



**Automating operations
& efficiency for one of
the world's largest
ports of call**



Integrated monitoring of crane and wharf operations to enhance security & efficiency

OVERVIEW

As one of the leading global port groups, PSA participates in around 40 terminals in 16 countries across Asia, Europe and the Americas with flagship operations in PSA Singapore Terminals and PSA Antwerp. As the port operator of choice in the world's gateway hubs, PSA is “The World's Port of Call.”



CHALLENGE

With over 35 million containers passing through its port every year, PSA was struggling to find an efficient way to monitor their entire wharf and crane operations. In response to these problems, the team at PSA wanted integrated video surveillance to monitor its crane and wharf operations in a single view.

SOLUTION

N3N delivered a centralized system for monitoring wharf and container operations, integrating live video, wharf operation systems, live maps and other data sources, enabling the Port of Singapore to automate container loading and unloading processes to achieve greater speed and efficiency.

OUTCOMES DELIVERED

- Consolidated view of disparate systems and video feeds.
- Automated container tracking and faster container loading and unloading for increased operational efficiency
- Enhanced wharf security operations management

CENTRALIZED CRANE & WHARF MONITORING



- Integrated number recognition cameras onto cranes
- Monitors live cameras on cranes and throughout wharf
- Integrated live videos onto maps of the corresponding areas
- Consolidated video surveillance into a Single-Pane-of-Glass



About N3N

N3N provides the world's #1 operations visualization platform. Leading brands and smart cities across the globe trust N3N to deliver innovative Internet of Things solutions and achieve transformative business and operational outcomes. Our dynamic operations visualization platform seamlessly converges data from sensors, connected devices, video and more in a single view for real-time actionable insights that drive real-world decisions. Founded in 2012, N3N is a Cisco venture-backed company headquartered in San Jose, California.