

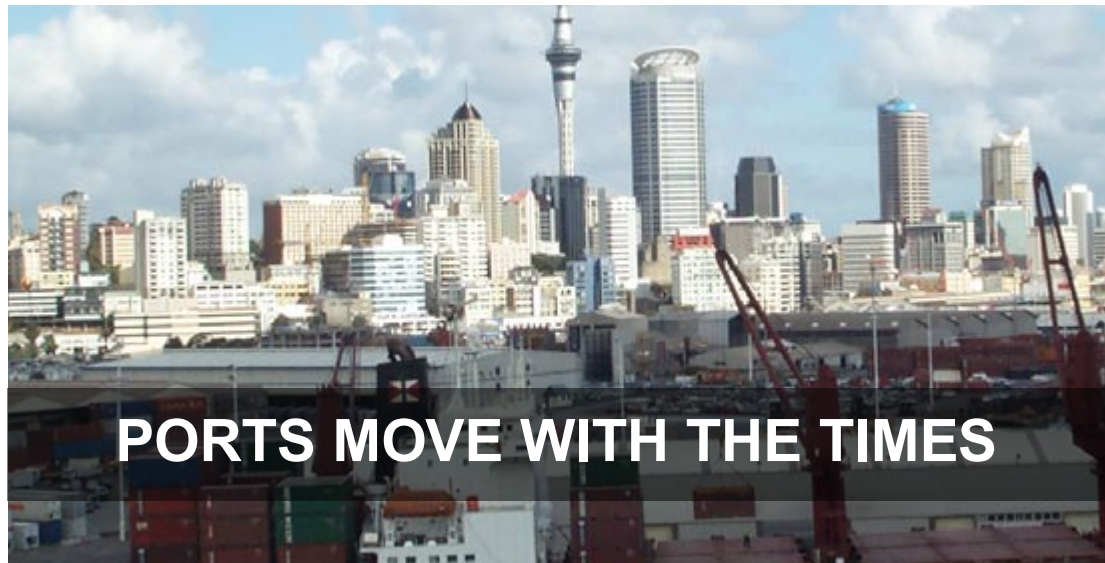
**KEY BENEFITS**

WIRELESS | LAN  
operating environment

INCREASED | ACCURACY  
and productivity

INCREASED | UTILISATION  
of equipment

ROBUST | INDUSTRIAL  
strength computing capability



Ports of Auckland is New Zealand's largest maritime gateway for trade. 68% of imports by value and 33% of exports by value go through the port. Axis Intermodal, a division of Ports of Auckland, is New Zealand's largest terminal operator and the third largest in Australasia. Container volumes in 2002-2003 financial year were a record 649,600 TEUs.

Axis Intermodal places great emphasis on the use of technology to provide swift, smooth processing of containers to drive customer service and operational efficiencies. The use of radio frequency data communications between host systems, straddle carriers, and high reach forklifts was implemented as early as 1990 giving Axis Intermodal the ability to drive equipment utilisation, productivity, and accuracy benefits by deploying specialist application software. However, by the year 2000, the original system that had become integral to operation of the port was in need of replacement.

Installing an RF system into the port environment presented an interesting challenge - the area to cover is several acres in size and container stacks create deep voids where it is hard to get radio signals to penetrate. Interlogic solved the challenges with 15 access points mounted on 30-metre high light towers. Each access point provides a "cell" of wireless LAN coverage within the port and the access points are connected to the local area network using wireless-bridge links.

Ports of Auckland now have an effective wireless LAN operating environment to help them drive future growth.

**FEEDBACK**

"The design, installation, and commissioning of our replacement RF system was very challenging for us and the system suppliers. With the help of Interlogic and LXE we have worked through all of the issues and we are very proud of our state-of-the-art standard based wireless LAN infrastructure. "

Roger Fogo, Manager AXIS INTERMODAL INFORMATION SYSTEMS

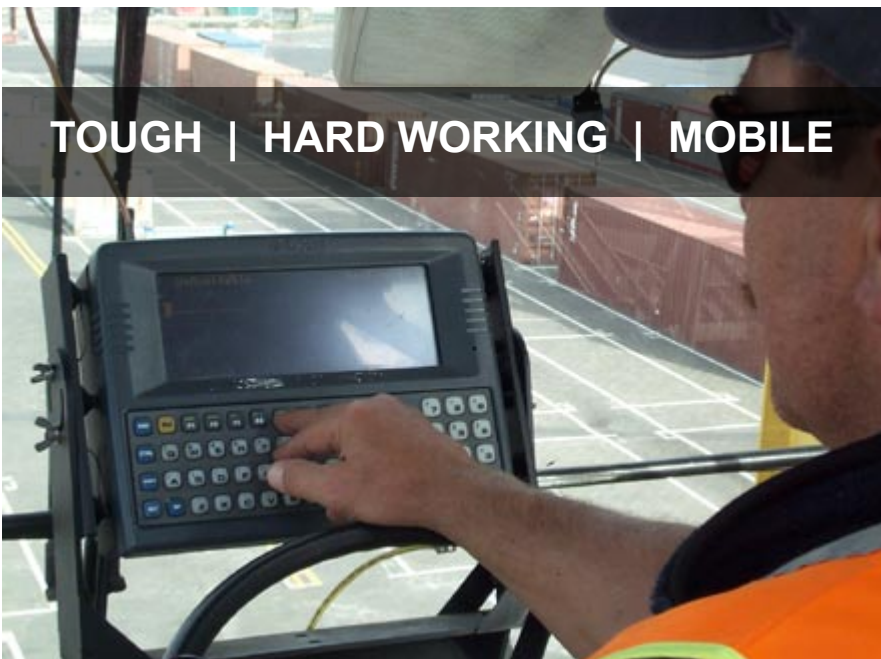




## INDUSTRIAL STRENGTH EQUIPMENT

### RUGGED COMPUTING POWER SPECIALLY DESIGNED FOR INDUSTRIAL APPLICATIONS

Interlogic are also responsible for supporting the 50 LXE VX1 vehicle mounted computers that are installed in the straddle carriers and high reach forklift trucks. The LXE VX1s have integrated wireless LAN adaptors and antennas for communicating with the host computer via the wireless LAN. They provide the equipment operators with a high brightness computer display and a large backlit keypad for receiving instructions and confirming movements. Tough enough to withstand extreme temperatures, moisture, vibration and dust, the VX1 mobile computers provide industrial strength mobile computer capability throughout the port.



## INTERLOGIC TAKES CUSTOMER SUPPORT TO NEW HEIGHTS

The light towers at Ports of Auckland are the tallest structures in view. They dwarf the container stacks below them.



Despite the 30 metre climb, Interlogic utilised these towers for the strategic location of the wireless LAN's access points - an integral part of Ports of Auckland's container operation.

## ABOUT INTERLOGIC

First and foremost, the team at Interlogic are logistics people and they look at your business from a logistics perspective. Everyone from their software developers to their wireless specialists spend time on the warehouse floor so they have first-hand knowledge of the challenges your business faces.

A 100% owned New Zealand company, Interlogic has 18 years experience designing and installing intelligent logistics systems in the New Zealand Market. These include industrial strength wireless systems, warehouse management systems, and advanced material handling equipment.

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