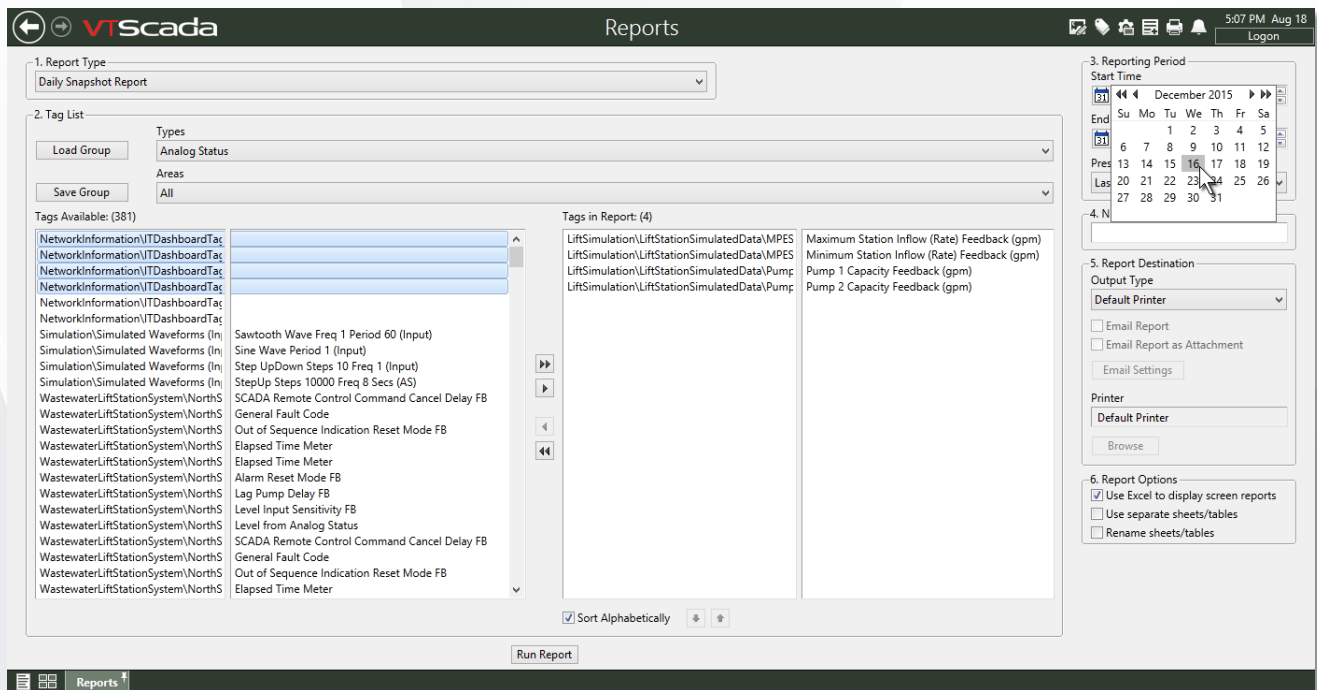# VTScada® by Trihedral

Report Generation

Standard Component

Simple Scheduled or Ad-hoc SCADA Reporting

Every VTScada software application includes two SCADA reporting components that allow users to create ad-hoc or recurring reports in seconds, the VTScada Reports Page and the VTScada Report Tag.

The VTScada Reports Page

Generating your own ad-hoc reports is as easy as selecting I/O tags, a time range, and an output format.

Pre-defined SCADA Reports - VTScada provides a variety of pre-defined report types designed to analyze the performance of the equipment comprising your physical system. Most can be used across a wide variety of industries while others are intended specifically for water and wastewater. Any number of additional custom reports can be defined and saved.

