



Telvent SmartMobility™ Maritime Suite

The Cutting Edge in Port Management Solutions

Seaports are bustling, vibrant centers of international commerce crucial to the world economy. The efficient, safe and secure use of port infrastructure is clearly vital to world trade. Yet, even in an environment of modest trade growth, port managers struggle to handle the ever-increasing utilization of port infrastructure. With worldwide freight projections increasing 60 percent by 2030, seaport and maritime business leaders must pursue every opportunity to improve operational efficiency.

With 40 years of experience in developing, deploying and supporting complex transportation management solutions worldwide, Telvent offers ITS solutions proven in some of the world's most complex and congested markets.

In the Telvent SmartMobility Maritime Suite, we offer a comprehensive, flexible solution to help you streamline port operations, enhance safety and security and protect the marine environment.

Manage All Port Activity from a Single Platform

The Telvent SmartMobility Maritime Suite integrates all port

operations, systems and subsystems into a single platform that maximizes operational efficiency. By providing real-time status information on all port facilities through a consolidated platform, it enables managers to:

- Better manage and coordinate vessel arrival/departure and cargo handling, maximizing cargo throughput at the port
- Provide better service and navigational assistance to vessels calling on the port
- Prevent accidents by monitoring vessel movements in real time
- Coordinate intermodal shipment of goods between marine and rail carriers
- Use realistic simulations for training and emergency planning purposes

One Suite, Three Solutions

Regardless of port size or the coastal area you need to manage, The Telvent SmartMobility Maritime Suite can be configured to meet your needs. The suite includes three different modules, all of which are offered a la carte for a custom system configuration designed to meet your unique needs.

Telvent SmartMobility Port Management

Port Management is a versatile, powerful solution that

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enables efficient global management of the disparate vessels, systems, activities, assets and users at work in your ports. It's the key to integrating your systems into a centrally control platform, and it includes a variety of specific, high-value applications (which can be purchased as a set or individually):

- Vessel Management – enables real time tracking of vessels in the port and supports communication and administration tasks with each vessel
- Voyage Management – tracks and supports voyage, docking and cargo related operations
- Resource Management – generates and collects in-depth data on port resource and asset usage to support resource allocation improvements
- Incident & Emergency Management – real-time notification of security, safety and emergency issues, with one-step initiation of emergency response plans
- Waste Management – automates the waste management plan for the entire port
- Port Facilities Security – controls and monitors all security sensors and related devices for the port, documents the overall port security plan
- Billing and Report Generation – creates invoicing and required periodic reporting for shippers and government agencies
- Risk Management – planning tool that enables managers to estimate risk probability and impact, and set appropriate controls to mitigate risks
- Maintenance – schedules and documents maintenance for a comprehensive range of port assets and infrastructure

References/Success Stories:

- Port of Melilla, Spain(2009).
- Port of Santos, Brazil (2009).
- Port of Veracruz, Mexico (2002).
- Port of Ras Laffan (Qatar)
- VTS Manzanillo, Ensenada, Puerto Vallarta (México) (2008)
- VTS Tenerife, Spain (2006)
- Navigation simulation Fisheries University Yakarta (Indonesia) (2008)
- GDMSS simulator INCE Venezuela (2005)

Telvent SmartMobility VTS

This advanced solution enables users to monitor and control traffic and provide navigational advice for vessels in busy waterways. It's the key to preventing vessel collisions and groundings in confined, active areas like straits, harbors and inland waterways.

VTS also offers important security benefits, helping vessels at sea protect themselves against piracy and terrorism. The system enables coordinated response and assistance with Coast Guard and other law enforcement agencies in launching search and rescue operations, responding to oil spills and combating illegal immigration and drug trafficking.

Telvent SmartMobility Simulators

Telvent offers a wide range of smart maritime and port activity simulators that help train maritime and naval operators. Our simulators create realistic mock emergencies and operational challenges to prepare key personnel for any contingency. They allow port managers to implement ongoing training programs that develop professional maritime operators, improve decision-making and enhance skill sets. These tools also enhance readiness by building and testing comprehensive emergency response plans. State of the Art Technology, Ultimate Flexibility
The Telvent SmartMobility Maritime Suite is the most

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advanced suite available for managing ports and maritime assets. Based on Telvent's own supervisory control and data acquisition (SCADA) technology, this software gives operators a comprehensive set of tools to manage and secure port traffic.

The entire suite is IMO compliant and configured with completely redundant systems to prevent data loss and maintain guaranteed availability of 99.9 percent, as recommended by the IALA. The suite also offers the ultimate in integration flexibility, smooth deployment and ease of use:

- Install the entire suite or select a single module and integrate that application into your current system.
- The entire system is scalable — add more modules at any time to expand system functionality and capacity.
- An intuitive interface keeps the most important details in front of key personnel at all times.

With all the challenges involved in meeting the needs of a burgeoning and rapidly changing maritime shipping industry, smart port managers need to do everything they can to maximize the efficiency and capacity of their infrastructure. Smart port executives everywhere are turning to the Telvent SmartMobility Maritime Suite.



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