



TAS.NET™ TERMINAL AUTOMATION **TAKE COMPLETE CONTROL OF YOUR OPERATION!**

Combining the latest technology available with proven design logic enables Dearman Systems, Inc. to provide the most advanced and adaptable terminal automation software solutions in the industry. TAS.net™, based on Microsoft's® .Net™ framework for the web based world, is DEARMAN™'s premier Terminal Automation system. Only DEARMAN™'s terminal automation systems feature ALL of the following technological advantages:

- Specifically engineered for Microsoft® Windows® Server using Microsoft® .Net, Microsoft® SQL, and Microsoft® Reporting Services
- Application Development Platform for rapid customization
- HMI Development Platform for user customization of design layout
- P&ID Drag and drop platform to create custom, fully active terminal drawings
- User customizable BOLs created in Microsoft® Reporting Services
- User customizable Reports created in Microsoft® Reporting Services
- All BOLs and Reports saved as PDF images
- Database modifications to field types and sizes without recompile
- All references and codes are alpha-numeric and can be any length
- User friendly entity maintenance screens (data searchable by id or name)
- Limitless online data storage for instant retrieval – does not degrade performance and no more purging of important historical data like BOLs and ALL related information
- Delete protection for all data - data is deleted and no longer visible or usable in ongoing operations, but is fully protected for use with historical data
- Integrated biometric identification available
- Open architecture design allows flexibility to communicate with legacy administrative systems and any presets, controls, or devices with published or open protocols
- Uniquely capable of multiple TABS, TDS and ELVIS communication simultaneously for Destination, Customer, Supplier, and Position Holder pre-authorization or BOL data transfer
- NTEP Certified (National Type Evaluation Program Certificate of Conformance for Weighing and Measuring Devices - **Certificate # 07-113**)

Upgrade to a technology relevant system today and see for yourself what a difference a Dearman System can make for your operation. With superior core design and our commitment to the technological evolution of the system, it will be the last terminal automation system you will ever buy. Please read on for more information about our industry leading TAS.net™ software!

KEY FEATURES AND BENEFITS

OPEN SYSTEM

TAS.net™ is built with open system foundation layered architecture and can communicate with almost any device and system with a published (or known) protocol.

STATE OF THE ART

TAS.net™ application is specifically engineered for Microsoft® Windows® Server using Microsoft® .Net, Microsoft® SQL, and Microsoft® Reporting Services using the latest software technology, standards, and open systems component interfaces.

EFFICIENT CODE, EFFICIENT CUSTOMIZATION

Our code is fully object-oriented and written using languages supported by Microsoft® Visual Studio.Net® 2003. Additions and updates to your system can be quickly implemented and only require adding or updating pieces of the program, *not the entire application*.

DISTRIBUTED SOFTWARE APPLICATIONS

Multiple copies of TAS.net™ application modules can be distributed across any number of computers in any configuration.



WEB BROWSER BASED

No Proprietary viewers are needed. Users can access TAS.net™ directly from the Internet or DEARMAN™s UNITY™. One of the features of our UNITY™ provides web services to isolate the terminal's TAS.net™ for additional security.

VISUAL SYSTEM CUSTOMIZATION

Dearman Systems has developed its own set of Application Development Platform (ADP) Computer Aided Software Engineering (CASE) Tools. These tools allow us to quickly and visually implement customizations your operation requires. It also gives us the ability to make changes to your customized system whenever they are needed in a fast, cost effective, and efficient manner.

STANDARD HMI TERMINAL GRAPHICS

Detailed standard Human Machine Interface (HMI) terminal graphics provide a real-time visualization of terminal activity. Additionally, TAS.net™ is the first TAS to support user configurable design layout (drag and drop) technology. Each system will automatically configure the desktop to the standard layout that can be used as the base or the user can design a unique desktop for each terminal.

DEARMAN TERMINAL GRAPHICS BUILDER™

The Dearman Terminal Graphics Builder™ software (available for an additional cost) allows you to take complete control of your terminal's process management functions and improves the efficiency and quality of your operations. Utilizing drag and drop technology, the Dearman Terminal Graphics Builder™ software creates a graphical representation of the various distributed process lines employed within your facility and integrates the PLCs, process controllers, pumps, and motor operated valves of those process lines into a fully interactive system. With control over the individual subsystems, the overall process can then be managed centrally and represented graphically as a complete system.

EPA RIN COMPLIANCE

TAS.net™ handles the generation and tracking of Renewable Identification Numbers (RIN) as required by the EPA's Renewable Fuel Standard.

INTEGRATED EXSTARS 4030 APPROVED EDI REPORTING

DEARMAN™'s robust 4030 approved ExSTARS reporting solution is a fully functional tax basis inventory system for your 720-TO and 720-CS reporting needs (available for an additional cost).

INTEGRATED TWIC INTERFACE TO TSA APPROVED READERS

TAS.net™'s open system foundation layered architecture provides the flexibility to incorporate the additional security requirements imposed by the TWIC program.

E-MAIL OR FAX REPORTS AUTOMATICALLY

Any report the TAS.net™ generates can be sent to any number of recipients. Users choose how they wish to receive their reports; Microsoft® Excel, PDF, HTML, or CSV format.

