Centralized control from the global leader in pipeline and terminal automation solutions.

DTN Guardian3™

With DTN Guardian3 terminal automation, you can optimize inventory and demand, ensure safety and security, and empower stakeholders.
Unprecedented business process optimization and control is now realized by linking critical pipeline, inventory management, and marketing systems — in real time.
Now centralized control over all aspects of terminal automation is a reality

Terminal operators demand greater sophistication from their automation systems to manage complex day-to-day operations in tightened supply situations and combat ever-increasing regulatory and customer demands.

Why DTN Guardian3 for terminal automation?

With our experience and global leadership positions in pipeline and terminal automation systems, you can count on us to make integration between your supervisory control and data acquisition (SCADA) platforms and terminal automation systems (TAS) a reality. We offer unmatched critical infrastructure security, enterprise integration capabilities and a global support network.

With Telvent DTN, you can:

• **Easily analyze terminal activity and profitability** with a superior reporting engine and the powerful DTN Guardian Host™ distributed TAS management system.

• **Improve visibility across your entire enterprise — from the refinery through the terminal** — with access to world-class OASyS® SCADA solutions.

• **Feed terminal data into profit centers with market intelligence solutions:** DTN Fuel Seller™ price optimization, along with DTN ProphetX® trading desk workstation software.

• ** Seamlessly integrate** with the industry’s dominant lifting controls and billing system: DTN TABS®.

Gain centralized control over inventory and demand.

www.telvent.com

Why Telvent for centralized control?

• The leading provider of SCADA and related liquid management applications world-wide, with 70% of North American market.

• Manages 80% of the supply chain pricing and billing transaction interchange conducted in North America every day.

• Manages more than 60% of the total hydrocarbon movements in North and Latin American pipelines, larger in North America and larger in Crude Oil/Refined Fuels.

• Received the Frost & Sullivan 2008 World SCADA Solutions Company of the year.
Real-time management

Leverage our strength in systems integration to help streamline the flow of information from any PC:

- **Share real-time inventory data with customers, partners and company headquarters** with flexibility to meet differing demands.

- **Monitor safety systems**, such as fire detection, ESD and ground connection control systems.

- **Open system** to communicate with any tank gauging vendor and gain a real-time view of your inventory.

- **Interface to DTN TABS** for lifting controls and bills of lading (BOLs) in real-time.

DTN Guardian Host is an established, reliable conduit between terminals and the back office, giving single point-of-management capabilities to owners of multiple terminals.

Gain real-time status by lane, pump or station.
Telvent integrates upstream information with downstream intelligence and controls to optimize business decisions for all supply-chain stakeholders.

How it works

- Marine Terminal
- Oil Tankers
- Refinery
- Mainline Pump Station
- Distribution Terminal
- Injection Station
- Refined Products Pipeline
- via truck
- Airports
- Power Plants
- Gas Stations
- Residential & Commercial

Internet

- SAP/ERP
- G3 client
- Corporate/Regional Office
- Corporate Intranet
- Terminal 1
- Terminal 2
- G3 server
- G3 client
- DTN TABS
- DTN Guardian Host

Optional private connection
With DTN G3, you can:

• Anticipate shortages
• Prevent downtime
• **Maximize profits**
• Rapidly adjust product allocations
• Keep key customers happy

View product inventories, physical real-time, physical month-to-date (MTD), book, and book MTD inventories by tank or shipper.

**Smarter terminal operations**

DTN Guardian3 automatically calculates terminal inventory positions after any product movement and is easily integrated into corporate network environments.

• Operators of terminals with multiple stockholders can leverage real-time inventory displays to **access accurate and up-to-date information regarding customer’s positions.**

• **Real-time inventory balancing**, along with dynamic reporting and flexible allocation management, help operations run more efficiently.

• **Speed reconciliation and reporting of book-to-physical volume** of a wide variety of product combinations, including components, blends, straight products, and additives.

