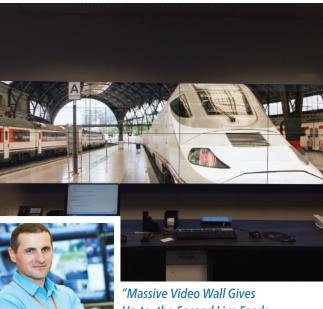# Major Rail Company Upgrades Command Centre with MuxLab's IP-Based 4K Video Wall

## Success Story

*"Massive Video Wall Gives Up-to- the-Second Live Feeds for Remote Monitoring."*

Monitoring remote railways in varied locations can be a challenging endeavor. But with a new live streaming 4K video wall installed at the Command Centre based in Calgary, remote monitoring is more accessible today than ever before. With sixteen 55-inch displays stacked in an 8x2 configuration, this massive video wall provides a bird's eye view of train locations with the ability to zoom in anywhere needed.

Cameras are installed alongside MuxLab's processing equipment to transmit live video over IP to all video wall displays for 24/7 access. MuxLab's Video Wall 4K over IP PoE Extender Kits (model 500759) connect many HDMI sources to many displays via a 1Gig Ethernet Switch. With this solution, 4K video can be delivered long-range to create a video wall of nearly any user configurable size. Each source connects to a transmitter, which delivers 4K through the Switch to the receiver connected to a display. Ethernet connectivity enables anytime/anywhere viewing free from traditional cabling constraints.

*"It's like a mini-NASA in there now,"* said Evolution Presentation Technologies' Account Manager, Chris Meaney, who oversaw the system integration. *"The video wall spans the entire wall so it's ultimately very effective for the operators to keep their eyes on the areas they need to monitor daily."*

By electing to use an IP-based solution, the entire installation was more cost-effective and easier to implement. They were able to avoid traditional cable-based solutions for transmitting 4K HDMI such as fiber which can be very costly to implement. The biggest challenge was finding the correct Ethernet Switch.

*"We went to a 48-port managed PoE switch because if you use a more cost-effective switch, your performance can suffer. You can't go low-end in this kind of mission-critical installation. We needed a heavy, reliable system and that's what we went with,"* added Meaney. *"MuxLab's AV over IP solutions have proven to be exceedingly reliable; they're not only easier to install but they're also ultimately more cost-effective."*

With this system now in place, less manpower is required, and a more-effective means of remote surveillance is achieved.

**About MuxLab:** MuxLab is a leading designer of value-added connectivity solutions for the pro AV and broadcast markets. Since 1984, MuxLab has supported its main mission to provide customers with innovative, dependable and industry leading designs that are engineered in Canada. A forerunner of the AV over IP evolution, MuxLab continues to deliver comprehensive, game changing IP-enabled systems for both commercial and residential installations of all shapes and sizes.

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