

# Remote Monitoring of Construction Site Video Cameras

## Using 5G and LTE to securely transmit business-critical site footage

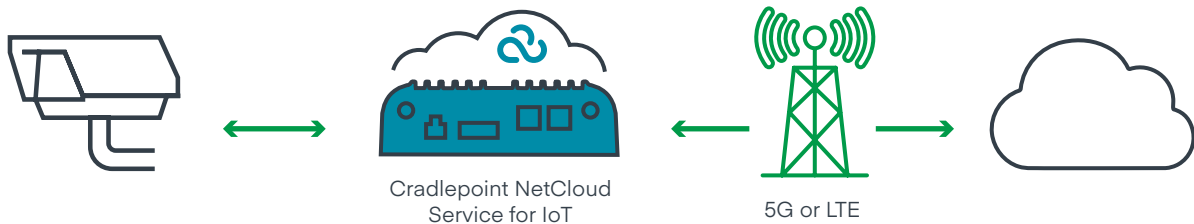
To adequately monitor and protect construction sites, materials, and offices, video surveillance must be available 24/7 year-round. Not only do strategically placed cameras deter theft, but they're also useful when conducting inspections and monitoring safety compliance and autonomous technology.

Capturing footage from cameras is essential, but the ability to withstand the elements while monitoring and responding to that information in real time requires ruggedized equipment and 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, from anywhere.



***Our construction sites are rugged and technically demanding. The Cradlepoint 5G solution is just what we need: high-performing and enterprise-grade, top to bottom.***

**Christian Neyle**, IT manager, Taylor Construction



### 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 bandwidth requirements and 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 if 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 construction sites all over the map, network security is both challenging and essential. The important data that video cameras capture must be protected from 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 ruggedized, enterprise-grade cellular 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 5G or LTE networks. Cradlepoint's NetCloud WAN analytics allow remote visibility into cellular usage so costs can be controlled and overages prevented. Using one or two network operators for nationwide cellular availability reduces complexity, stabilizes monthly costs, and decreases time spent managing third-party relationships.

### 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 5G or LTE via a private cellular network, IT teams have even more control over security, data management, and network flexibility.

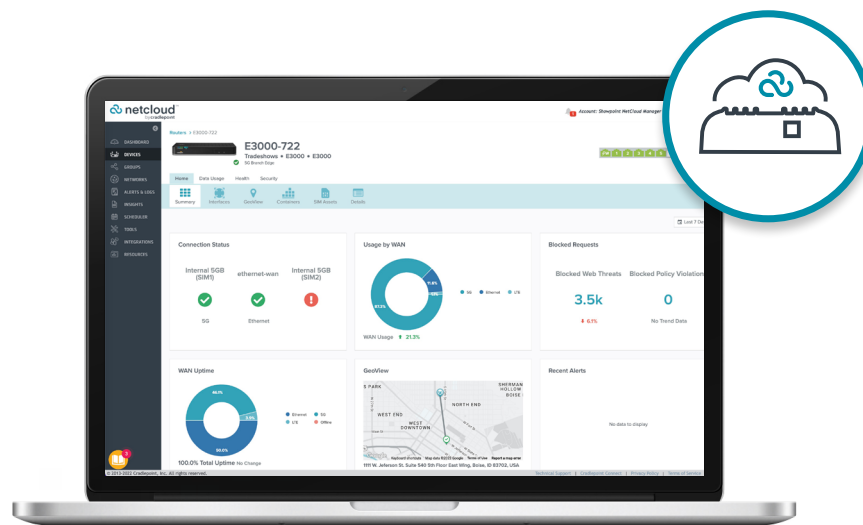
### Comprehensive security

Whether an organization's data is headed to the cloud or the corporate data center, Cradlepoint's all-in-one cellular 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 5G and LTE network coverage

Cradlepoint's cloud-managed Wireless WAN solutions enable point-and-click pre-configuration and plug-and-play router setup that complement IoT footprints that may move from one location to the next. 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.

## Cradlepoint's NetCloud Service with Wireless WAN routers



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