IoT Connect

Build private IoT networks on demand

With no cost-effective, simple, and fast method of establishing private Internet of Things (IoT) networks, enterprises are forced to use public networks. This creates unnecessary security exposure and limits visibility and control over business-critical IoT deployments. Akamai partners with mobile network operators (MNOs) to integrate security technology in their networks that makes it easy for IT teams to create private IoT networks on demand with better security, visibility, and control.

Business challenge

Cellular networks for IoT have evolved from point-to-point communications into complex ecosystems composed of multiple, often diverse, devices and services. Businesses deploy IoT to improve agility and efficiency, but IoT security hasn't kept up with the pace of innovation. Devices are also often severely constrained; that is, they can't support security clients. This means devices on networks connected to the internet can be targeted by attacks that disrupt essential business processes or compromise vital and valuable data.

Overview

Akamai IoT services delivered with MNO partners enable self-serve, private connectivity with a network-based, clientless solution. Businesses can secure, manage, and control communications among devices at the IoT edge and application services they connect to in the cloud or on premises. IoT networks are isolated from the public internet with Akamai-enabled private APN interconnects to MNOs. They can be developed and deployed quickly, at scale, using built-in provisioning and automation features. IoT teams can provision networks themselves in real time and quickly configure additional security layers.

BENEFITS TO YOUR BUSINESS

- Speeds activation of IoT projects at any scale with self-serve private connectivity using IPsec, GRE, or a virtual agent

- Enables private static IP addresses for simple remote access to IoT devices

- Controls access to domains and provides IP ACLs to improve security

- Equips IoT teams with data controls to manage access times and with data throttling/caps, per zone, for better service and cost management

- Offers 360-degree visibility and business intelligence for all IoT traffic through a portal UI and APIs

Features

Seamless connectivity – Minimize complexity on the IoT edge to enable faster rollout of applications.
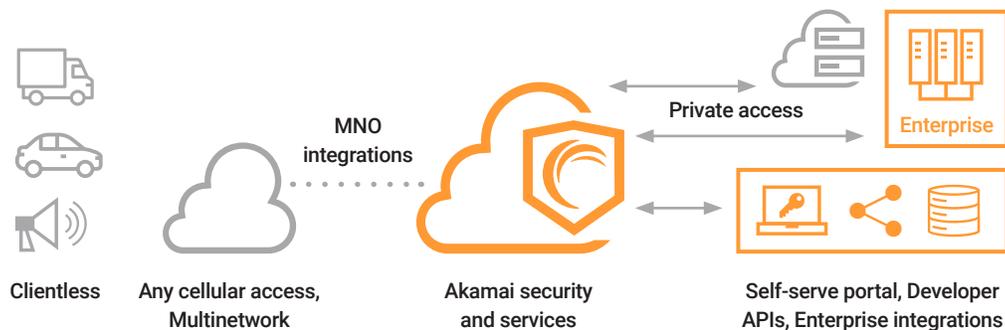
Self-service private network – IoT admins get the benefits of an enterprise-grade private cellular APN for IoT projects, without the complexity of planning, building, and managing one. Securely connect IoT devices to cloud platforms and/or on-premises servers in minutes.

Secure networking – Minimize the risk of cyberattacks from day one with network-based security policies. Create policies to authorize devices permitted in the network and define traffic profiles that block unwanted traffic.

Insights and reports – Control costs through powerful insights and reports. Create usage and alert anomalies to prevent outages and overages. Gain full visibility into data usage patterns with automated alerts, notifications, and cutoff policies.

Scale on demand – Provide scaled pools of private static IP addresses for IoT deployments, and add new devices or networks whenever they're needed. Flexibly manage traffic as IoT application needs evolve without impacting operations.

Enabling private networks on demand for enterprise IoT

Clientless   Any cellular access, Multinetwork   MNO integrations   Akamai security and services   Private access   Enterprise   Self-serve portal, Developer APIs, Enterprise integrations

Akamai mobile security services, delivered with MNO partners, are designed to help organizations become digitally secure and productively connected wherever they are. Businesses get a clientless, secure internet experience on all SIM-enabled devices. Devices can be enrolled at any scale with minimum effort and disruption, without the need for cumbersome hardware or client software.

To learn more, contact your mobile network operator sales team.