

Remote Monitoring of Video Surveillance

Using LTE and 5G to securely transmit mission-critical security footage

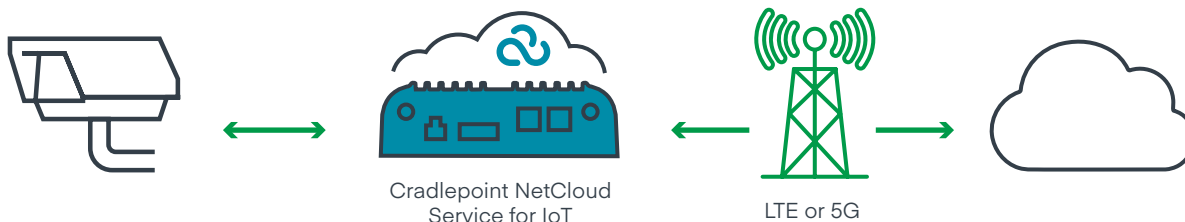
Video surveillance has become table stakes for deterring and detecting suspicious or illegal activity in cities, businesses, campuses, and many other places. Capturing footage from cameras is essential, but the ability to monitor and respond to that information in real time requires constant network connectivity.

Whether an organization's video camera footage is stored on DVRs or a cloud-based service, Internet access is vital — especially when footage needs to be sent and reviewed immediately.



With our switch to Cradlepoint, we're able to continuously upload video from the in-vehicle router. Now, the supervisor can review what happened before officers even get back to the precinct, which as a significant time and resource benefit."

Nick Zajchowski, strategic advisor, Seattle Police Department



Networking Challenges

Unavailable or costly wired connectivity

In many places where organizations need surveillance cameras, either fiber lines haven't been laid or existing wired-line access is too expensive or unreliable. The disparate nature of IoT deployments makes wired links an unrealistic option.

Managing widespread IoT with lean IT

Keeping track of cellular signal strength, latency, data usage, and outages among widely deployed video cameras is unscalable when IT experts aren't physically near the devices. Internet downtime and network issues usually require expensive travel or third-party truck rolls. As precious time ticks away during an outage, footage that could help companies improve safety and security becomes useless.

At-risk IoT information

With potentially sensitive video footage flowing to the data center and/or the cloud from locations all over the map, network security is both challenging and essential. The important data that video cameras capture must be protected from the increasingly sophisticated attacks of IoT-savvy hackers.

Complex deployment and ISP management

Most organizations can't quickly and cost-effectively expand their video surveillance if they're expected to work with a different regionally based ISP in every city. Prices vary too much, and laborious setup makes management more and more time-intensive with each deployment.

Benefits of cloud-managed connectivity for remotely monitoring video footage

Flexible and cost-effective Wireless WAN

Cradlepoint's enterprise-grade IoT routers with an embedded cellular broadband modem allow organizations to send and view video footage as often as they need, with high performance, low latency, and constant uptime over LTE or 5G networks. Cradlepoint NetCloud's WAN analytics allow remote visibility into cellular usage so costs can be controlled, and overages prevented.

Centralized management of cellular broadband connectivity

With Cradlepoint's feature-rich cloud management platform, companies can set up alerts notifying them of WAN outages and signal fluctuations. When a problem occurs, the corporate IT team can remotely determine the root cause — and often fix the problem — before ordering an expensive truck roll. When cameras are connected to LTE or 5G via a Private Cellular Network, IT teams have even more control over security, data management, and network flexibility.

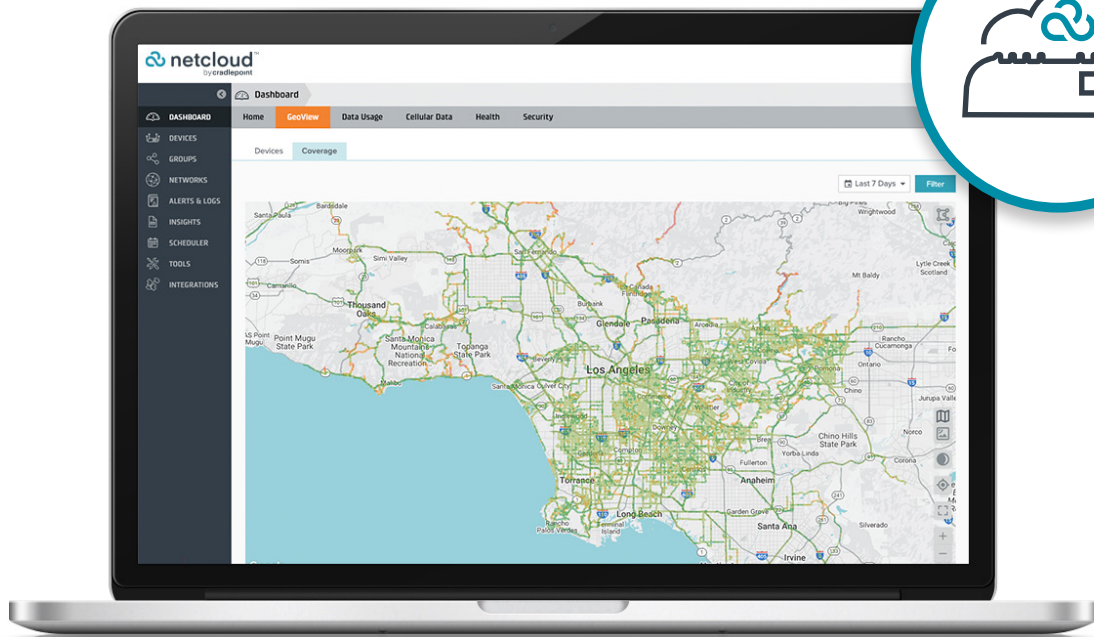
Comprehensive IoT security

Whether an organization's data is headed to the cloud or the corporate data center, Cradlepoint's all-in-one IoT routers provide comprehensive, policy-based security — including a built-in firewall to prevent hacking attempts and the ability to quickly establish an agile, intuitive VPN.

Zero-touch deployment with LTE and 5G network coverage

Cradlepoint's cloud-managed IoT solutions enable point-and-click pre-configuration and plug-and-play router setup that complement growing IoT footprints. Original equipment manufacturers (OEMs) will find Ethernet, serial, Wi-Fi, and Bluetooth connectivity options available on Cradlepoint's IoT routers particularly ideal, as this ensures their integrated systems can accommodate connections from other sensors or environments in the final environment. Using one or two network operators for nationwide LTE or 5G availability reduces complexity, stabilizes monthly costs, and decreases time spent managing third-party relationships.

Cradlepoint's NetCloud Service for IoT



Learn more at cradlepoint.com/products/iot