

AST-SCADA®

*Increase Operator Efficiency with
Reduced Risk and Improved Security*



Overview



Efficiently monitor and control Every aspect of your Plant operations

AST-SCADA® enables smarter and faster operations with right action at right time meeting the desired outcome for any size of plant in any industry.

As a proven automation platform, AST-SCADA® from AST Software Solutions helps Leveraging inherent capabilities of unlimited Tags (Points), efficient alarm Management and Rich HMI capabilities.

AST-SCADA® provides true client-server visualization and control—from single machines to plant locations spanning the world—helping you manage your operations and improve decision making.

Versatility

Due to its universal features and flexibility, AST-SCADA® can be used across any industry



Chemical &
Pharmaceutical
Industry



Food, Beverage, &
Tobacco industries



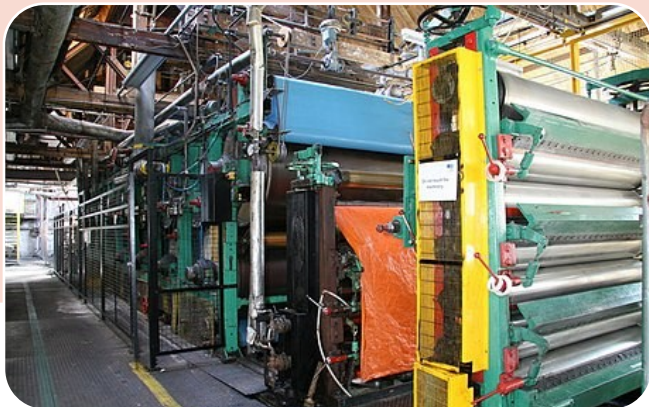
Machine & Plant
construction



Plastics & Rubber
industries



Metal processing &
Steel industries



Paper production &
processing



Printing Industry



Logistics



Water & Wastewater
treatment



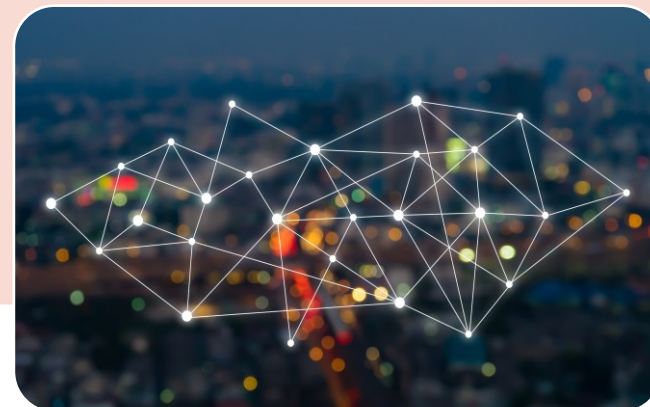
Shipping & Transport
solutions



Power supply &
distribution



Oil & Gas supply and
distribution



Building control
technology



Property
management



Research

And many more

Benefits

Enhanced Decision
making

Faster Time-to-Market

Improved Productivity

Reduced Development
Costs

Lower total cost of
Ownership

What it Offers ?



High Scalability
, With the support of unlimited tags (points), It can be efficiently used for any size of plant with any level of complexity



Client-Server based SCADA for better Visualization and Control through clients spread across plants



High Performance and Efficient HMI building



Cost effective solution supporting the Actual (Device) and Virtual Tags



Reduced time-to-value with Rapid Application templates



Comprehensive Authentication and Authorization



Improved connectivity, security, and reliability for plant operations



Powerful Data Collection enables you to connect to hundreds of other systems and devices.



Supports varied regional cultures

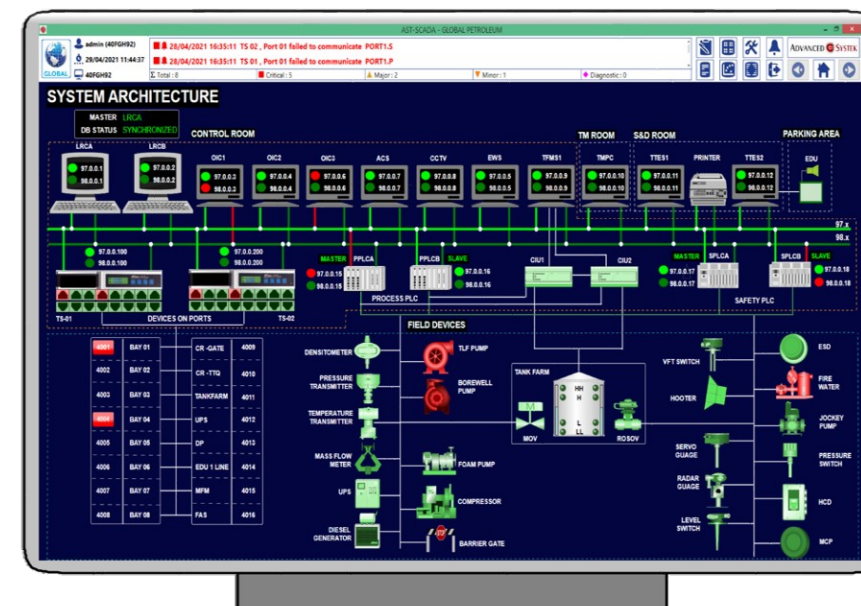
INNOVATION
SOLUTION
BRANDING
IDEAS

Features (Cont'd..)



