Silvus Delivers Multiple High Fidelity Video Links Within a Mesh Network to Provide Constant Surveillance around the Honda Center

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Figure 1. Honda Center Stadium in Anaheim, CA

Background

The Honda Center is an indoor arena in Anaheim, CA that can house over 17,000 people and is home to the NHL's Anaheim Ducks. The Honda Center hosts a broad range of events including sports, concerts, and political rallies.

The Challenge

Due to the magnitude of the events hosted at the Honda Center, there is a need for fast-deployable surveillance systems to monitor the stadium before, during, and immediately after events. The requirement was to deploy a four node mesh-networked surveillance system to cover the stadium and surrounding areas. The system would need to be deployed in less than 20 minutes without the need for prior planning.

Silvus Solution

Silvus arrived at the Honda Center without any prior knowledge of the stadium or the surrounding area. Using four SC3500 radios, Silvus was able to provide full and mobile mesh surveillance of the stadium area consisting of 3 stationary nodes and one mobile "patrol" node in less than 20 minutes. The setup comprised of 3 cameras with 1Mbps video per stream and 3 displays showing feed from all cameras. The four node setup is as follows:

1. Video Source 1
2. Video Viewer 1
3. Video Source/Viewer 2
4. Mobile Video Source/Viewer 3

Figure 2 shows the positioning of each stationary node. The green and red shaded areas correspond to the area covered by the mobile node with full video connectivity and no video connectivity, respectively.

Figure 2. Node Deployment and Mobile Coverage

Figure 3 shows a snapshot of the Silvus network management software with the mobile node located at point 1 in Figure 2. The signal-to-noise ratio is indicated for every link in the network.
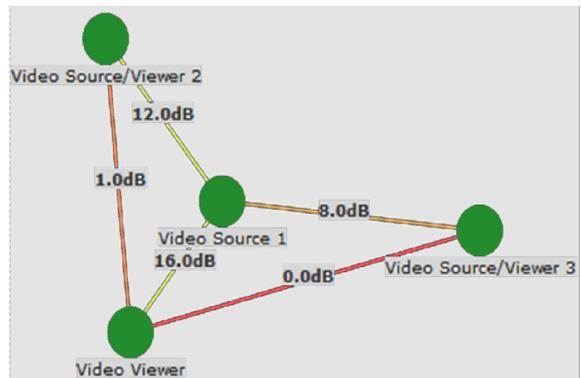

Figure 3. Silvus Network Management Software Provides Real-Time Network Status Information

User Feedback

"Of the many radios we have evaluated none have provided the fidelity, throughput, range, and on-the fly rapid deployment capability of the Silvus solution; this is a very well-engineered solution" – Manager of Systems Engineering Services

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