

## Omega Historian

Omega Historian is a long-term repository of data for the Omega3000 system. From the results of daily operations, the Omega3000 database stores information typically for 30 days. The data is then used to generate daily site selected reports at close-out that may include daily, weekly and monthly formats of similar reports. After 30 days, the data is overwritten.

Omega Historian captures this information from the Omega 3000 operational database and moves it to the Historian database for long term storage, up to 1 year, on a daily basis. The historical data is stored in a secondary database on the Omega server to expose it to third party systems via industry standard network connectivity. Any third party system that supports ODBC via TCP/IP will be able to connect to and read the data in the Historian database. The data retrieved can then be used to generate custom reports via tools such as Access, Crystal Reports and many other software environments.

### Data

Data in Omega Historian is exposed via a number of database tables with logical inter-relationships. Each table can have single or multiple relationships with one or more other tables.

Access to data contained within the tables is restricted to READ ONLY to maintain data integrity. Security is based on the users Omega user identification and password and is applied to all views of the data.

A third party is able to gain access to the data by meeting just a few requirements. They have TCP/IP ODBC connection, have appropriate permissions on the Omega TAS network and have a valid user Name and Password in Omega.

### Timelines & Longevity

Data in Omega Historian is held for long term use, typically 12 months. Data storage requirements are limited by the amount of disk space available to store the many thousands of records generated during this period.

Omega Historian data consists of the following general types:

#### Loading Data

Daily transactions include the passage of petroleum products into tankers. They cover schedules, loads, transactions, transfers and product mix information. Daily transactions are written to Omega Historian at the end of each day during the 'Closeout' process.

#### Stock Management Data

This includes general details about the state of each tank and the volumes that flowed through each meter. This data is written to Omega Historian at the end of each day during the 'Closeout' process.

#### Journal Entries

Every time there is a change of information or event on the Omega TAS system, an entry is made in the Journal file and printed out on paper as are all transactions, warnings and errors. Each journal entry is written to the Journal files within moments of it being generated. It is then printed and transferred at Closeout to Omega Historian.

Omega Historian provides an excellent means for third parties, in a software environment of their choosing, to use and manipulate data from daily operations in order to generate reports and files in a form that best suits their requirement.



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