



Solutions for Liquid & Solids Reception / Tanker Filling



Tanker Reception Solutions

Market leading family of logger products, software and associated data management services are designed to provide organisations with a versatile solution for control, visualisation and management of road tanker reception / export facilities.

Designs for individual client requirements including: -

- ▶ *Single or Multi-Bay Facilities with / without Gatehouse monitoring*
- ▶ *Pre-Sampling to accept or reject load* ▶ *Weighbridge Control & Monitoring*
- ▶ *Remote Monitoring & Audit* ▶ *Commercial Billing / Invoicing* ▶ *Pre-Paid credit options*
- ▶ *Manage User Access & Control* ▶ *Enhanced web based reporting*

The product range is deployed in the following applications: -

- ▶ Domestic / Cess / Septic Liquid Waste Tanker discharge monitoring
- ▶ Sludge / Biosolids Interworks Tankering
- ▶ Sludge Cake Weighbridge monitoring
- ▶ Industrial Trade Waste monitoring
- ▶ Leachate Import / Export monitoring
- ▶ Potable Water Tanker Filling Stations
- ▶ Bulk Liquid Storage Tank Farms

The solutions can be deployed as standalone single bay or multi bay facilities complete with gatehouse authorisation control and monitoring options providing the complete infrastructure for managing and controlling large simultaneous discharge operations efficiently. We also supply weighbridge loggers for integration with new or existing facilities for weight based transaction monitoring and control.



We can integrate into an existing reception facility or design solutions as part of a new build project. The versatile integration options allow industry standard communications via GSM, GPRS, Ethernet or Profibus protocols as well as hard wired signals for local controls / process interlocks, etc.

However simple or sophisticated your needs our logger is the solution that fits.

BENEFITS

- MAXIMISE REVENUE
- STREAMLINE OPERATIONS
- OPTIMISE EFFICIENCY
- ACCURATE BILLING
- FULL AUDIT TRAIL

COMPLETE SOLUTIONS

Solutions designed and built to each individual client requirement whether new build or retro-fit. Complete design, build, installation, commissioning, data management and maintenance services

Hardware solutions for all requirements

Sentinel (Tanker Discharge or Filling Station)

- . Entry level with simple controls (start, stop, etc)
- . LED lamps for operational status display
- . Auto pre-sampling option
- . Gatehouse Authorisation option
- . Can be deployed for Tanker Discharge or Tanker Filling Operations

Se & Iie (Single or Multiple-bay logger)

- . Local user display / visualisation / menu screens
- . Temperature controlled Stainless Steel IP65 enclosure with complete electrical distribution for each bay including any process instrumentation controllers
- . Multiple authorisation methods - Gatehouse, RFID Keyfob, PIN code or Vehicle recognition options
- . Capture important Origin details, Product type, Product class, Duty of Care / Manifest Ticket details, etc.
- . Auto pre-sampling & auto-sampling integration options

W8e (Weighbridge Control & Monitoring)

- . Local user display / visualisation / menu screens
- . RFID Keyfob or PIN code authorisation
- . Integration with all weighbridge types
- . Capture important Origin details, Product Type, Tare Weight, Product weight, Duty of Care / Manifest Ticket details, etc.
- . 'Approved for Trade' compliant

Over many years we have developed our logger solutions to ensure that we offer flexibility and versatility, meeting the operational needs of our varied client base. The product family now consists of several versions to allow the client to specifically define their preferred tanker reception operations.

From the simplest single line system to the most complex controlled facility with pre-sampling, inline process monitoring and web based data visualisation we can design the solution to match the needs of your business.

Pre-Sampling of partial load

Automatic pre-analysis of process parameters such as pH, Temperature & Conductivity, etc to ensure tanker content is acceptable for receipt before main discharge. Tanker load can be rejected or automatically diverted via actuated valves if process parameters are exceeded.

Inline Sampling during discharge

Automatic inline sampling during volumetric discharge to monitor process parameters such as Flow, pH, Temperature & Solids, etc. If process parameters are breached, loads can be prevented from further discharge. Complete transaction load details are recorded for audit trail / commercial billing and each discharge can be individually charged against exact volume quantities and strengths and in accordance with any pre-defined discharging tariffs.



Multiple Login / Authorization options

Managing individual / multiple user authorisation can be controlled in a number of ways: -

- ▶ Simple START/ STOP valve control functionality for basic volumetric control
- ▶ Contactless RFID Key Fob access - Users are provided with key / vehicle tags which provide authorisation when in the vicinity of the logger. Key fob access permissions can be remotely managed to ensure robust security
- ▶ PIN code login - can be setup as individual one-shot, timed or permanent parameter
- ▶ Vehicle recognition - Integration with number plate recognition software to define authorisation / credit status, etc
- ▶ Remote Gatehouse controlling individual bay discharge - Complete facility management can be undertaken at a manned location to authorise discharge bay usage and monitor online transactions.

