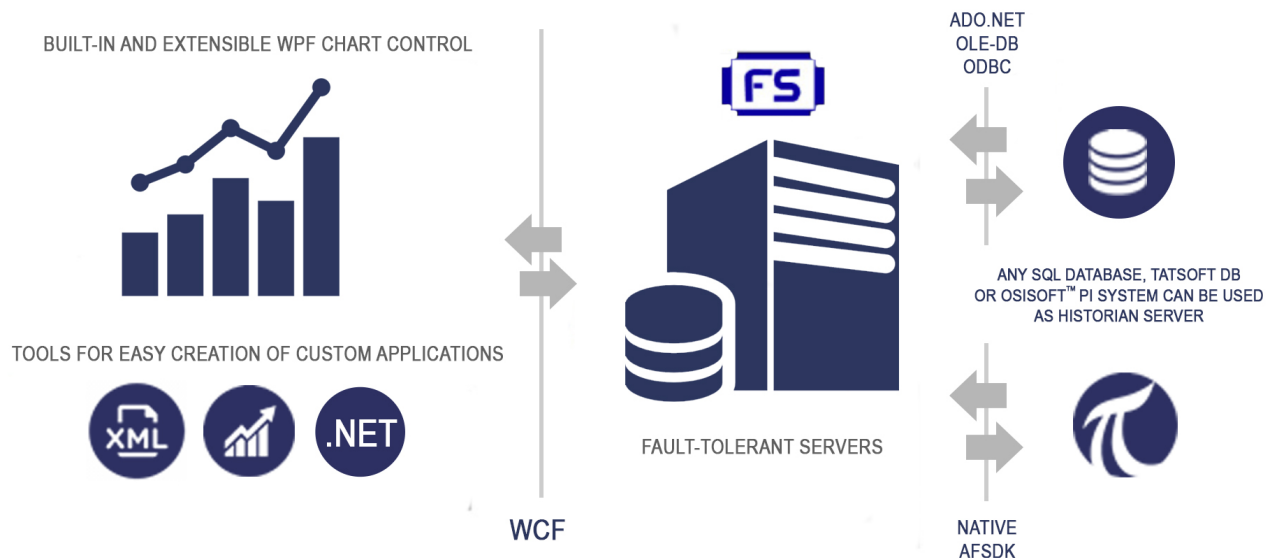


Trend and Historian



Storage and Replication

Store and Forward

Universal Time and Daylight Saving

FactoryStudio leverages **Coordinated Universal Time (UTC)** on all logging and online date time objects. This means that all Alarms, Events, and Historical data are accurately time stamped when they happen, no matter where they are located or if there are any daylight-saving settings.

Process Analysis and Batch Systems

Users can compare two curves on the same chart from two different start times, which is ideal for batch and process analysis.

Vertical and XY plots

Vertical waterfall and XY charts are available with all their properties accessible through real-time tags or in the code behind scripts.

Annotations and Alarms Overlay

Customizable open project templates are provided within **FactoryStudio**. On top of trend charts, you can overlay annotations stored in SQL databases or alarm conditions and acknowledgements.

Real-time Online Charts

Online charts run in the client display level, even if there is no historian for the selected tags. A built-in trend chart control is available for desktop, web, and mobile clients.



You can combine Historian curves with any SQL database query.

Customize and Save at Runtime

FactoryStudio empowers operators to customize tag groups, scales, and the entire appearance of trend charts during runtime. Users can immediately save and share the configuration.

Snapshots, Tables and Reports

Trend charts can be added to web and PDF reports. Image snapshots and value data table exports are available upon operator commands or any process event.

OSISOFT™ PI System Database

For large, high-performance applications, the tag historian can be kept on the PI System database instead of a SQL database. A pure .NET SDK level connection with PI (no COM, OPC, or OLEDB required) provides high performance and click-once tag definition synchronization.

Data Quality

Tag Quality is stored and presented on the trend charts. This is used to control the trustworthiness of tag data and value. By default, tags that are not trustable (no good quality) are not presented on trends.

Data Throughput and Performance

FactoryStudio can handle up to 0.1 ms interval timestamps. Therefore, no matter what the future may bring in the way of process enhancements for networks and data acquisition devices, **FactoryStudio** is well prepared for long-term usage.



Real-time SPC calculation.



See "[Trend Settings](#)" for more information.