- **Analog Summary Report -** The average, minimum, maximum, and total values for selected analog tags within a configured period.
- **Daily Snapshot Report -** A "snapshot" of each included tag's value, at a specified time and date.
- **Daily Total Report -** The sum of values accumulated for each selected set of tags in a specified period.
- **Derived Flow Report -** Displays the number of driver cycles, plus inflow, outflow, and total station flow.
- **Detail Report -** Shows the values recorded for each selected tag, within the given time period.
- **Driver Communication Error Detail Report -** Driver error activity, recorded over a specified period.
- **Driver Communication Summary Report -** A history of driver activity for a specified time period.
- **Hourly Snapshot Report -** A "snapshot" of selected tag's value, every 60 minutes in a specified time.
- **Hourly Total Report -** The sum of the values accumulated hourly for selected tags in a specified time.
- **Rainfall Report -** Per-tag summary of totals in a configured period showing the total rainfall for selected tags in a given period.
- **Pump Activity Report -** Summarized values for Pump Status tags, showing overall pump activity.
- **Pump Discrepancy Report -** Helps spot instances of pumps that should behave identically, but do not.
- **Standard Report -** Shows all the values logged for a tag over a chosen time span.
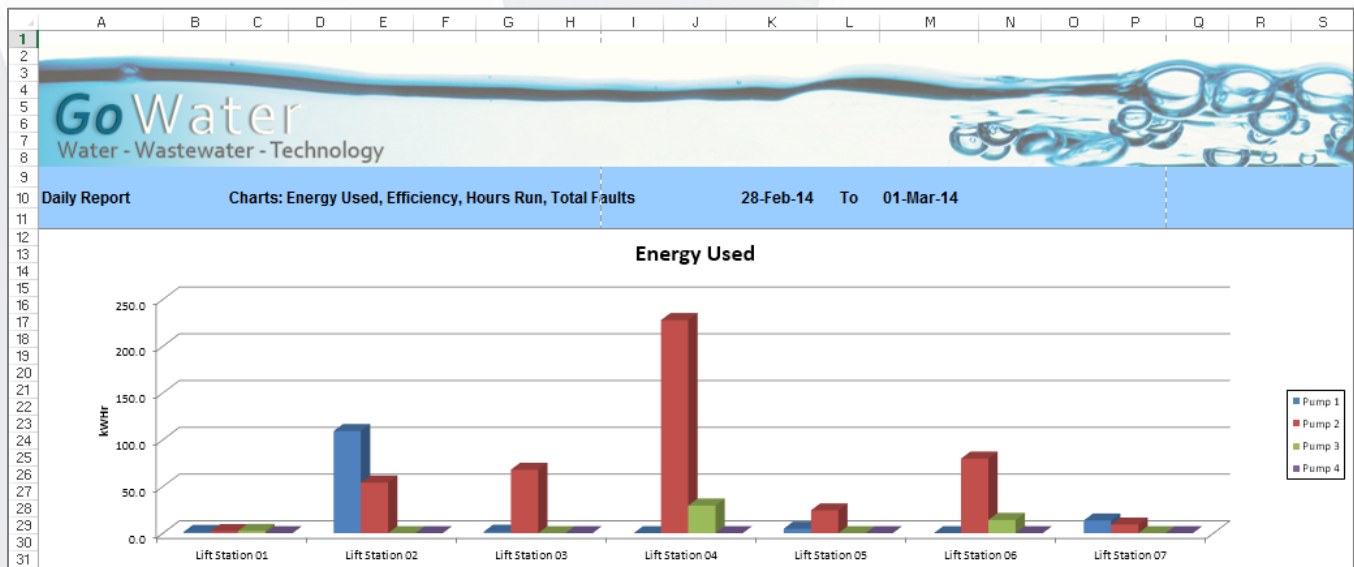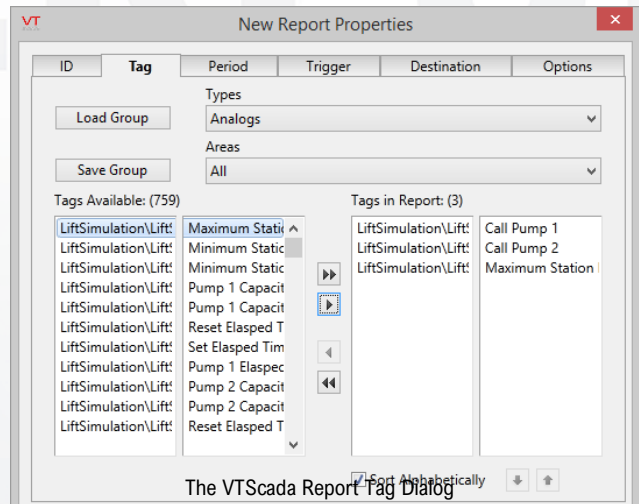
VTScada
by Trihedral

The VTScada Report Tag

Developers can configure VTScada Report Tags to run a particular report on schedule, automatically. Report Tags are time-zone aware and can be configured to run daily, weekly, monthly, manually, or when triggered by an event.

Report Tag Widgets - Developers can add a variety of Report Tag Widgets to their display pages to allows operators to adjust the report setup, without requiring tag configuration privileges. Additionally, the Report Button Widget can be set to re-run the last scheduled report on demand.

SCADA Reporting Output Formats

- Output reports to the screen, a printer or to any of a number of formats including CSV, spreadsheet, and database.
- Reports being saved to a file can also be emailed automatically if the VTScada workstation has access to an email server.
- Create your own custom script reports and pre-formatted Excel® report templates (below).

The VTScada Report Tag Dialog

A Pre-formatted Excel® Report Template

Third-Party SCADA Reporting

VTScada was designed to keep your process history safe accessible. That includes making this data available to your third-party business systems and reporting packages to facilitate more complex needs, such as state-specific compliance reports. The following are Standard in Development/Runtime Licenses and Optional for Runtime Only Licenses:

- VTScada Rest Interface (replaces WebServices)
- VTScada ODBC Server

- VTScada OPC Server
- VTScada Excel Add-In

Trihedral also works with reporting manufacturers such as XLReporter® and Dream Report® to create direct interfaces for sharing process data.

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