V3000
VESSEL TRAFFIC MANAGEMENT & INFORMATION SYSTEM

BY HITT TRAFFIC
V3000 VTMIS
ON COURSE, NOW AND IN THE FUTURE
Managing ports means managing a complex logistical chain of processes such as ship movements, cargo handling and land and water infrastructure operation. The business success of the port and its stakeholders relies to a large extent on reliable, safe and efficient traffic management in the port and in its approach areas.

To maximize the port’s efficiency, the turnaround time of a ship’s visit must be minimized, even in high density traffic situations during night time or in adverse weather conditions. Therefore traffic needs to be planned and and ships safely guided to their scheduled berths, taking into account all considerations such as the ship’s characteristics, weather conditions, sea state, and under-keel clearance. At the berth, the cargo is unloaded and loaded after which the ship is guided back to sea in the same controlled way.

**MANAGE THE TRAFFIC**

To enable a safe and expeditious traffic flow, the port has to know all vessel positions, behaviour and intentions in its vicinity. Sophisticated algorithms are needed to facilitate in scheduling and collision avoidance. This requires state-of-the-art detection, guidance and control equipment which is able to perform reliably in all weather and sea state conditions.

**SHARE THE INFORMATION**

Vessel information, such as ETA, route, anchorage area and berth need to be shared. Not only amongst the VTS operators, but also with the port authorities and service providers in the port (e.g. pilots, agents, tugs, stevedores). This information exchange allows each service provider to optimize its own business, enabling efficient overall port performance.
WE PRESENT . . .

V3000 VTMIS

V3000 VTMIS is our proven solution for a safe, efficient and secure flow of traffic in ports, waterways and coastal regions. V3000 VTMIS provides authorities with the means to guide, assist and manage all shipping within their areas of interest.

Reliability
Main ports world-wide, including the Port of Hong Kong, Port of Ningbo, Port of Rotterdam and the River Scheldt (Port of Antwerp), can attest to the value of the system’s proven reliability.

Flexibility
The system can easily be configured to reflect the local operational environment. V3000 VTMIS can be applied to virtually all ports world-wide without the need for expensive custom developments.

Continuity
Using our software upgrade services, the system remains up-to-date and aligned with future international regulatory and technical developments, thus preserving the port’s investments.

THE V3000 VTMIS IS THE CULMINATION OF MORE THAN 35 YEARS OF EXPERIENCE GAINED IN THE DEVELOPMENT AND SUPPLY OF VESSEL TRAFFIC SERVICE SYSTEMS

Highly flexible operator console of the V3000 VTMIS at the Port of Rotterdam
SURVEILLANCE
The sensors are the eyes of the system. V3000 VTMIS can work with practically any type: radars, AIS, electro optics, direction finders, hydrographical sensors, meteorological sensors and many more. Based on the information from AIS traffic is automatically identified. V3000 VTMIS unsurpassed Multi-Sensor Fusion integrates what the sensors detect into one consistent and coherent traffic image you can rely on, even in the most demanding circumstances.

SAFETY NET
An accurate multi-sensor fusion is the key to reliable alarm functions. To provide a safety net operators can trust, the system can monitor a variety of hazards with collision prediction, grounding prediction, buoy and anchor watch, line and zone guarding and many more.

NAVIGATIONAL ASSISTANCE
Once safety is guaranteed, the next level is the optimization of traffic flow. Advanced routing functions enable traffic to be scheduled on fairways, optimizing throughput and resulting in a timely arrival at the dock. The VTS operator can provide the ships with information on traffic, fairway and weather conditions. Information can be exchanged using VHF communication and AIS messages.

V3000 VTMIS provides an excellent platform for Traffic Management. Relevant ship, cargo and port information is linked in real-time to the actual and scheduled traffic, providing the VTS operators with all the information they need. In addition to this tactical information, strategic information, such as traffic density, event overviews and visit overviews, are readily available to support the port’s long-term development. The port can choose what information to make available over the web to third party stakeholders.
SUPPORT

V3000 VTMIS provides several supporting functionalities such as recording and replay and system control and monitoring. V3000 VTMIS provides online notification of system alarms to the system’s maintenance engineer.

DISPLAY

V3000 VTMIS displays are valued by its customers for its efficient way of interaction with VTS operators and its clean way of presenting information. Information can be retrieved directly by clicking on the ship of interest. In a similar way, video cameras are controlled from the traffic image without the need of a joystick. Detailed information needed by the traffic planner is presented in a separate window.

THE IMPORTANCE OF TARGET TRACKING

Target tracking forms the foundation on which all functionality of a VTMIS rests. The quality of safety functions is directly related to the quality of target tracking. Weaknesses in target tracking will extend to all functionality in the system. Good target tracking quality will therefore result in low false alarm rates, and timely warnings against dangerous situations or accidents.

An independent side-by-side comparison of the three leading VTS system suppliers demonstrated that the V3000 VTMIS target tracker “TARGHITT” outperformed its rivals in every aspect.
WE DELIVER!

We deliver!
Our track record proves that we can provide a seamless transition from an existing system to a new one with minimal operational disruption. HITT Traffic delivers, on time, within budget and within specifications.

Service Support
Rest assured you are never alone. At HITT Traffic we have a 24/7 support desk with the tools for rapid remote diagnostics to assist you to maintain the performance of the system. We value a long-term relationship with our customers.

Ease of Maintenance
V3000 is delivered with the tools to easily update the port’s maps and system settings. The integrated control and monitoring system provides instant insight in the health of the system.

Training and documentation
We supply V3000 with concise documentation and training, for both VTS operators and maintenance engineers. Online courses are available through our e-learning web portal, so users can train at their convenience. We make sure that you feel completely comfortable with your traffic management systems.

IALA
HITT Traffic recognizes the importance of international maritime organizations and participates prominently in the International Association of Marine Aids to Navigation and Lighthouse Authorities. V3000 is compliant to IALA standards.

Quality solutions
The development and implementation processes are certified in accordance with ISO 9001:2008.
ABOUT HITT TRAFFIC

As a company, HITT Traffic was established in 1994. The experience of many of our employees in the delivery of VTS systems however, goes back much further. In 2012 our company became a proud member of the Saab Group, and together with Saab TransponderTech, we combine the best of what these companies have to offer.

Saab is now one of the largest companies in maritime traffic management control and information solutions world-wide, both in terms of the number of customers and in the broad range of solutions we have to offer. The tight integration between our products ensures that our customers can get the full package including systems, sensors and support through a one stop shop.

Saab is committed to innovation. Through our close co-operation with research institutions around the world, we ensure that you can stay up to date with the latest developments in technology and regulations.

For more information, please visit our website at www.hitt-traffic.com/vts