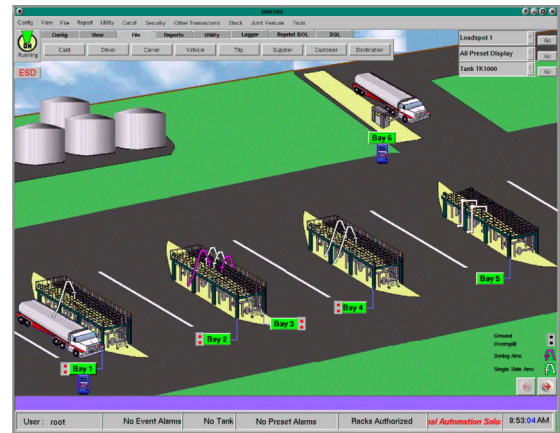


# DANTAS™ Terminal Automation System

The DANTAS terminal automation system is a modular, PC based application designed for today's terminal operation requirements. DANTAS offers either a serial or Ethernet connection to any field devices to provide secure, automated operations. The SQL database supports instant access to real-time terminal information at the click of a button. Forms and reports are automatically generated. The Graphical User Interface is user configurable and easy to use, and DANTAS can be operated remotely via a network connection by simply installing the DANTAS utility onto any PC. DANTAS, a field proven, fourth generation product, is part of the family of terminal automation products designed to manage terminal operations at the click of button.

## FEATURES

- **Secure, automated operations** by use of cardreader or cardless operations
- **Automatic Email of transactions & reports** third party customers receive daily throughput reports and Bills of Lading automatically
- **Trip/order driven and/or allocation operations** for all modes of distribution
- **High-level data archiving** ensures your data remains correct for future reprint or review
- **Automatic end of day reconciliation** of actual verses book inventory
- **User Configurable Generic Host Interfaces** support ERP applications including JD Edwards and SAP for trip/order, transaction, database updates and bulk file downloads
- **Easy graphical configuration utility for full preset configuration**
- **Table-driven, SQL database design**
- **Audit trail, alarm, event logging** and on-demand display of load data and alarm status
- **PLC support for tank farm control functions**
- **Built-in automatic tank gauge system software**
- **EXSTARS fully supported**
- **Rugged, high performance communications** interfaces include TABS/PETROEX
- **Import/Export File Utility** to external spreadsheet applications



## BENEFITS

- **Scalable robust, field-proven product** with global installed base using single PC solution for all size operations
- **Proven long term support capabilities** provided by Emerson organization
- **Single price solution avoids hidden costs**
- **Single solution for all applications** reduces maintenance cost and reduces cost of ownership
- **Sole source for total system solution** provides single point of contact for support and one-stop shopping for software and load rack hardware
- **Local support reduces commissioning costs**
- **Field service personnel familiar with load rack and terminal automation system** reduces commissioning costs
- **Includes automatic tank gauge software features**
- **Generic host interface** eliminates the need for additional proprietary host systems

## **OPERATIONS DESCRIPTION**

DANTAS terminal automation system automates and manages the terminal, supporting twenty-four hour unmanned terminal operations. DANTAS can recognize whether a terminal has entry or exit gates, and sequences a truck driver through the loading process, beginning at the entry gate, if required. Once documented and verified through an optional cardreader at the entry gate, the driver proceeds to the load rack to start product loading. Product loading can occur either by an order-driven process using the order number or through a product contract or allocation. The driver is verified and documented at the load rack, either through the preset or cardreader.

After authorization to load, the driver enters the order number or desired loading quantity into the preset. DANTAS verifies the quantity allowed for this transaction and issues authorization to load. During loading, the preset monitors and controls the flow measurement activities, while acting as a "watchdog" for alarm conditions. If an alarm occurs, the preset will report and take action, depending upon the alarm action level.

After loading is completed, transaction and batch information are sent to DANTAS for archiving purposes. If required, the transaction information is formatted and transferred to the administrative system. A consolidated bill-of-lading for single or multiple load-arm and/or compartment loads is printed for the driver to carry onboard the truck.

## **REPORTS**

Multiple reports are available including product throughput by meter, customer and tank.

### **ALARMS ARCHIVING**

All terminal alarms and events are monitored and archived in DANTAS.

### **INVENTORY MANAGEMENT**

DANTAS can be configured to manually or automatically reconcile product throughput over a configurable amount of time. This is normally set to twenty-four hours and called the end-of-day cut-off. The physical tank inventory is checked either automatically, if an automatic tank gauge system exists, or by entering the tank "dip" levels into DANTAS. The closing book balance is calculated based on totals of all product transaction information and gain/loss amounts provided for each product. This information is prepared for each stockholder and terminal wide. End-of-month and end-of-year information can also be computed.

### **LOADING PROCEDURES**

Loading procedures can be provided to support other methods of loading within the same system including railcar, pipeline, and marine.

### **AUTOMATIC EMAIL**

Reports and Bill Of Lading information can be scheduled to automatically be send to your preferred customers, reducing time and costs for customers to retrieve such data.

## **PERFORMANCE SOLUTIONS**

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### **OFFICES AND REPRESENTATIVES WORLDWIDE**