MultiTech LENS®

LoRaWAN®-optimized embedded network server and key management toolset

MultiTech introduces LENS® – a revolutionary toolset for secure, distributed, scalable LoRaWAN® enterprise networks, designed to enable easy and efficient deployment and management of private LoRaWAN networks at scale. LENS provides centralized key management for LoRaWAN end devices, and configuration and control of MultiTech Conduit® gateways. LENS easily executes typical LoRaWAN network management functions such as adding gateways and LoRaWAN end devices in bulk; or creating separate organizations and network segmentation to support different IoT use cases or applications, while providing unique access rights to individual users. Whether it's 10 or 10,000 devices, LENS provides network management at the click of a mouse button in the comfort of your network operations center (NOC) or provisioning and management center.

With LENS, customers can:

- **Leverage edge intelligence and run their unique custom application on a MultiTech Conduit gateway.**
- **Significantly reduce network connectivity costs and have complete control over the traffic allowed on their private LoRaWAN network.**
- **Execute secure key management at scale for their private LoRaWAN network.**
- **Strengthen data privacy and network security profile by using their own private LoRaWAN network.**

www.multitech.com/lens

LENS BENEFITS

- Capability to load and manage your custom applications on MultiTech gateways, providing the ability to manage your applications and use cases to meet the needs of your business

- As much as 55 times savings on WAN backhaul costs compared to a traditional public LoRaWAN network*

- Enables deployment and management of LoRaWAN devices at scale

- Worldwide coverage – wherever your country-certified MultiTech-based LoRaWAN network is built, LENS can be installed

  * Savings will vary and are dependent on number of gateways, amount of traffic and frequency of traffic sent over LENS LoRaWAN solution.
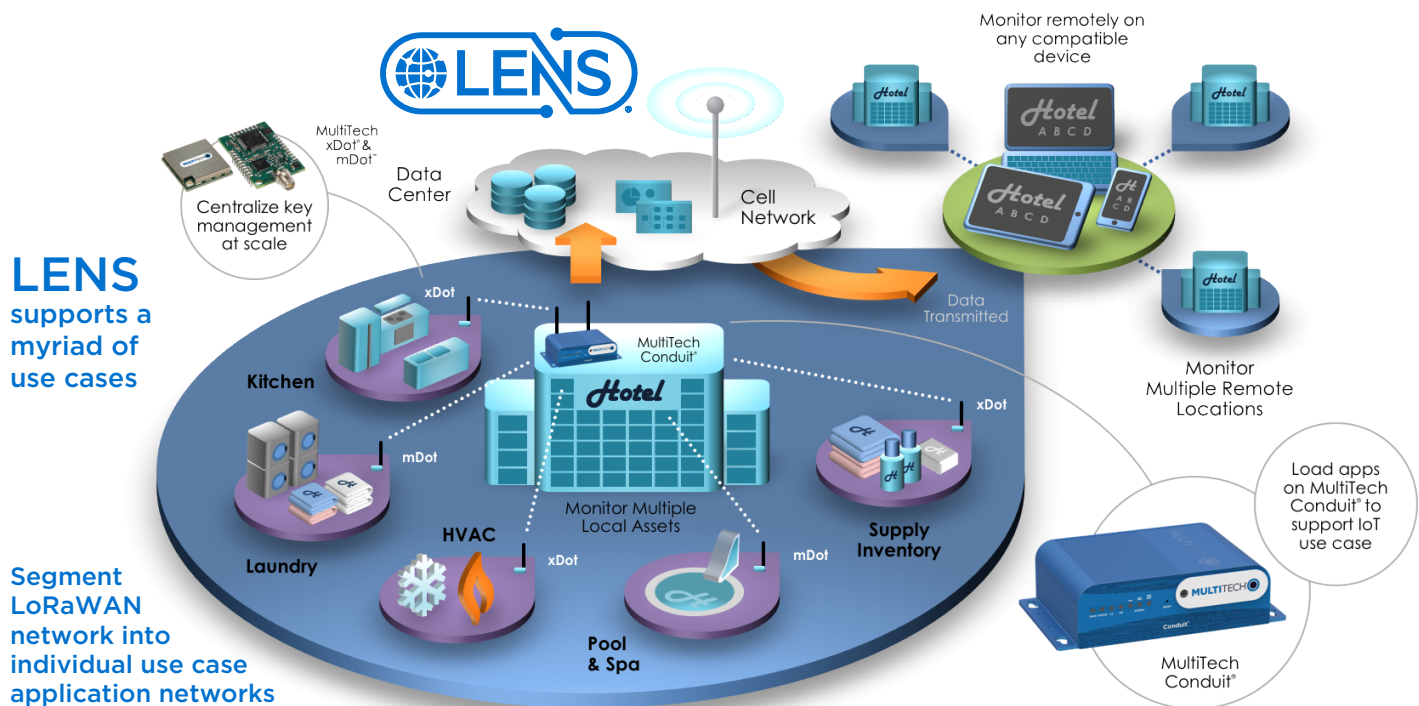
LENS FEATURES