EXTENSIVE REPORTING

Choose from an extensive selection of standard reports or customize your own in Microsoft® Reporting Services™.

MULTI-POSITION BLENDING CONTROL

DEARMAN™'s cost effective blending solution that incorporates the use of existing load rack equipment and our revolutionary compartment loading functionality using touch screen graphical interface devices. The result is safe and error-proof multiple position sequential blending of ethanol, biodiesel, or any product in which expensive blending equipment or potentially inaccurate manual splash blending were considered the only options.

FLEXIBLE ALLOCATIONS

Virtually any allocation method you can imagine is possible. Using our 4-dimensional allocation scheme, you dictate exactly who gets what product, where, when, and how much. Allocations are configurable for any combination of products, terminal or terminal groups.

RAILCAR HANDLING AND TRANSLOADING

Developed as an integrated component of our RTG™ or TAS.net™ automation systems, our comprehensive railcar loading, unloading, and transloading package allows you to take complete control of your rail operations. Schedule in-bound loads, load or unload multiple railcars on the same bill of lading simultaneously, produce bills of lading containing volume and weight for each car (even for products loaded or unloaded at temperatures above 300°F), and keep track of your on-site railcar inventory.

ADMINISTRATIVE/SECURITY INTERFACE

- Internet web browser
- Data filters
- User defined groups
- User group security matrix

ORDER-BASED, ON-LINE PROCESSING

- Automatic and pre-dispatched orders
- Locally entered orders
- Bulk shipment/receipt orders
- TABS and TDS (dial-up and Internet)
- Order and product authorization
- ELVIS

SYSTEM MANAGEMENT

- Simultaneous local and remote control of terminal operations
- Terminal local or network single point distributed database maintenance
- Simultaneous local and remote multiple point HMI control and display

TERMINAL ACCESS

- Supervisory access override
- Access by data entry or access card or fingerprint and any combination
- User entered access records providing any combination of driver, carrier, tractor, truck, trailer, delivery, destination, buyer, seller, and product provider

PRODUCT MOVEMENT DOCUMENTATION IN PDF AND HTML FORMAT

- Bills-of-Lading
- Loading ticket and instructions
- Meter ticket
- Scale/weigh bridge ticket
- Bulk shipments and receipts
- Safety sheets
- Meter proving
- Pre-loading tickets

ELECTRONIC DATA INTERCHANGE

- Petroex
- TABS - multiple concurrent authorizations by order
- Automatic Fax of spreadsheet product movement and inventory
- Automatic E-mail of spreadsheet or user defined file

INVENTORY MANAGEMENT

- Inventory schedules
- Book and physical variance calculations
- Reporting
- Adjustments
- Bulk receipts, shipments and intra-terminal transfers
- Blending and re-grading

END OF DAY ACTIVITY MANAGEMENT

- Automatic control
- Semi-automatic control
- Manual control
- Discretionary control
- Configurable for both date and time
- Selectable date and time for end of month reports
- Pre and post entry of tank gauges and meter totalizers
- Automatic tank gauges

HOST COMMUNICATIONS

- Modem, network, Internet, Intranet, VPN transfer of spreadsheet, flat file or user-defined format
- ODBC to host or local database
- FTP, HTTP, TCP/IP
- Multiple concurrent hosts
- Product provider, product seller, and product buyer

REDUNDANCY, FAULT TOLERANCE, AND ENHANCED RECOVERY

Standard recovery features include:

- Automatic Data Recovery
- Off-Line Transactions
- Manual dataset replication

AN EVEN MORE COMPREHENSIVE RECOVERY OPTION IS AVAILABLE:

- Automatic restoration of in-progress activities
- Fully redundant hardware
- Fully redundant software
- Automatic database replication
- Fault tolerant interfaces
- Interface load sharing
- Multiple PC support

TECHNOLOGICAL ADVANTAGES INCREASE RETURN ON INVESTMENT

- The most advanced AND affordable automation solution
- User friendly application makes entity maintenance simple and fast
- Easy access to valuable data in usable formats for admin system use
- Increases terminal efficiency providing an incentive for drivers, carriers, and customers to return to your terminal

SUPPORTED INTERFACES

- Accuload II, Accuload III, and Microload
- Contrec 1010
- Danload 6000
- Petrocount SMS, RMS, IMS
- Micromotion Mass Flow Meter (MOBUS® RTU)
- Avery Scale
- Fairbanks Scale
- Toledo Scale
- Blend Pac and Mini Pac
- *Any injector controlled by any supported preset*
- Scully VIP for vehicle identification
- Tank Gauging – GSI or any with MOBUS® RTU
- PLC – MOBUS® RTU
- Opto-22 Optimux
- Allen-Bradley® Industrial Computers and Monitors
- Dearman Systems, Inc. Data Entry Unit
- Mercury IMC Ltd 2e Data Entry Unit
- HID Proximity badge reader
- Lucas Deeco Touch Screen
- Any supported preset as data entry
- OPC, RTU, ARTS-NEDAP, HMI connection
- Innometriks Inc. TWIC Rhino Reader

Please **contact us** if you do not see your system or device. We are continually adding to our list of supported systems.

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