



Real time data capture for ports and terminals



Efficient active monitoring and reporting solutions to get the most out of your operations and Terminal Operating System

International Terminal Solutions are firmly established as one of the leading innovators in integrated data solutions and automation for container terminals. ITS' real-time data capture solutions will allow your terminal to improve its operational efficiency and provide rapid return on investment.

Contact us today to discuss your requirements.

GPS EQUIPMENT & CONTAINER TRACKING

The selection of ITS as integration partner with the right blend of experience, technological know-how and understanding of a terminals operation will give a guarantee of quality reporting about the movement of containers and equipment. The G-POS GPS system fully integrates transparently with existing port infrastructure and terminal operating systems in a way that provides user friendliness and high levels of automation.

Automated Tracking and Move Reporting

The ITS G-POS system tracks and reports the movement and position of the container handling equipment in real-time, reporting the exact location every time a container is picked up or set down. The system is designed to be user friendly and can be implemented in standalone mode, transparent to the handling equipment operator or with a touch screen interface to show the work instructions. Single touch container selection, driver warnings for incorrect moves and a constant readout of the current yard location also feature.



RADIO DATA AND INTERFACE

Effective Terminal Operation

The key to effective container terminal operation and management is communication. Making sure that information is available when it is required and in a format that is clearly understood. ITS understand this and not only provide the technology but also take the time to understand the operation and provide a solution for a terminals specific needs across the entire operation.

Simple Keyless Operator Screens Speed Up Operations

Terminal operatives can have a real-time display of their current position and container list presented in a clear and concise way. The radio networks and user interfaces support the terminal operation with the flexibility to add and modify functions as required.

Connectivity

ITS work with key industry partners and Terminal Operating System (TOS) vendors to provide seamless integration using XML and other interfaces.



AUTOMATIC IDENTIFICATION

Tracking and Identification

Automatic equipment and cargo identification can provide a terminal with a significant operational advantage. ITS can automatically identify prime mover equipment in the terminal operation and from the list of active container moves automatically determine which containers are being carried by which vehicle. Using this information the actual move details for that container are then automatically displayed for the handling equipment operator.

Twist-lock Interlock

To achieve optimal yard density and use of equipment the exports should be planned with the next operation in mind. However planning is one thing, making sure the plan is followed is a completely separate matter. The twist-lock interlock can make sure the "actual" containers are automatically identified and "positively" placed in the correct yard locations. The system warns the operator if the move is not correct. If he continues to execute this move, or place the container in the wrong position the system will identify this and will lockout the twist-lock operation preventing the invalid move being executed. This system is provided with a central command and control facility allowing the yard coordinator to centrally override the system to allow for last second plan changes.



OPERATIONAL SECURITY

Who is driving the equipment; are they trained; are they authorised and covered under the insurance?

Management

Real time control, monitoring and logging of access, personnel, equipment operation, productivity, time keeping and damage control, all from a centralized point.

Secure Operations

To use the equipment the operator must insert a valid access card. This card is checked at a central ITS security server over the RDT network. If authorised the operator will be allowed to proceed. If the user is not authorised the system will alarm and prevent the operator moving the equipment or accessing information over the RDT system.



Designed For Real World Operations

The system can be installed on all site based mobile equipment as well as fixed access point. It can operate using all common security access card types, allowing the same cards to be used to access the terminal, buildings and site secure areas. This saves the operators from having to carry a host of different cards for different functions.

Tracking and Identification

In addition to identifying the operator and the equipment, the system monitors the movement of and location to which containers are placed providing an audit trail for damage control.

EQUIPMENT STATUS MANAGEMENT

Actively monitoring the operational status of the equipment, it's availability for operation, and providing a rapid method to report and monitor breakdowns are key goals for all terminals.

Management Tools

The ITS equipment status monitor provides the terminal management with the right tools to "at a glance" see the operational status of the terminal equipment and just as importantly monitor the progress of the remedial work and identify when the equipment is available to re-enter operation.



Fast Engineering Call Out

Faults are reported directly from the equipment using a small touch screen in the cab. In the event of breakdown the system reports this directly to the terminals material requisition system eliminating the need for an additional administrative layer.

Reports

The system logs the faults to provide management reports and to allow trend analysis for the identification of specific issues. In addition the system is used to report and alarm when an operator has exceeded the safe working hours quota.



ITS have considerable experience in the field of RFID, GPS, automation and remote data systems for ports, terminals and logistics operations. With its headquarters in the prestigious Loughborough Technology Centre and access to the research and development facilities of Loughborough University, ITS offers a range of services – from consultancy and product development, through to system support and maintenance.

To discuss your requirements or for more information on real-time data capture or other ITS solutions please contact us or visit our web site.



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