

APPLICATION NOTE

Ciena's 3931 Improves Oversight of Field-Training Exercises

Ruggedized, Cost-effective, Real-time Video via Carrier Ethernet Services

The daily activities at military and defense training facilities and other outdoor locations can be difficult to monitor and manage. Accidents inevitably happen. Military officials and other command and control personnel need help to better monitor what takes place in the field to improve training and reduce the potential for accidents or injuries during exercises.

Most military training facilities in the U.S. and abroad already use high-performance fiber-optic connectivity to securely link locations around the globe. However, that connectivity is typically limited to enclosed facilities because network equipment is not hardened enough for environmental conditions such as wind, rain, and extreme hot or cold weather. When out in the elements, tactical communications and observations typically still rely on 'spotty' coverage from cell phone cameras or radios, which are used to relay bits of information about what is taking place in the field.

What if defense and military training facilities, along with other government organizations, could extend full-performance network connectivity to training ranges and other outdoor activities to provide cost-effective, persistent surveillance?

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Offering qualified command and control office personnel the ability to gain access to live video feeds of tactical maneuvers as they happen would increase accountability, reduce training accidents, and aid accident reconstruction. With the right tools, officers and other personnel would be able to supervise outdoor activities in real time on firing ranges, in paratrooper drop zones, and during pilot training exercises.

Ciena's 3931 Service Delivery Switch solution makes it possible to deliver full performance connectivity to tactical environments.

Benefits

- Features environmentally hardened and physically secure enclosure and electronics (-40°C to +65°C)
- Provides Carrier Ethernet with two 1GbE/10GbE NNI ports
- Offers IEEE 1588v2 and Synchronous Ethernet
- Features on-board RFC 2544 performance benchmark testing capabilities
- Offers flexible mounting options, including a pole mount, H-Frame mount, and outdoor or indoor wall mount