Siklu SUCCESS STORY

DataGear INDUSTRIAL DATA SOLUTIONS

The Port of LONG BEACH

Port of Long Beach Upgrades its Surveillance Network's Wireless Connectivity with Siklu's Millimeter Wave solutions

The Challenge

Provide reliable wireless connectivity to video surveillance cameras installed throughout the port, an area especially prone to wireless interference due to high wireless activity, large shipping containers and heavy equipment used.

The Solution

EtherHaul-600 Series, EtherHaul-1200 Series, Etherhaul 2500 Series

The Results

Siklu's radios were successfully deployed and increased throughput by a factor of 10, enabling the deployment of new HD cameras due to the capacity increase.

Background

The Port of Long Beach, located in Southern California, is the second-busiest container port in the United States and serves as a major gateway for trade between the United States and Asia.
The Port of Long Beach Security Division, was awarded a federal grant to fund security-upgrades at the Port. The multi-phase project included installing 54 links as part of the first phase, which will also enable an upgrade to HD cameras because of the capacity boost.

Business Challenge

- Upgrade busy port's security network despite heavy interference from wireless use, large shipping containers and heavy equipment used in the port.

- Since the wireless links will be connecting security cameras, reliability of the video stream is key

- Deploying large amounts of links relatively close together, need to make sure there is no interference from adjacent links

- Increase capacity to allow for connectivity of HD video cameras

- The wireless network is expected to scale easily in the next phases of the security network's upgrade

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Deployment/System Integration

The multi-phase project included installing 54 links as part of the first phase. DataGear Inc. was awarded the contract to upgrade the Port of Long Beach's existing wireless network to Siklu millimeter wave technology. Siklu's solution delivers x10 throughput and the new wireless network will enable the deployment of HD cameras due to the additional bandwidth capability.

"Wireless interference is especially of concern in a port environment," said Lee Coffey, President and Founder of DataGear, based in Santa Ana, Calif. "Ports are one of the most complex areas to deploy a wireless surveillance system because of the high level of wireless activity taking place, size of shipping containers and the heavy equipment being used to move shipping containers. That's why it was important to install a millimeter wave technology from Siklu because its radios are reliable, interference-free and provide future-proof capacity."

Siklu's multi-gigabit radios were selected to upgrade the current wireless solution due to a number of unique capabilities; High bandwidth, required by the multiple HD stream cameras, ERPS redundancy to ensure 24/7 video coverage, and small and aesthetic form. Radios from Siklu ensure a high video quality performance in an interference free environment. Siklu radios were selected for this project because they also provide AES encryption, an advanced and unbroken encryption standard which provides added security of the video data.

In Summary

"We are proud that Siklu has been selected as the wireless connectivity partner for the security project with the Port of Long Beach," said Zeev Farkash, VP Global Sales at Siklu. "Siklu's millimeter wave radios can adapt to the most challenging and secure environments, including a busy port, which is a testament to reliability and security of the solutions we offer to the market."