



Anywhere

SUCCESS
STORY

Busan Newport

24/7 Mobile and Wireless Access
Video Surveillance for Sea Ports
Monitoring & Accident Prevention

Overview

The **Busan Newport** (Korean: 부산신항; Hanja: 釜山新港) is situated at the South-Eastern tip of the Korean Peninsula. It is the primary and largest port in Korea, serving as a major gateway connecting the Pacific Ocean and Eurasian continents. It is also the 6th busiest container port¹ in the world.

The Busan Newport is developed, managed, and operated by the **Busan Port Authority** (BPA). The BPA is planning and managing all projects including waterside and landside infrastructure, operation safety, port, and terminal facilities, property management, and business conditions of the port. Since port operations entail many risks and incidents such as collisions, groundings, oil spills, truck accidents, and injuries, the port facility and staff safety and security is top priority.

The BPA required to extend the CCTV surveillance coverage for improved maritime management and safety. Together with our partner Barun Technologies **Anywhere Networks** deployed a wireless Smart Mesh Ring network, extending the existing wired network. It connects twelve high-definition IP cameras in a wireless backbone and also provides WiFi connectivity for secured mobile devices to access the "Ship Collision Prevention System" for remote video surveillance monitoring at the Busan Newport. This enables port operators to access video feeds easily on mobile devices from anywhere, anytime, for tracking and monitoring vessels and anchor status and activities.

Reference:

1. The JOC Top 50 Global Container Ports 2018, https://www.joc.com/port-news/top-50-global-port-rankings-2018_20190809.html Aug 09, 2019

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Customer

Busan Port Authority (BPA)



Partner

Barun Technologies



Deployment Location

Port of Busan,
Busan, South Korea

Application

Wireless and Remote Video
Surveillance Monitoring

Product Deployed

Anywhere Network Node
X20 Series

The Challenge

- Difficult and costly to extend existing fiber optic cabling
- Uninterrupted 24/7 video surveillance with zero downtime
- Real-time monitoring and status updates of vessels approaching the port



The Solution

- Creating a six nodes **smart wireless ring network** extending the existing fiber cabling network between locations P3 and P4 (see picture above)
- A **total of 9 km wireless links** with longest wireless link of 3.2 km using X20 Anywhere Networks Nodes
- Transmit video data from 12x4 megapixel IP cameras for live viewing on mobile devices and 24/7 recording with **zero interruption**

The Benefit

- Enable port operators and security personnel to live view video on mobile devices from anywhere 24/7 to increase work efficiency and maintain continuous surveillance of vessel activities for port safety and security
- Reduce risk of maritime accidents caused by groundings, collisions, and anchoring failures
- Overcome limitations of network distance and cabling re-deployment in critical infrastructure
- The scalable smart wireless network is designed to be expandable for wider coverage as the demands for additional equipment and applications grow. The flexible communication network already supports a growing use of more handheld mobile devices in the port area.

Anywhere Networks

Anywhere Networks is a leading Wireless Mesh Technology company offering scalable, high-capacity and secure network solutions and services for Smart and Safer City Applications with a focus on public safety, Internet of Things (IoT) connectivity, video surveillance, transportation networks and industrial environments for provinces, governments, industrial and enterprises. **Anywhere Network Node A-NN** is our flagship product line of ultra-high performance industrial-grade wireless products with full mesh capabilities designed for flexible and expandable deployments regardless of physical constraints. The entire network is managed by **Anywhere Node Manager A-NM**, a Provisioning and Centralized Network Management Software and Platform of all-in-one dashboard for configuring, monitoring, and managing AN network and devices.