ılıılı
CISCO
The bridge to possible

Cisco Solutions for FirstNet®

Secure, reliable connectivity for first responders and critical public infrastructure

Contents

Product overview

A first responder team is on its way to a 911 call location, responding to a natural disaster. On the way they pass through heavily congested roads with a series of traffic lights. How quickly can the team reach the scene? Will they be able to seamlessly talk with each other over the communications network? What if the network is congested due to a massive increase in cell phone use? What happens if help does not arrive in time?

LTE Band 14 is the U.S. nationwide spectrum set aside by the government for public safety and critical infrastructure deployments. With Cisco's FirstNet Internet of Things (IoT) portfolio, the first responder team communicates over the FirstNet dedicated communications platform, providing them dedicated access when and where they need it, allowing them to send and receive data, video, images, and text—without concerns about network congestion. The traffic lights are centrally controlled to allow them to be coordinated in near real-time, clearing the way for the first responder team.

Public safety organizations are increasingly using technology to better respond to public safety issues and keep everyone safe. Near real-time access to information is critical to make fast decisions. The faster you can deliver accurate, robust information, the safer our communities are. Cisco's FirstNet IoT solutions are bringing greater situational awareness to public safety and improving the speed and efficiency of emergency response.

Benefits

- Ruggedized design delivers uninterrupted operations in a highly challenging environment—survives exposure to extreme temperatures, humidity, vibration, and volatile power conditions

- No-compromise, industry- leading security built in at all levels, from physical security all the way to application-level security

- Cisco® IOx application infrastructure framework can effectively process time- critical analytics and generate timely reports without running into bottlenecks further down the network

FirstNet benefits

- Improves the speed and efficiency of emergency response with unthrottled connectivity and priority communications

- Enables secure communications by leveraging the highly available and dedicated core designed to comply with many standard security regulations and needs

- Provides near instant access to information to make fast decisions

FirstNet solution overview

The FirstNet network, a national, seamless, IP-based cellular communications network, gives public safety around the United States dedicated multimedia capabilities using Band 14 on the FirstNet core, along with AT&T's other spectrum bands. FirstNet offers traffic prioritization and available preemption services when needed.

Cisco's end-to-end portfolio for FirstNet

Cisco, an industry leader in networking, is committed to delivering end-to-end FirstNet support through its IoT portfolio. Instead of selling a point product, Cisco has a depth of technology capabilities that enables us to bring together various solutions that allow customers to quickly and easily deploy capabilities for their use cases in public safety. Our FirstNet solutions support priority and preemptive communications for public safety and emergency response.

Cisco's industrial routers provide reliable connectivity for critical infrastructure for law enforcement, fire, emergency medical services, transit, and utility agencies. Cisco offers a cloud management solution for provisioning, monitoring, and upgrading routers that provide connectivity to FirstNet devices enabled with FirstNet SIMs. Cisco's IoT Control Center solution helps ensure a reliable SIM management lifecycle for FirstNet devices.

Portfolio Overview

Figure 1.
Portfolio Overview

Learn more

For more information on our FirstNet portfolio, visit our product pages that include [IR1100](#), [IR1800](#) and [IoT Control Center](#).

Disclaimer: FirstNet® and FirstNet® Ready are registered trademarks and service marks of the First Responder Network Authority.