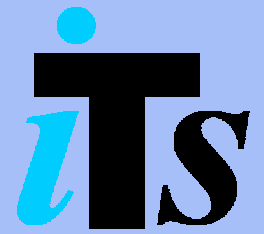


# PRODUCT DATA SHEET



## RADIO DATA SYSTEM

### A proven reliable narrow band solution for container terminal operators

Making sure that information is available when it is required and in a format that is clearly understood is a key element in any effective RDS. ITS understands this and not only provides the technology but takes the time to understand your operation and provide a solution for your needs. This may be the latest technology but could equally be more established system providing a cost effective solution.

#### **“TECHNICAL SOLUTION”**

ITS are able to provide the right technical solution for the terminals circumstances, we are able utilise an existing 2.4 GHz WiFi networks for our systems or to offer a dedicated narrow band solution operating in the 380 to 480 MHz frequency band.

#### **“ROBUST DATA TRANSFER”**

Our narrow band solutions have been implemented on many terminals due to the robustness of the data link and good data propagation. The systems are ideal for terminals where a 380 to 480 MHz dedicated frequency user license is available. Range can be up to 10 Km and is ideal in difficult RF environments such as in container stacks.



Standard Low cost PC installed in STS checkers cabin connected to an ITS RDS for ship load and discharge

#### **“STATE OF THE ART XML INTERFACE”**

Our host server interfaces are implemented to suit the integration requirements of your infrastructure. This could be Serial data, a TCP IP connection or our latest state of the art developed XML interface. The system can connect to a single host or multiple servers to allow the yard operations to exchange data with the TOS, security system, maintenance and engineering and other systems.



Yard equipment operator using ITS touch screen RDS. The system is integrated to a fully automatic PDS system

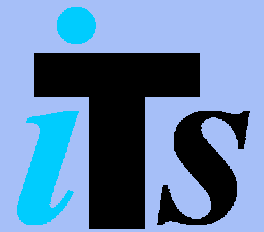


Touch screen VMT complete with card access system. RDS connection to security & maintenance server

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[portautomation@terminalsolutions.co.uk](mailto:portautomation@terminalsolutions.co.uk)



# RDS Continued



## “OPTIMISED OPERATIONS”

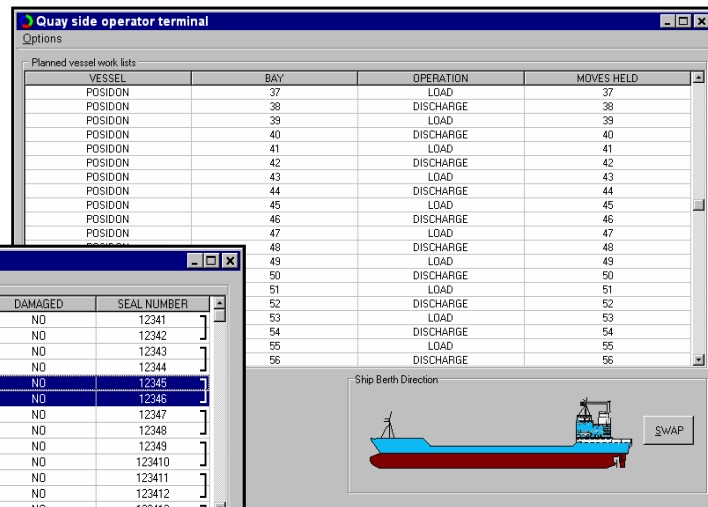
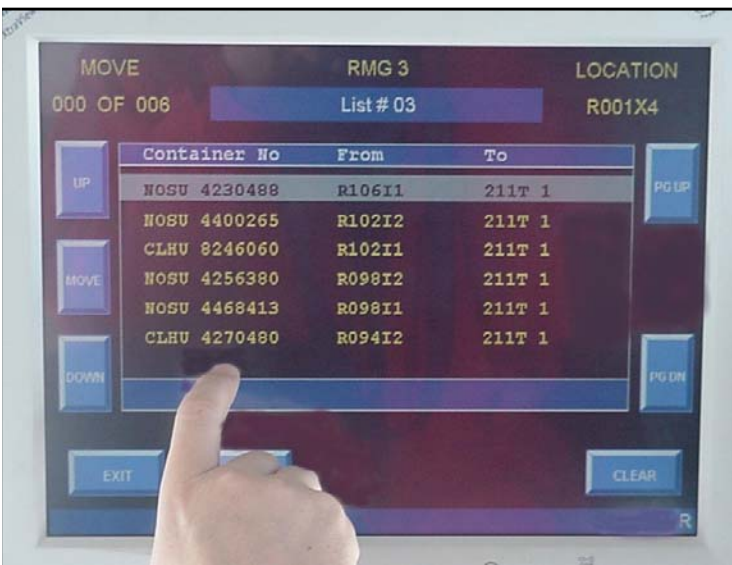
Our system installations span terminals from 65,000 TEU to Ports handling over 4M TEU per year. Regardless of the size the requirement is always the same; real-time operational reporting, clear easy to use operator instructions and full integration capability for a GPS or PDS positioning system. As a leading supplier of positioning systems full integration capability is guaranteed.

## “INTERFACES DESIGNED BY PEOPLE FOR PEOPLE”

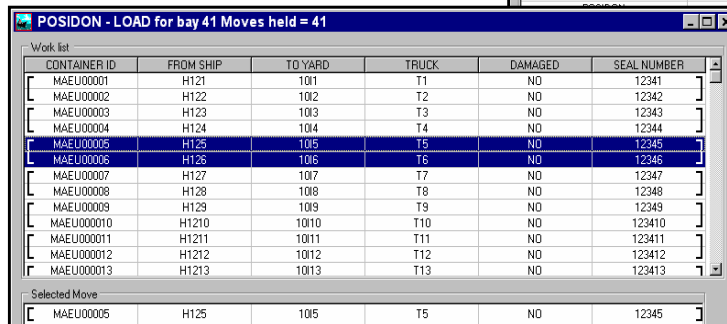
Our advanced user interfaces are born of years of input from terminal operators. Yard handling requires an easy to understand interface with minimal operator key strokes, or better still fully automated. Our touch screen interfaces provide this simplicity, with full functionality to support the operational requirements. The Quay Control Interface for vessel load and discharge has full flexibility with features such as load and discharge lists, twin lift tools, berthing and chassis loading settings.

## “EASY TO USE INTERFACE”

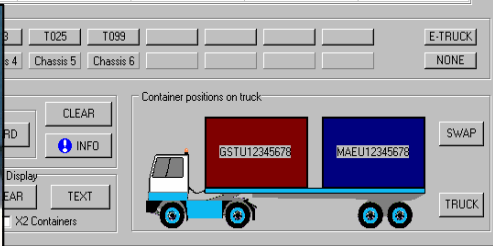
ITS engineers have been working with terminal operators since 1986 implementing radio data systems and user interfaces. The depth of our experience allows us to provide a solution specific to any terminals' operational requirement. Remote maintenance reporting, equipment position reporting and container work instruction. Whatever the purpose ITS can help.



Typical yard operator VMT display, including container work list, actual current position, screens for fault reporting, security screens



Typical vessel operators VMT allows display of the list of moves for load and discharge. Lists are sorted into load, discharge, cells and sequence. Moves can also be displayed as twined for twin-lift. The VMT can also control a display on the STS to automatically inform the truck driver where to take the container.



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