'After reviewing our tankered waste reception systems we chose the 'WaSP' solution due to significant advantages in terms of system benefits, costs, service and maintenance support'

Operations Manager - K UqY Water HYUra YbhDUBh



Software solutions to improve efficiency

Our solutions are continually being adapted and enhanced to keep up with technology trends and increased client expectations. Road Tanker management can be an expensive operation particularly when dealing with treatment byproducts, such as wastewater sludge. Our software solutions are geared towards increasing visibility, enhancing data presentation, improving audit trail data, increasing the opportunity to raise revenue collection and reducing costs through improved efficiency.

Logger software

Our range of logger systems have been designed with both simplicity and enhanced software functionality in mind for greater sophistication to ensure each transaction is dealt with appropriately and as per user defined parameters. Each system is capable of controlling and monitoring based on client preferences for: -

- ▶ User Login Characteristics
- ▶ Waste Types
- ▶ Volume / Strength Capacity Limits
- ▶ Process Measurement Parameters
- ▶ Transaction Details (Date / Time Stamp)
- ▶ Credit Checking & Status
- ▶ Additional Data Entry Options
- ▶ Site Operating Times
- ▶ Process Interlocks
- ▶ Vehicle Tracking / Recognition Options

Individual customer/site specific operations can be programmed for further additional flexibility.

Gatehouse (LCS) software

On larger sites where multiple simultaneous transactions are common, we can deploy our LCS gatehouse software solution which allows controls Security / Reception site personnel to control, manage and authorise each discharge bay remotely. Each bay is configured to communicate with the gatehouse allowing complete facility operational status and warnings to be displayed alerting staff to any issues at the discharge bays. The software can be used to control traffic lights / barriers and additional site management infrastructure to further enhance facility controls.

The LCS software can also be used to automatically assign discharge bays to Authorized users based on previous usage and load demand characteristics, increasing flexibility and efficiency on busy sites.

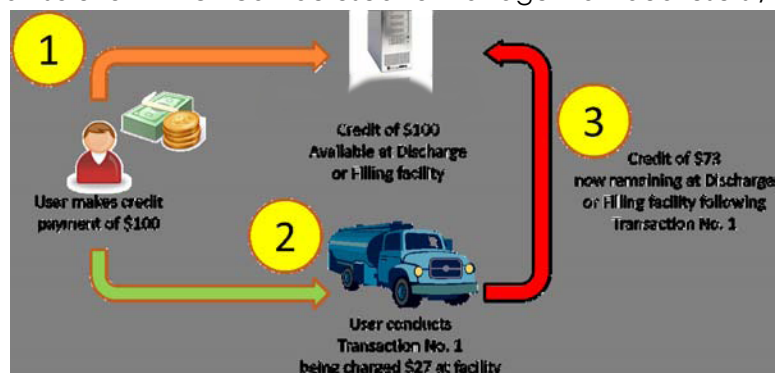


Pre-paid credit facility

The system has the ability to integrate a pre-payment credit solution which can be used to manage individual users / company credit and define exact discharge or filling volume allowances based on current credit status.

The pre-payment facility can be interfaced directly with the site based loggers allowing up to date credit worthiness decision making prior to discharge.

Alternatively if pre-payment is not desired, the software has the ability to produce day / week / month end commercial invoicing based on each individual transaction and any tariffs in place.



'By working closely we have been able to increase the reliability of our logger network, drive down maintenance costs and provide an infrastructure that can be used to improve our sludge logistics'

Commercial Manager

'I was impressed by the commitment, as well as the continuing support to ensure issues are dealt with as soon as they arise with minimum disruption of service to customers. The project could not have gone better! We now monitor and track imports in an efficient and timely manner'

