G and 5G networks bring new benefits and opportunities. For example, greater connectivity enables greater automation, helping to improve productivity and worker safety.

And making it easy for ships to connect to the network, when entering the port, can also increase their revenue, too.

At VIAVI, we understand that maintaining a high quality of service and quality of experience in such a challenging environment is just as important as providing the service itself.

Our expertise in testing, measuring and managing quality of service (QoS) for both telecoms networks and mission critical communications systems means we can give you all the support you need.

How We Can Help

- Our EVOIA solutions allow to you to test, measure, monitor your mission critical communications running on public and/or private networks, from end-to-end, and keep them secure

- Actively test your network MCPTT, MCdDta and HD MCVideo coverage vs. SLAs and identify interference issues – before deployment and during operations

- Monitor the MCx, Core and RAN, 24/7, including the use of automated alarms and alerts

- Improve and manage secure MCPTT communication call quality for individual, emergency and group calls

- Use MCVideo, to support worker safety and provide greater clarity on operations throughout port sites

- Enable MCData to connect multiple IoT devices, and provide real-time insights to boost productivity and profitability, and support predictive maintenance

- Use a multi-tenant approach for multiple port sites, providing an overview for management with more restricted local data access for individual operations

- Detect network and system vulnerabilities and cyber threats easily and with confidence

- We are 2G, 3G, 4G and 5G ready

Introducing the EVOIA Portfolio

VIAVI EVOIA solutions make it easy to monitor your mission critical communications networks, radios and data throughput.

Giving you end-to-end visibility of:

- Mobile devices
- RAN
- Core
- IMS
- MCx, ETCS, and other applications

You can also detect and protect against cyber-attacks, keep track of SLAs and troubleshoot communications issues, easily and quickly.

EVOIA Solution Summary

- The EVOIA solutions are suitable for 3GPP-based systems using push-to-x and mobile data services (group calls, MCVideo, chat, emergency calls, MCData calls and more)

- **EVOIA Assure** – a web-based, interactive dashboard to
    - monitor the MCx, Core and RAN
    - drill down to troubleshoot network communication issues
    - generate reports, automatically based on a predefined or custom template with an email notification feature

- **EVOIA Cyber** – a straightforward way to detect, discover and alert on network vulnerabilities and cyber-threats

- **EVOIA Drive Test** – for active testing of network coverage, using backpacks or trolleys with remote and automated testing capabilities

- **EVOIA Pocket** – an app-based Drive Test solution for smartphones

End-to-end Mission Critical Communications Testing and Monitoring Made Easy with EVOIA

SERVICE ASSURANCE

TEST AND MEASUREMENT

ASSET MANAGEMENT

EVOIA Portfolio

CYBERSECURITY

PERFORMANCE OPTIMIZATION

TROUBLESHOOTING

VIAVI Aims to Answer the Needs of Anyone Responsible for Mission Critical Operators

We are 2G, 3G, 4G and 5G ready

VIAVI Solutions provide market-leading tools specifically for railway and other mission critical operators using 2G, 3G, GSM-R, 4G, 5G and FRMCS networks. As well as transportation (railways, airports, and harbours), the Emergency services, power plants, offshore platforms, factories, hospitals, and mining operations, are all embracing the new generation of Mission Critical Services (MCS) networks.

As these services become more attractive, popular, and people are more reliant on them, any disruption to service can have a critical impact, not just on business, but also on human life. That's why Mission Critical Services availability must be monitored and tracked constantly to allow Mission Critical Operators to investigate and quickly fix issues. We provide powerful solutions, which actively test, monitor, troubleshoot, and manage mission critical communications systems. This enables end-to-end visibility of mobile devices, RAN, Core, IMS, MCx, ETCS, and other applications.