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Environmental Sustainability
Specialized
IoT Specialized
Select Integrator
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Smart Ports

Your best choice for RF and Wireless Engineering Solutions

AT A GLANCE

Major international Port and Terminal handling 2 million TEU's per year. Upgrades to Wireless Fibre with Cisco and Genwave.



Genwave Technologies



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CHALLENGES



Major international Port and Terminal handling 2 million TEU's per year. Port grows in segments separated by residential areas. Network needs to grow with the port, however installing fiberoptic backbone cabling is cost-prohibitive and/or not possible due to land/zone issues.

OBJECTIVES



- Large ports have many sites that span kilometers of waterfront. These sites are not always connected/can be separated by parks and residential areas.
- Genwave was tasked with connecting the enterprise networking non-carpeted spaces and Industrial IoT devices without the use of physical cabling runs between nodes.

SOLUTIONS



- Genwave selected Cisco Ultra-Reliable Wireless Backhaul (CURWB) as the ideal solution.
- They were able to wirelessly connect nine sites to the core network over a distance of 2.5 kilometers providing fibre-like connectivity of up to 500Mb/s throughput, < 5ms latency and zero packet loss.
- The port's CURWB system is rugged and able to operate continuously through harsh conditions while providing secure connectivity that will continue to grow with the Port.

BENEFITS



1

Private, Secure, Expandable Ultra-Reliable network connectivity.

2

Able to operate on unlicensed RF spectrum no associated carrier fees like LTE). High speed rugged/industrial rated backhaul.