- Supports segmenting multiple application use cases (e.g., mouse traps and cold storage monitoring) over your private LoRaWAN network

- Device Management provides the ability to remotely manage gateway configurations and applications

- White-listing capability provides complete control of traffic across your private LoRaWAN network

- Bulk uploading of gateways and end devices allows rapid scale and easy management of your network

Embedded LoraWAN® Network Server supporting unique application needs

The LENS® architectural structure has been designed specifically to support our customers' unique IoT application use cases. This has been achieved by embedding our LoRaWAN® Network Server in our gateway, while centralizing the LoRaWAN Join Server in our cloud. This design gives the customer complete control to load applications on a MultiTech gateway to support their specific IoT use cases, such as cold storage monitoring, asset monitoring, tank-level monitoring, health and safety compliance or any of countless IoT use cases. This flexibility allows customers to manage the applications on their LoRaWAN network according to the changing needs of their business. Even better, LENS provides this capability all while significantly reducing WAN backhaul costs.

LENS supports a myriad of use cases

Segment LoRaWAN network into individual use case application networks

Monitor remotely on any compatible device

MultiTech xDot® & mDot™

Centralize key management at scale

Data Center

Cell Network

Data Transmitted

Monitor Multiple Remote Locations

Load apps on MultiTech Conduit® to support IoT use case

xDot

Kitchen

mDot

Laundry

HVAC

xDot

MultiTech Conduit®

Monitor Multiple Local Assets

Pool & Spa

mDot

Supply Inventory

xDot

MultiTech Conduit®

Who can use LENS?

LENS is designed for customers who want an easy-to-use, efficient and cost-effective toolset to manage their own private LoRaWAN network. Its flexible and scalable architecture easily supports customers small and large, with the added benefit of enabling deployment, management and expansion at the pace of the individual company. LENS is offered as a hosted service with day-to-day operation and usage of the LENS toolset at the responsibility of the customer.

There are not strict rules for who LENS is suitable for, but the following is a useful guide:

• From 10 gateway to thousands - whether you start small and grow your network or have a very large network, LENS can support you.

• Small or large LoRaWAN endpoint management needs - LENS doesn't charge by the number of end devices in a network or limit that number.

• Hosting unique applications on the Conduit gateway to support their use case needs, all with the ability to remotely update the applications.

• LENS is not limited by industry or vertical markets. The features of LENS support the unique requirements of private LoRaWAN network management: security, cost, scalability and IoT application management.

• LENS is available wherever Conduit gateways are certified today: North America, Europe, Australia, Japan, India and South Korea.

HIGHLIGHTS

Designed with the LoRaWAN® Network Manager in Mind

LENS provides a great user experience to efficiently, easily and cost-effectively manage your LoRaWAN network components. LENS® is an intuitive toolset, providing a variety of dashboard views at the network, organization, application, gateway or device level. Network managers can see a plethora of LoRaWAN traffic information - packets, join requests, missed packets and other information per hour, day or week by application network, gateway or end point level.

Strengthen Security and Reduce Costs via Traffic and Policy Management

Through the Traffic and Policy Management capabilities, network managers can utilize features such as white-list management and set roaming parameters to obtain complete control over the amount, type and location of traffic running over their private network, strengthening their security profile while drastically reducing WAN backhaul costs.

LENS Device Management Capabilities

LENS provides device management capability via its drag-and-drop tools. The following are some of the device management functions that LENS supports:

- Remotely manage gateway configuration, firmware and software updates and check-ins

- Real-time device, LoRaWAN and cellular traffic and performance information:

   - RSSI, cell power, device logs

   - LoRaWAN packet, join requests, CRC error percentage and RX signal
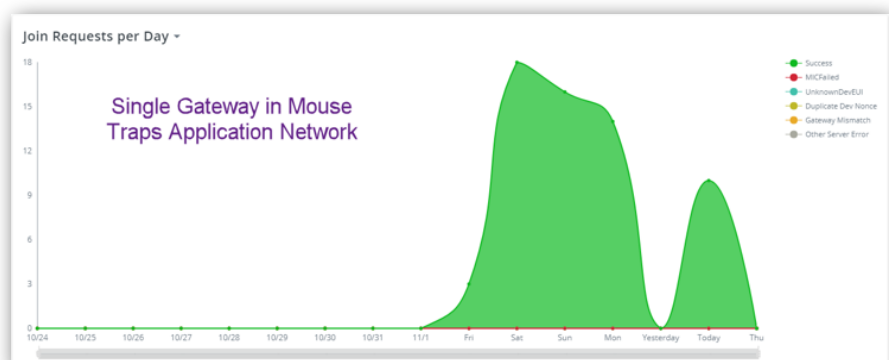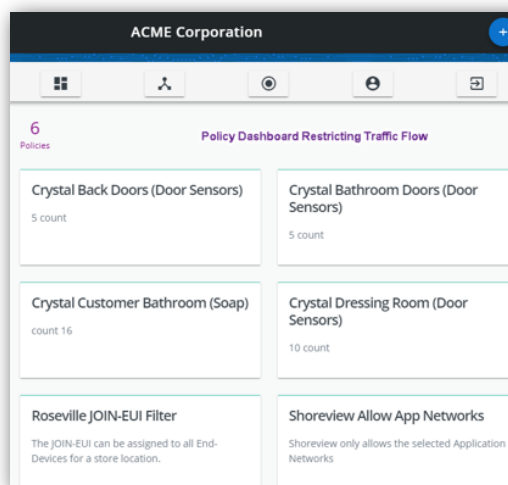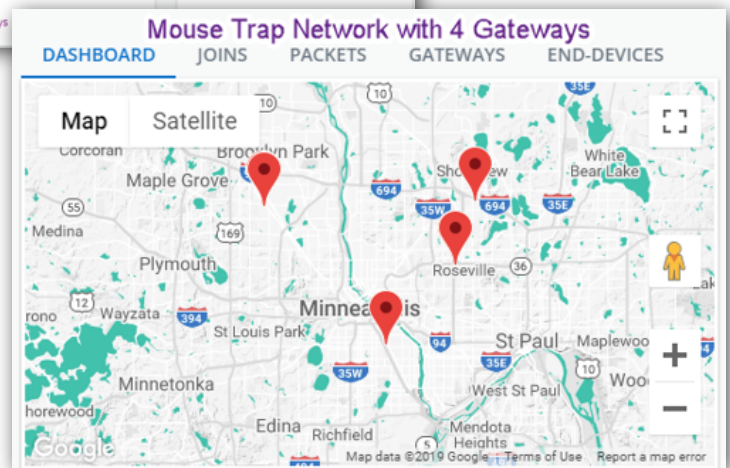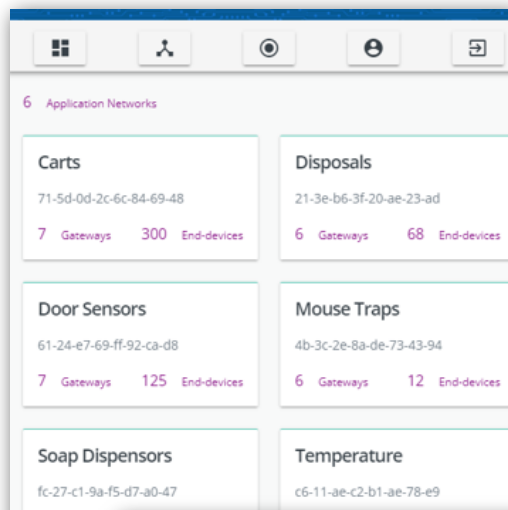
ABOUT MULTITECH

MultiTech designs, develops and manufactures communications equipment for the industrial Internet of things – connecting physical assets to business processes to deliver enhanced value. Our commitment to quality and service excellence means you can count on MultiTech products and people to address your needs, while our history of innovation ensures you can stay ahead of the latest technology with a partner who will be there for the life of your solution.

MultiTech Campus
Mounds View,
Minnesota U.S.A.

WHY MULTITECH?

SUPERIOR QUALITY:

- From our US-based manufacturing plant to our countless product and process certifications, we're committed to the utmost quality in everything we do.

- That's why you can find more than 25 Million MultiTech products performing essential duties for businesses around the globe.

SERVICE EXCELLENCE:

- From our comprehensive portfolio to the extensive reach of our distribution network, MultiTech is easy to choose and easy to buy.

- Thanks to in-house manufacturing and custom design services; broad-reaching expertise and fast, agile development we deliver customization and flexibility you simply can't get anywhere else.

HISTORY OF INNOVATION:

- From the earliest analog systems, to the cellular heart of today's industrial Internet of things to the latest low-power wireless technology, MultiTech has consistently connected businesses in ways previously unimaginable – and has been doing so for 50 years. We have no intention of slowing down.

- We're continuing our legacy of firsts with the world's first commercially deployable LPWA-based suite of communications devices.

MULTITECH®
CREATE • CONNECT • COMMUNICATE

CONNECT WITH MULTITECH