• **Automatically schedule report delivery** to customers, and export to external data formats in Excel, flat text files, XML and PDF.
A consolidated, enterprise view of your terminal automations with DTN GuardianHost

Multiple levels of controls within the DTN Guardian3 system allow manual and automated allocation changes and updates of product and additive blends. Effective system allocations and integration into DTN TABS — the industry’s premier product and credit allocation control data exchange — support fast-changing inventory demands.

Data integrity is further increased with robust remote data management capabilities from DTN Guardian Host, which enable off-site aggregate reporting, load monitoring, and records management of inventory, BOLs and master data such as shippers, customers, carriers, drivers, transports and products.
Drivers are happy with faster, more reliable loading and less downtime — and your throughput is increased.

Know about issues...before your drivers tell you

Telvent DTN monitors important performance parameters and alerts you to potential issues before they become a problem — while checking to make sure you are running at maximum efficiency. We monitor the primary process that performs truck loading and other device communication services, along with the process that establishes and maintains effective communications to the database. If response rates fall within unacceptable limits, you are alerted immediately — so you can take action to minimize or eliminate terminal issues.
Get smarter operations with a highly configurable TAS

At Telvent DTN, we believe that terminal automation ought to be flexible enough to fit the needs of the customer — not the other way around. Reliable and flexible, the system accommodates a variety of driver prompts, statuses to monitor, and interfaces with field devices. Field personnel can easily adjust configurations to meet new industry requirements for products, additives and equipment at the terminal.

• **Productivity tools streamline reporting**, while multiple filtering options in the robust DTN Guardian3 reporting engine enable you to select and display only the data you need.

• **Quickly diagnose problems** with detailed logs of system activity and the ability to view communication logs with field devices.

• **Extensive diagnostic troubleshooting capabilities** quickly show which devices are in fault when a terminal is struck by lightning, or experiences intermittent power outages.

• **Business logic** prevents operators from performing data deletes and modifications, which can affect the terminal balance and billing for customers.

• **Detect and notify** users via email about a number of site and system alarm conditions, including:
  - Unauthorized product flow
  - Customer/shipper product allocations
  - Tank volume levels
  - Card reader response
  - Additive alarms

Enhanced trace file viewer gives an unprecedented view of your communications network and the embedded protocol decoder presents a readable account of your network activity.
Centralized command of your terminal operations streamlines daily activities, keeping you safe and efficient. At-a-glance view of terminal activity in every lane makes terminal monitoring quick and easy:

- Complete audit log of all load and driver activity helps identify and correct problems.
- Detection of unsafe rack conditions triggers shutdown for the entire site, a single loading bay, or even single loading arms.
- Telvent DTN can monitor all of your terminals from our Network Operations Center (NOC) and notify you in the event of a serious issue — especially critical for terminals that are unmanned at times.

Known around the world for SCADA system security and mission-critical data centers, Telvent extends this same commitment to terminal owners.

- Manage driver records, vapor certification and other expiration dates for trucks and trailers.
- Fully TWIC compliant with proactive programming to help you stay ahead of the curve.
- Reliable and always available, the DTN Guardian3 protects your assets and ensures your revenue continues to flow.
- Protect your facility with the rugged DTN PC3™ data entry and security device controlling gates, door strikes, and access to metered products. In addition to driver identification, the PC3 can be used to control product and customer selections available to drivers to ensure accurate loading can take place.
Using a cutting-edge combination of software and hardware updates, DTN Guardian3 leads the charge to reduce the burden of compliance with complex city, state and federal regulations:

- Flexible implementations meet TWIC specifics from port to port. Ongoing proactive enhancements based on customer and Captain of the Port information enables **full compliance with TWIC regulations** — without extra effort and systems in your terminal.

- We are positioned to follow future TWIC mandates, including biometrics and expanded scope beyond marine terminals.

- File creation and direct EDI data transfer of ExSTARS 4030 to the IRS eliminates time-consuming manual reporting and filing.

