



**Solution:** NetCloud Service for IoT ■ **Industry:** Security ■ **Use Case:** Video Surveillance

# From Edge to Cloud, Company Securely Sends Video Footage through LTE Solutions

## Cradlepoint’s Multi-Carrier Edge Solutions Keep LiveView Technologies’ IoT Systems Connected with Flexibility & Centralized Management

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**Steve Lindsey**, Chief Technology Officer and Chief Information Officer, LiveView Technologies

### Success Story Highlights

**Challenge** — LiveView Technologies’ end-to-end video surveillance and IoT interoperability platform includes an abundance of bells and whistles that deter illegal or inappropriate behavior, and that help the company manage everything that goes on behind the scenes. However, securely and cost-effectively sending footage between edge devices and the cloud can be tricky.

**Solution** — LiveView Technologies uses Cradlepoint NetCloud Service for IoT, delivered through purpose-built wireless edge routers that feature built-in LTE. Through a single-pane-of-glass experience, LiveView uses NetCloud Manager to centrally track data usage on the LAN at thousands of sites.

**Benefits** — Being able to send data without fear of losing Internet access and to monitor, analyze, and respond to customers’ data usage trends adds even more value to LiveView Technologies’ dazzling IoT solution.

## Background & Challenges

LiveView Technologies (LVT), the leading cloud service provider of enterprise-class video and IoT management and data acquisition, delivers everything a company needs to remotely monitor and discourage theft and other dangerous activities. LVT's end-to-end, cloud-based video surveillance solution includes advanced hardware, proprietary cloud+edge software, fully managed and secure infrastructure, and intelligent system health monitoring and maintenance. Features include automated alerts; flood lights; thermal camera detection; and two-way speaker communication, which enables the company to audibly address a would-be thief during an attempted robbery.

Reliable network connectivity is an essential aspect of LVT's video surveillance solution. When the company began investigating cellular-based broadband, there were several challenges that needed to be addressed, including:

**Routing Needs** — IoT gateways that lack basic routing capabilities would fall short of LVT's simple but vital data transfer needs.

**Cost Concerns** — With thousands of these security camera packages being sent out to customers all over the map, LVT was conscious of the price of its LTE routers. Also, because LVT manages its customers' cellular data plans, the company was interested in any features that could help minimize its customers' data usage and prevent overages.

“Choosing a wireless edge solution always comes back to the combination of a robust feature set with an attractive price point. Cradlepoint delivered both,” said Steve Lindsey, Chief Technology Officer and Chief Information Officer at LVT.

**Size of LTE Solution** — It's difficult to find an LTE solution that has advanced features but also is small enough to fit into LVT's compact video surveillance hardware unit.

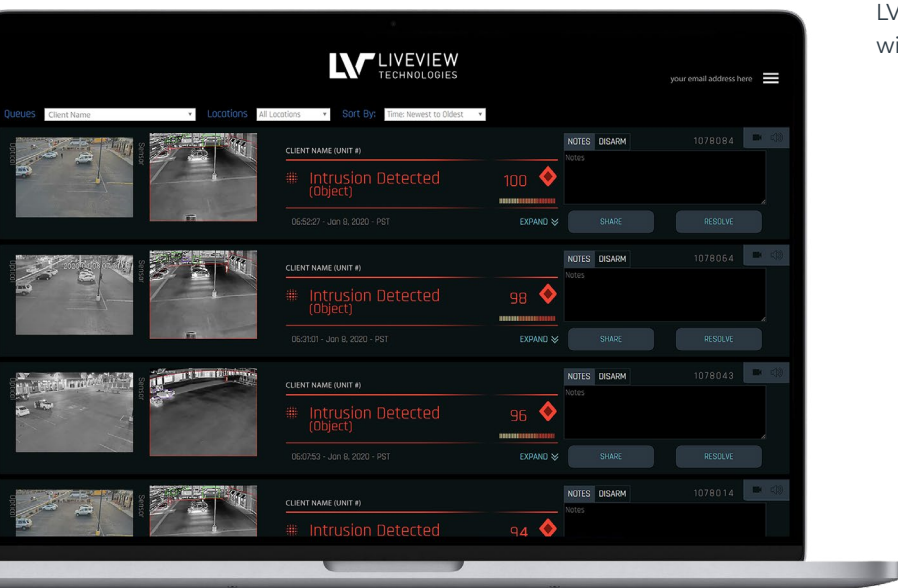
## Solution

For reliable, flexible connectivity that keeps its robust video surveillance solution connected to the corporate network 24x7, LVT uses Cradlepoint NetCloud Service for IoT, delivered through purpose-built, LTE-enabled wireless edge routers that are mounted inside the company's sleek hardware units. LVT has deployed thousands of Cradlepoint solutions that are connecting IoT devices throughout the U.S.

## Benefits

### Highly Available & Flexible Connectivity for High-Quality Video Streaming

Cradlepoint's dual-SIM modems allow LVT to remotely switch any of its IoT routers from one cellular carrier to another, in the event that performance conditions change or the devices themselves must be moved. Through NetCloud Manager, LVT can make this change with point-and-click simplicity — without sending a technician to the site.





### Key Routing Capabilities in Compact Solution

Cradlepoint solutions do port forwarding built around firewall rules, which is essential for the secure data transfer capabilities that LVT needs from its wireless edge solution. Even basic routing functionality is rarely found in routers that are small enough to fit in spots like LVT's compact video surveillance systems.

### Cost Control with Centralized Management of LTE Data Usage

Cradlepoint NetCloud Manager enables LVT to centrally monitor LAN client usage at the network, group, or site level.



**Cradlepoint NetCloud Service delivers client analytics that help us answer questions such as ‘Which clients are connecting to my network’ and ‘How much data is a certain device on a particular LAN actually consuming?’ ”**

**Steve Lindsey**, Chief Technology Officer and Chief Information Officer, LVT

With thousands of surveillance solutions deployed all over the U.S., LVT benefits from the ability to accomplish router and modem firmware updates en masse with the click of a button.

