

# OFF-NETWORK IOT DEVICES

## THE HIDDEN THREAT TO DATA INTEGRITY

As industries adopt IoT and OT, many devices now run outside traditional networks, often via cellular or low-power wireless connections. These off-network devices are critical for automation and analytics but often lie beyond enterprise security and monitoring. We highlight the risks posed by remote and disconnected devices, the challenges they create for data integrity, and why traditional security often falls short. Discover a new approach that secures even your most remote assets with edge assurance, remote configuration and management, trusted provenance, and a verifiable chain of custody.



## KEY CHALLENGES OF BUILDING AN IOT PLATFORM

Implementing IoT solutions from scratch is costly and risky, requiring extensive development effort, security considerations, and compliance with evolving regulations. Many IoT companies struggle with:



Custom-built IoT stacks take multiple years to develop and require large teams.



New regulations (e.g., EU Cyber Resilience Act, US NIST, ...) demand higher security measures.



Expanding IoT deployments without a robust architecture leads to exponentially increased effort.

## HOW TRIBUTECH SECURES OFF-NETWORK DEVICES

Tributech's IoT middleware platform addresses these challenges head-on by enabling tamper-evident, trusted data flows, even from devices that never touch the corporate network.



Integrated zero-trust security architecture ensures a resilient IoT solution and simplified compliance.



Reduce development time by up to 70% with our secure and scalable IoT middleware.



Easily integrate with any edge and embedded device with our IoT Agent (docker) and IoT C SDK.



Enrolls IoT/OT devices with trusted certificates, letting only authorized endpoints connect & transmit securely.



Connects assets, processes & data into an intelligent network, unlocks deeper insights & value-added services.



Notarizes data at the edge using cryptographic hashes, enabling detection of tampering across all system layers.



Embeds integrity safeguards in devices, enabling verifiable data packets, no need for network tools.

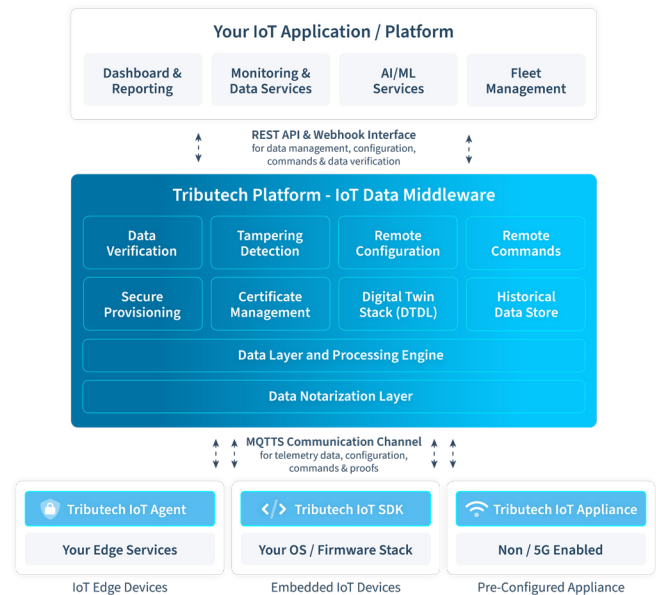


Every data point is notarized, establishing a forensically sound, immutable audit trail from origin to destination.

# TRIBUTECH'S PLATFORM FOR IOT PRODUCT & SOLUTION INNOVATORS

Tributech's IoT middleware acts as a trusted data hub, seamlessly connecting IoT devices, edge computing, applications and AI systems. It enables:

- Standardized data integration across IoT edge and embedded devices
- Adds a security layer to ensure trust in data and device integrity
- Data management backbone by handling real-time data streams & historical storage at scale
- Provides a flexible foundation for scalable IoT applications and digital twin support.



## INTEGRATION INTO ANY EDGE AND EMBEDDED IOT DEVICE

### TRIBUTECH IOT AGENT

The IoT Agent is a containerized solution for seamless IoT and edge device integration with Tributech's secure middleware. It simplifies deployment while enabling data notarization and protocol interoperability.

Supports MQTT, OPC-UA, Modbus, REST, and custom protocols

### TRIBUTECH IOT C-SDK

The IoT C-SDK is a solution for resource-constrained IoT devices, enabling data notarization, integration, and interoperability at the firmware level. It provides a lightweight, scalable way to ensure trusted data from edge to cloud.

Integrates with RTOS, Zephyr, Linux and any custom OS or scheduler

## LEADING COMPANIES TRUST TRIBUTECH TO OVERCOME IOT CHALLENGES

Our customers and partners remove costly bottlenecks, secure IoT platforms from day one, and accelerate deployment—proving innovation doesn't require high risk and overhead.

**3X** FASTER-TO-MARKET

Launch IoT solutions on a secure, scalable foundation from day one.

**70%** LOWER COSTS

Reduce expenses for IoT security, scalability, and data integration.

**90%** REDUCED RISK

Minimize security threats to data and AI services and protect business value.



**BOOK A DISCOVERY CALL [HERE](#)**

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