- Electronic signature-capture from drivers, weigh-masters, rail supervisors, etc. reduces the amount of paper required to run your business.

- Highly customizable BOL messages allow you to convey company, EPA, DOT, and other necessary information directly on BOLs.

- Manage ULSD reporting with DTN Guardian 3 system’s interface to the Diesel Trakker.

- Telvent DTN is always monitoring any new regulatory challenges coming your way — so you stay compliant regardless of regulation challenges.

DTN PC3 supports reading of TWIC cards in hazardous locations via the card’s proximity functionality and is designed to support TWIC biometrics.
Empower all stakeholders with real-time information and controls

Telvent DTN optimizes inventory and demand management with a complete suite of fuel supplier solutions. Fully integrated data exchange between DTN G3, DTN TABS, DTN PetroEx™, DTN Guardian Host; and client back-office systems like SAP, Solarc, JD Edwards, maximize customer control and speed billing procedures.

**We help you keep all stakeholders in the loop** with real-time critical BOL data feeds and the ability to automatically schedule closing inventory reports. DTN Guardian Host gives you complete control of your data, and what to share with shippers who throughput at your facility — including inventory, activity and master data.

**Take care of those who matter most — your customers**

**You’re in control**

Companies insist on real-time, bi-directional data flow in order to optimize integration with back-office systems. DTN Guardian Host allows you to make business decisions as to whether your master data will be managed centrally, or at the terminal. You define which data will be exchanged, the direction it will flow and how often it is synchronized. Your business depends on the data flowing securely — which is why our integrated data exchange is backed up by the toughest security protocols.
Built on open standards to support interoperability and system longevity

DTN Guardian3 and DTN Guardian Host run on standard Windows server-class machines and utilize an embedded Oracle database to keep performance and availability high and support costs low. DTN Guardian3 is always delivered on a current Microsoft platform and can be easily integrated into corporate network environments.

We insist on open standards technology because:

1. Open systems allow for easy compatibility with existing and future software systems.
2. Communication support is available for a wide array of field devices.
3. Connectivity to SCADA and other third-party systems is enabled.

DTN Guardian3 supports OPC, Modbus, OPTO and Elvis connectivity to field devices, along with all electronic presets and additive injectors, tank gauging, and weigh scales. With a flexible, object-oriented design, we’re able to quickly expand our device library.

We support all current industry standard reporting formats. Telvent DTN is a member of PIDX, API, DOT PHMSA, PCATS and other standards committees. We take a proactive role to ensure our solutions will support customers for the long haul.
Your customers are using DTN TABS

Suppliers and rack marketers want complete control over what they’re selling and the credit they’re extending to better optimize supply, reduce the risk of credit losses, and prevent terminal runs. DTN TABS is the leading product and credit authorization platform used by your customers to conduct and control their business — with minimal impact on you as the terminal owner.

An instant, up-to-the-minute view of rack demand helps your customers proactively manage supply and take quick action to capture new sales opportunities. DTN TABS rack marketer users can anticipate product demand and manage inventory, as well as prioritize volume for themselves and top customers.

Going forward, your customers are driving advances in Telvent DTN solutions: rack marketer credit and product allocation controls; order-based loading; and real-time availability, outage, and inventory communications. As the terminal owner, you want to have the TAS system that is going to keep pace with these advancements — so you can better serve your customers and partners with the least complexity and expense.

DTN Portal Solutions™ extend value-added communications, such as Allocation Viewers, to help marketers make better dispatch decisions.
Superior professional services with worldwide coverage.

**Install systems with minimum downtime and impact to throughput.**

With more than 20 years of unmatched service and support, Telvent DTN delivers powerful benefits for your organization — and it’s all backed by experienced experts who will see that your system is properly installed and supported. Our field-proven teams receive consistently high scores on customer satisfaction surveys. We partner with you for the entire lifecycle; from installation to off-hours support, there is always a capable expert there for you.