



Improved performance. Increased yield. Reduced waste.

### Advanced Process Visualization

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SapphireTrend is a one-stop, plant-wide, advanced process visualization package.

It allows plant operators, chemical engineers, process engineers and plant managers to use a common trending interface.

Sapphire has been designed for use in the most demanding 24 x 7 real time environments. It can be used for control room strip chart replacement, for adhoc event analysis and for post event analysis.

It can run over its own high integrity data collection engine, or can connect directly to your DCS via OPC. It can even be used over a plant historian and for environmental reporting.

It is the trending product of choice of one of the world's leading Oil & Petrochemical multinationals.

### The benefits

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Sapphire offers the following key benefits:

- Provides an accurate view of current plant state allowing operators to adopt the best control strategy.
- Allows process engineers to gain a better understanding of process interactions on the plant.
- Helps improve operating efficiency reducing the environmental impact of operations.
- Allows operators to run the process to much tighter tolerances, thereby improving profitability.
- Improved safety by increasing awareness of the current state of the process.

- Provides a comparison between the current plant status and previous 'best case' periods.
- Detailed post event analysis helping diagnose the causes of faults, and apply procedures to prevent repeat occurrences.

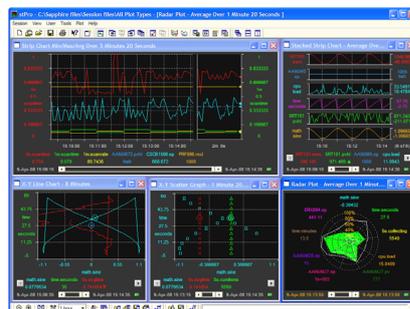
### Why SapphireTrend?

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SapphireTrend is the worlds leading process visualization package.

With more than one thousand licence sales, Sapphire is helping the worlds leading Oil & Petrochemical corporations run their plants more efficiently right across the globe.

Once your operators have used SapphireTrend, it will become an essential part of the toolkit they require to do their job.



### User Quote:

"I have yet to see a better trending package. They'll only stop me using SapphireTrend when they pull it from my cold, dead, clammy hands."

Process Control Engineer  
World leading Oil & Petrochemicals multinational





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## Features

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### Trending:

- True 24x7 Strip chart emulation.
- Infinite plots, infinite pens.
- Fully configurable plot windows.
- Support for multiple graph styles – Strip charts, Stacked charts, Radar & X-Y plots.
- Sessions and Plot files allowing easy recall of preconfigured views.
- Preview pane for split periods in a single trend.
- File based User Preference settings.
- Active-X control trend object.
- Advanced scaling, panning and zooming options.
- Hair-line cursor for specific time analysis.
- Scheduled exports using data driven templates.
- Graph Annotations.
- Configurable time durations.
- Plot synchronization feature.
- Display of real time predictions.
- Separate dedicated Operator interface.
- Support for virtual (calculated) items.

### Tabular History:

- 1 minute snap values.
- 6 minute, hourly and daily averages.
- Trend window.
- Active-X control.

### Data Collection engine:

- No Compression.
- No Interpolation
- Optimized APIs for fast zooming.
- OPC item aliasing for namespace management.

- Fully scalable up to a multi-user network configuration.
- Scan times to millisecond accuracy.
- Advanced scheduling to minimize system loading.
- In-built OPC failover capability.
- Advanced logging and diagnostics.
- Archive capability.
- User account and IP based security model.
- Consolidated data collection from disparate control systems.
- DA and HDA OPC Servers allowing 3<sup>rd</sup> party OPC Clients access to data.
- Scheduled data Exports providing process data for modeling and optimization applications.

## What's next?

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The best way to appreciate the true power of SapphireTrend is to try it yourself.

Download a fully functional 30 day trial from our website: [www.sapphiretrend.com](http://www.sapphiretrend.com)

## Additional information

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For more details on SapphireTrend

- Go to: [www.sapphiretrend.com](http://www.sapphiretrend.com)
- Call: (+44) 1234 757252
- Email: [james.weedon@jemmac.com](mailto:james.weedon@jemmac.com)

**James Weedon**  
SapphireTrend Product Manager  
Jemmac Software Limited

