**Hardware-backed end-to-end security for industrial IoT applications**

Note: Each MTAC comes embedded with a 3yr license of ENF (Edge Network Fabric™) services.

Easily connect, secure and manage dispersed, remote and demanding industrial IoT devices and applications on a network invisible to the internet.

	Challenges	Solution: Security Bundle with MultiTech's Conduit® gateway and Xaptum's Edge Network FabricTM (ENF)
Security	Extend IT security from enterprise to IoT networks	Isolated from the internet, with security policies extended from cloud to customer premises
Connectivity	Multiple end device connectivity options	Connect end devices using LoRa/WiFi/Bluetooth/serial/Ethernet and manage as one network
Provisioning	Robust and scalable key management	Zero-touch gateway key provisioning
Management	Onsite maintenance visits	Manage devices, applications and data through a single screen with secure remote access, including network monitoring, zero-trust based identity and access management (IAM), and programmable over-the-air (POTA) updates
Visibility	Compliance and forensic audits	Full end-to-end data audit trail between end devices and the cloud
Reliability	Demanding environments	Industry-leading provider of ruggedized gateways that can handle industrial and outdoor conditions
Affordability	Cost of custom engineering effort for development, management and maintenance	Simple subscription model eliminates the need for dedicated private wireless or wired networks
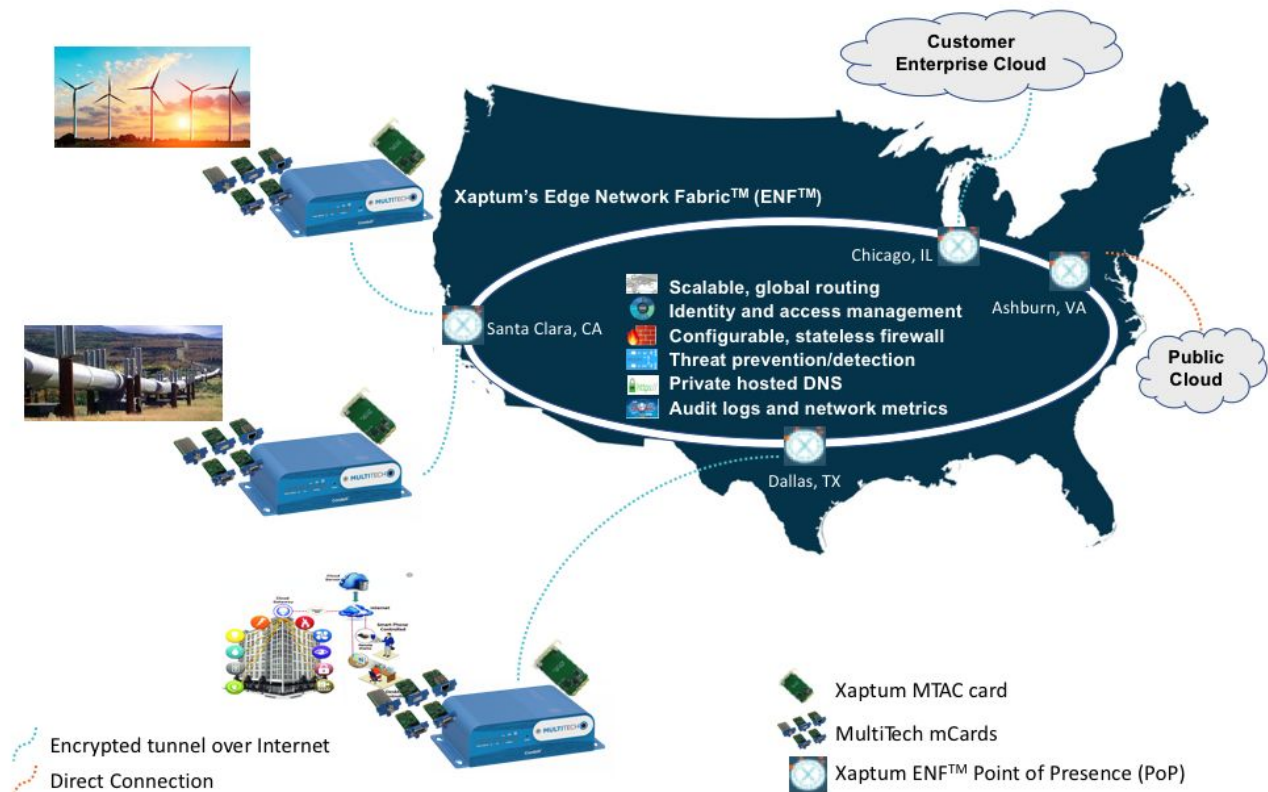
The Xaptum Edge Network Fabric™ (ENF)

The ENF helps you seamlessly secure and scale your edge/IoT applications by providing a multi-tenant overlay network that combines zero-trust network access, zero-touch provisioning and zero-attack surface technologies.

Network Features

- Overlay network is a registered ISP that can offload traffic from any last-mile provider in the US
- Direct routing to the cloud (AWS, Azure, and more)
- Network isolation keeps devices invisible to the public Internet
- Each customer is assigned a unique IPv6 address block assignment on this multi-tenant overlay network
- Permanent, static IPv6 address assigned to each device for easy identity and access management, with IPv4 support for legacy deployments
- Private hosted DNS service
- Customers can define security policy rules mandating which devices can connect to the Internet with stateless firewalls, etc
- Identity and access management (IAM)
- Audit logs and network metrics export
- Command-line interface (CLI) and REST API for configuration
- Proactive prevention of zero-day exploits and misconfigurations

MTAC mCard™ for MultiTech Conduit (XAP-EA-004)

- On-ramp to Xaptum's ENF™ secure overlay network
- Hardware-based security (TPM 2.0) enables scalable zero-touch provisioning
- Open-source drivers pre-packaged for mLinux and mPower
- mCard form factor

MultiTech Conduit® programmable industrial IoT & LoRa gateway

The Conduit® is the industry's most configurable, manageable, and scalable LoRa gateway for industrial IoT applications.

Network connectivity choices to your preferred data management platform include carrier approved 4G-LTE, 3G, 2G, and Ethernet.

Network engineers can remotely configure and optimize their Conduit performance through DeviceHQ®, the world's first IoT Application Store and Device Management platform. The Conduit features Wi-Fi/Bluetooth/Bluetooth Low Energy (BT/BLE), GNSS and two accessory card slots that enable users to plug in MultiTech mCard™ accessory cards supporting their preferred wired or wireless interface to connect to a wide range of assets locally to the gateway.

Available options include a LoRaWAN® mCard capable of supporting thousands of MultiTech mDot™ and xDot® long range RF modules connected to remote sensors or appliances.

Key benefits

- Incredible asset management range - up to 10 miles line of sight, 1 to 3 miles into buildings
- Integration support with a variety of partner and private Cloud Platforms
- 2-way communication over any certified cellular network for cost effective global deployments
- Create differentiated services for your customers via MultiTech's Application Store