

OMEGA TERMINAL AUTOMATION SYSTEM

TAS Server¹

- Dual Hard Drives – RAID 1
- Dual Power Supplies – Hot Swap
- Colour 15" Monitor
- CD-ROM / Floppy Drive
- Mouse, Keyboard

TAS Client Interface

- OfficeKey (Refer to doc# TAS-002-SB-01)
- Windows based graphical interface to Omega TAS functionality
- Multilingual
- Password security
- Powerful reporting functionality

Software

- Red Hat Enterprise
- Omega 3000 TAS
- OfficeKey Server²
- Database
- Communications
 - ERP
 - Loading Control
 - Automatic Tank Gauging
 - Security Access points



OMEGA TAS CORE FUNCTIONALITY

Stock Management

The Stock Management function of Omega TAS controls multi-company ownership of products at the site. Control is achieved through reporting, data entry, monitoring stock levels and batch intake. Omega TAS manages stock on the site by monitoring the quantities of stock in the tanks and recording product movements in and out of these tanks. Product Imports to a tank include pipeline receipt, ship unloading, vehicle unloading and vapour recovery metering. Product Exports from a tank include pipeline export, vehicle loading, rail loading, ship loading, drum filling and vehicle refuelling.

Storage tanks

Omega TAS will be configured with all tanks on site which will be monitored or controlled by the TAS. The Omega TAS system stores the tank name, product name, product code, product classification and product density for each tank.

The Omega TAS system interfaces to tank-gauging system computers allowing up to the minute details of stock quantities.

Automatic Gauging Systems

DKI TAS interfaces to many external tank gauging systems including; Entis, Whessoe Varec, Saab Radar, Microlec, Foxboro HTG.

Product Import

Product import is measured by either a Metering System (metered) or changes in Tank Gauge levels (gauged). Each of these types of measurements produces a Product Movement record.

Product Export

Product Export includes export by pipeline, vehicle loading, railcar loading, marine loading, drum filling and vehicle refuelling. Each of these types of export are managed.

Order Management

Orders can be entered through the DKI TAS Administration interface or from another system and sent through to the DKI TAS system across the host communications link.

Loading / Unloading

The DKI TAS has been specifically developed to optimise bulk vehicle / rail / marine / drum loading and unloading.

Loading Controllers, suitable for hazardous areas, integrate the functions of safety interlocks, flow computer, batch controller and driver interface.

Loading Controllers allow multiple compartments to be loaded / unloaded and will ensure correct final product in each compartment. Product Blending is also managed via ratio, sequential and in-vehicle blending schemes.

Inventory Management / Load Scheduling

The DKI TAS Load Scheduling function is used to monitor and control product loading at the site. This function includes specifying loading equipment (tankers), loading plans (schedules) and monitoring loading transactions and recording product returns.

¹ Model depends on specific Omega TAS ordered

² User may provide own PC hardware for Client to be installed – Refer to doc# TAS-002-SB-01

Load Documents

At completion of product loading, the operator / driver will obtain suitable documents. The documents that can be produced by the DK1 TAS system include; Bill of Lading, Delivery Note, Industry Product Movement, Hazchem and Load Report.

Identification Media Assignment

The Identification Assignment function in DK1 TAS allows security media called keys or cards, to be linked to specific personnel and / or vehicles.

Access Control

Access is controlled to areas via gates and doors and to product at loading points. This is achieved by providing ID media reading devices at specific locations around a site, including entry, exit gates, document collection areas and loading bays. Access Control is managed by Role, Timecode and ID.

Standard Systems Hardware Configurations ¹

Hardware

	Small	Medium	Large
Dell PowerEdge Server			
Disk Mirroring	Yes	Yes	Yes
Number of Power Supplies	2	2	3
UTP Hub - 8 Port	1	1	1
Terminal Server - 16 Port	1	1	
Dial Back Modem	1	1	1
Printers			
Journal - Dot Matrix	1	1	1
Bill of Lading - Laser	1 ³	1	1
Reports - Laser		1	1
Driver Load Instruction - Laser			1
Internal ID System	1	1	1
External ID System	2	2	2

1. DK1 reserves the right to change specification of any product without notice
2. 8 port Model
3. Reports printed with BOL printer
4. Standard offering is Magnetic Card – other options are available, I-Button, Smart Card

Standard Omega TAS Capabilities:

	Small	Medium	Large
Maximum OfficeKey - Clients	4	15	20
Maximum Number of Bays	4	8	20
Maximum Number of Arms	16	32	80
ERP Connections	>1	>1	>1

Journal

The journal is no modifiable list of all events occurring within the TAS arranged in chronological order. The journal is available to be selected and searched.

Reports

A standard suite of reports are available. These reports are generated automatically at a user defined closeout time each day, and on demand as required

For further details please refer Reports Manual – Publication TAS-002-UM

Additionally customised reports can be developed.

TAS Functions – Standard & Optional

Orders Management

- Open Orders
- Load Scheduling
 - Ordered Loads
 - Pre-Ordered Loads
 - Pre-Scheduled Loads

Stock Management

- Tank Gauging
 - Entis
 - Entis Pro
 - SAAB
 - Whessmatic
- Product Import
- Product Export
- Product Allocation
- Co-Mingled Product Ownership

Reporting

- Meter Reports
- Carrier Reports
- Loadings Reports
- Tank & Product Balance Reports
- Product Movements Reports
- Interlock Trip Reports
- Standard On Demand Reports
- Ω Historian (Historic Reporting)³
- Remote FTP Report Retrieval³
- Electronic Bill Of Lading

System Management

- Event Journal
- Loading Bays
- Flexible Product Definition
- Tank Configuration
- Companies
- Meters

Security Access System

- Gates
- Loading/Unloading Bays
- System Data
 - Access to Screens
 - Reports
- Identification Method
- Identification Types

Host Computer Communications³

- Single Company / Host
- Multi Company

- Multi Company Hosting
 - Product Mapping
- SAP
 - iDOCS
- Communications Protocols
 - TCP/IP
 - FTP
 - LU 6.2
 - SNA / SDLC/

Product Loading

- Loading Types
 - Metered Loading (Volumetric, Mass)
 - On-Weighbridge Loading
 - Weigh In-Out Loading
- Road Loading
 - Bottom Loading
 - Top Loading
 - Safety Interlocks
 - Earth
 - Overfill
 - Deadman
 - ESD
 - Vapour
 - Product Returns
- Rail Loading
- Unloading (Road & Rail)
- Drum Filling
 - Mass
 - Volume

Loading Controllers

- Accuload BLC
 - Accuload III
- Flexible ID media
 - Magnetic Card
 - I-Button
 - Proximity Card⁴
- Accuload II⁴
- Contrec 1010⁴

Final Products

- Straight Product
- Additised Product
- Blended Product
 - In-Compartment Blend
 - Sequential Blending
 - Ratio Blending
- Rebrands

³ Optional

⁴ Future

Typical TAS Topology

