

THINK VISUALIZATION

PORT OF SINGAPORE CASE STUDY



Learn How N3N Provides
Integrated Monitoring of Crane and Wharf
Operations for the Port of Singapore.



PORT of SINGAPORE



ABOUT THE PORT OF SINGAPORE “PSA”

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. PSA strives to continue growing its port network alongside its shipping line customers and become the preferred partner to port stakeholders across the world. Employing the finest talents in the industry, PSA delivers reliable and best-in-class service to its customers and develops win-win relationships with its partners. As the port operator of choice in the world's gateway hubs, PSA is “The World's Port of Call”.

PSA NEEDS:

With over 35 million containers passing through its port every year the PSA had struggled to monitor their entire wharf and crane operations. In response to these problems the team at PSA selected N3N's INNOWATCH Solution to provide integrated video surveillance monitoring of its cranes and wharf operations from a Single-Pane-of-Glass.



PORT of SINGAPORE



N3N SOLUTION OVERVIEW

Operating six container terminals in Singapore, PSA looked to automate the entire port operations to improve operational efficiency. N3N's INNOWATCH Solution was selected to integrate cameras to track containers and enhanced the efficiency of the wharf operation system by integrating surveillance video into a Single-Pane-of-Glass.

With N3N the PSA now has a central system for monitoring wharf and container operations from a single monitoring system. This resulted in increased security and has significantly speed up the process of loading and unloading containers on and off ships.

Solution Scope

- Integrate number recognition cameras onto cranes
- Monitor live cameras on cranes and throughout Wharf
- PC integration with existing systems
- PC integration includes surveillance camera feeds
- Design UI for Wharf operation system
- Integrated live videos onto maps of the corresponding areas
- Display all video feeds onto PC screens
- Consolidate video surveillance into a Single-Pane-of-Glass



Benefits

- Automate process of container tracking
- Automate matching of container #'s with tracking #'s
- Increase operation efficiency with video integration
- Video feed monitoring of crane operations
- Integrate N3N solution into current system
- Speed up loading and unloading process
- Increased Wharf security
- Enhance Wharf operation system

SOLUTION OVERVIEW

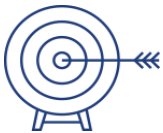
MONITORING/DETECTION



VISUALIZATION



WITH N3N



Locate and Solve
Problems in Real-Time



Monitor All Your Systems
and Applications



Big Data Analytics
and Reporting

N3N Products and Solutions:

WIZEYE

The solution provides an easy way to monitor all your IT operations, applications, infrastructure and business services from a single view. Gone are the day's of hunting for a needle in a haystack. With WIZEYE your team is able to easily locate, analyze and solve problems in minutes. Monitoring, detecting and predicting issues is simple as we bring all your systems together in a Single-Pane-of-Glass.

INNOWATCH

A complete solution for monitoring all your data sources, facilities, business operations and monitoring systems from a single station. Maps, video feeds, computer screens and data are integrated into one display for convenient monitoring, detection and issue notification. INNOWATCH offers a true command and control environment which includes functions like PTZ control, remote PC control, external device control and alarm response all from a Single-Pane-of-Glass.

CUSTOMERS RUN N3N

Brands across the globe run N3N for IT/business operation monitoring, APM monitoring, data center monitoring, security monitoring, facility monitoring and a whole lot more.

ABOUT N3N

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The company is Headquartered in Seoul, South Korea with North American operations located in San Jose, CA. N3N has developed and markets a comprehensive range of data visualization solutions for the Public and Enterprise Sectors.

N3N's VISUALIZATION

Solutions provide highly scalable image processing while integrating IoT, Big Data, videos and maps into a Single-Pane-of-Glass. Today N3N's solutions are run across a wide range of IoT sectors including: Manufacturing, Smart Cities, Buildings, Traffic, Security, High Tech, Retail, Healthcare, Utilities and more.