Capital Asset Manager

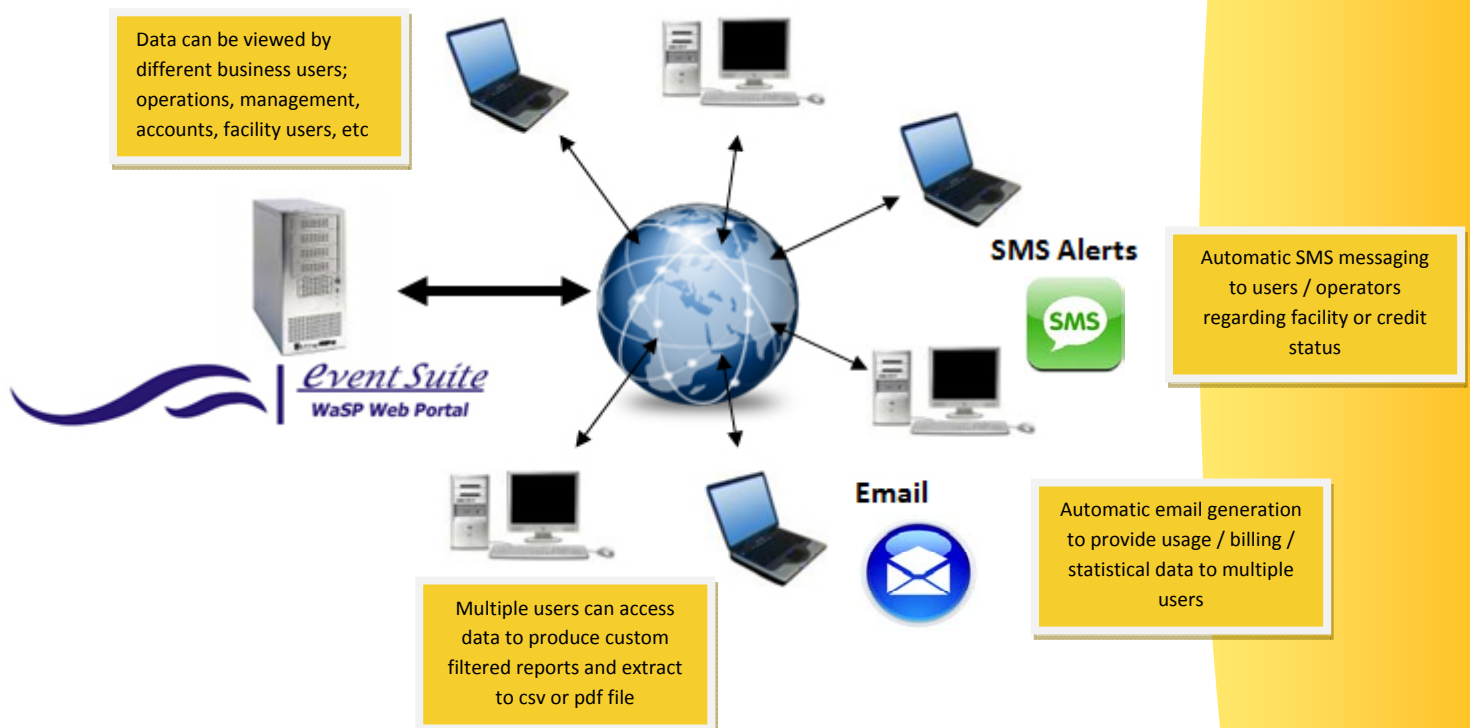
Web Based Portal

The Event Suite portal software is a web based solution designed to provide increased visibility and data reporting functionality for all transactional data captured from site.

The software can be deployed locally on the clients own infrastructure or hosted remotely using our professional hosting packages providing secure web based 24/7 access to data with any web browser.

Software features include: -

- ▶ Password access for tiered level visibility
- ▶ Enhanced site data presentation for analysis and review
- ▶ Unlimited Remote Users
- ▶ Query based reporting with filter features
- ▶ Contractor billing / invoice generation
- ▶ Revenue monitoring and analysis Integration into existing corporate packages
- ▶ Regulatory performance reporting
- ▶ Integration with Vehicle Tracking software for complete 'Origin to Destination' tracking
- ▶ Data archive and extraction
- ▶ Industry standard data migration and integration with other client packages to suit



Business Benefits

Whether you require a complex multiple bay solution with pre-sampling and process parameter monitoring or simply a discharge control system to monitor a single reception point, we have a solution that fits. Our proven solutions will enhance any tankering operation process and provide valuable commercial and audit trail data whilst ensuring all transactions are controlled, protecting the receiving plant from harmful discharges and ensuring appropriate revenues can be collected.



Adding Value

We continue to develop our product range and offer market leading solutions to clients around the world. We understand that individual client's needs may differ, so should you need a specific solution not mentioned in this literature, let us know, and we can develop a custom integrated solution to ensure your business requirements are met.

Design & Installation - Maintenance & Servicing

Technical Support - Instrumentation Calibration

Web Based Data Hosting - Software Integration

Engineering - System Integration
Sales and Service
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