

# Remote Monitoring of Video Surveillance

## Using LTE to Securely Transmit Mission-Critical Security Footage

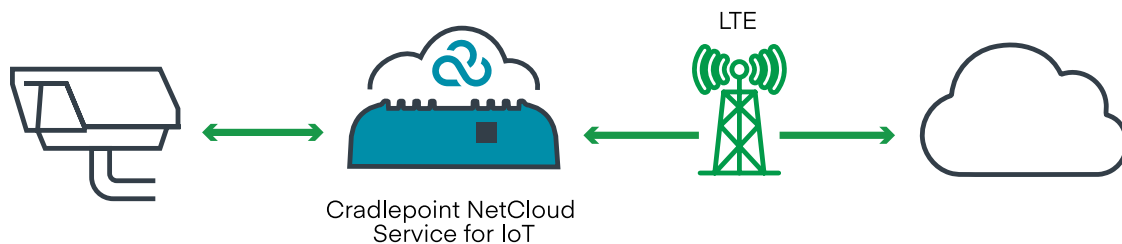
Video surveillance has become table stakes for both deterring and detecting suspicious or illegal activity in cities, businesses, campuses, and many other places. Capturing footage from cameras is essential, but the ability to actually monitor and respond to that information requires constant network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

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



***When you're implementing a public safety system and the local police department will rely on the visuals of surveillance cameras as part of its enforcement solution, you have to be sure the cameras are fault-tolerant."***

**Julie Cagliostro**, Manager of Information Systems,  
Village of Bronxville, N.Y.



## Networking Challenges

### Unavailable or Unaffordable 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 are located hundreds if not thousands of miles from the devices. Internet downtime and related network issues usually require expensive travel or third-party truck rolls. As precious time ticks away during an outage, important footage that could help companies protect assets or first responders save lives becomes ineffectual.

### 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 & ISP Management

Most organizations can't quickly and cost-effectively expand their video surveillance if 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 LTE for Remotely Monitoring Video Footage

### Flexible & Cost-Effective Wireless WAN

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

### Remote Management of LTE 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.

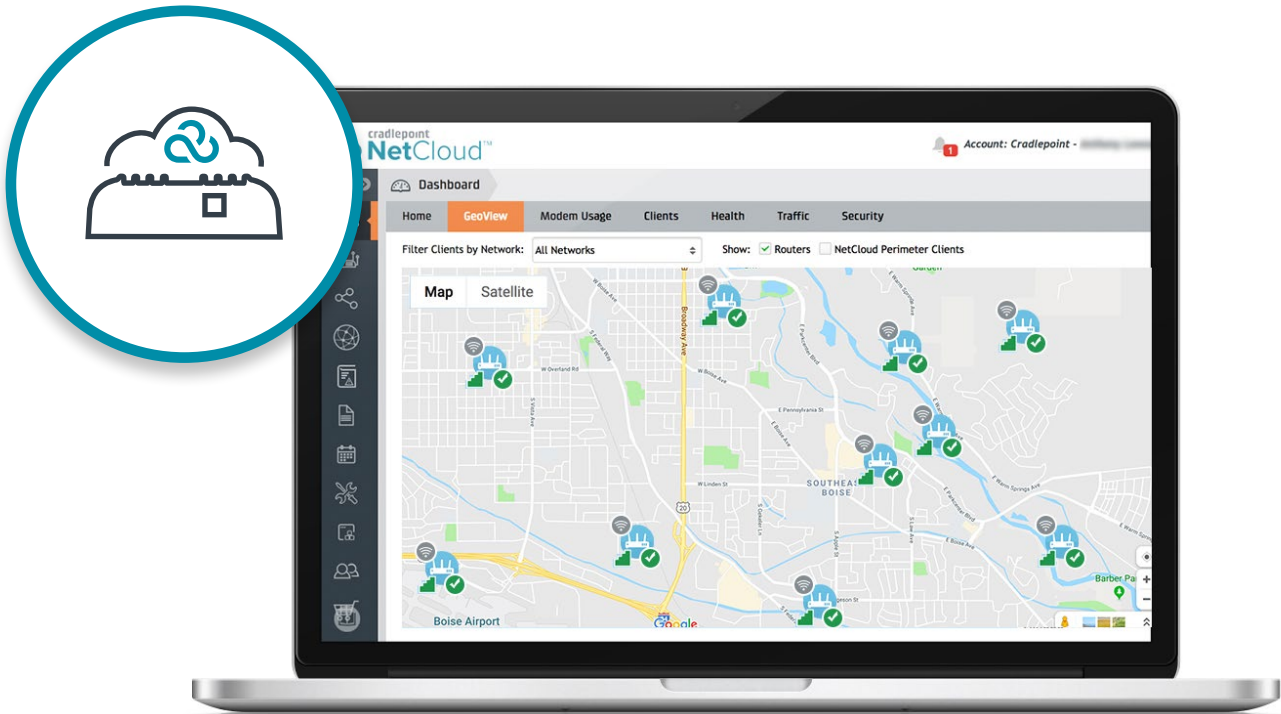
### Comprehensive IoT Security

Whether an organization's data is headed to the cloud or the corporate data center, Cradlepoint's all-in-one IoT routers provide comprehensive security — including a built-in firewall to prevent hacking attempts. Also, IT teams can set up a VPN or a private overlay network, which uses Software-Defined Perimeter technologies to isolate and hide information over the Internet.

### Zero-Touch Deployment with Nationwide Cellular Coverage

Cradlepoint's cloud-managed IoT solutions that enable point-and-click preconfiguration and plug-and-play router setup are conducive to rampant growth of a company's IoT footprint. Using one or two network operators for nationwide LTE availability reduces complexity, stabilizes monthly costs, and reduces time spent managing third-party relationships.

## Cradlepoint's NetCloud Service for IoT with LTE Routers



Learn more at [cradlepoint.com/iot-networks](https://www.cradlepoint.com/iot-networks)