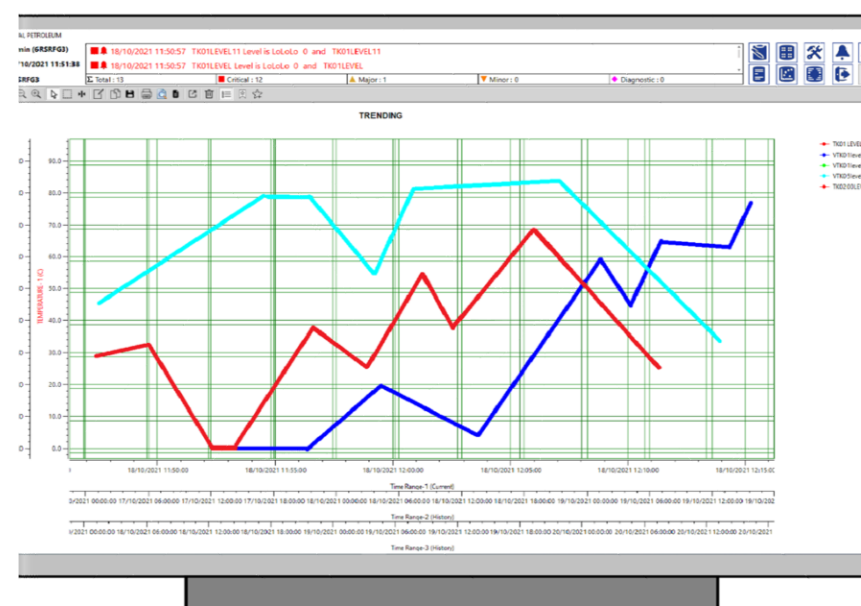
High Performance HMI

- Rich, efficient, and user-friendly HMI screens can be designed by leveraging the inbuilt library of 4000+ industrial symbols with advanced animations



System Health Diagnosis

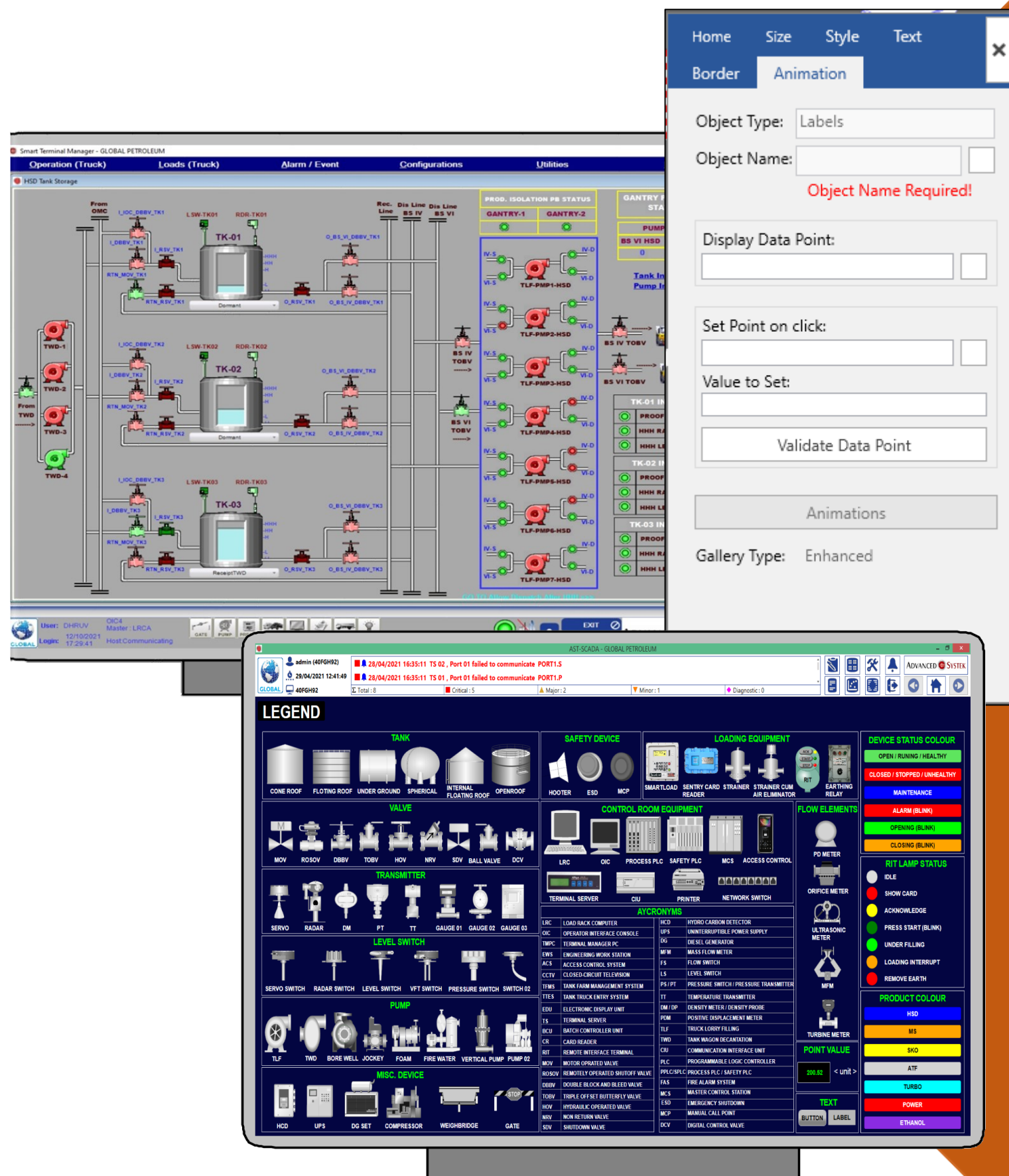
- Provides real-time information about the health of the computers and the AST-SCADA® application within a network—immediately alerting you to problem conditions.



Advanced Trending

- Enables to review, evaluate point values over time in varied visualizations.
- AST-SCADA® offers advanced features for current and historic trending with multi-axis support for efficient process monitoring

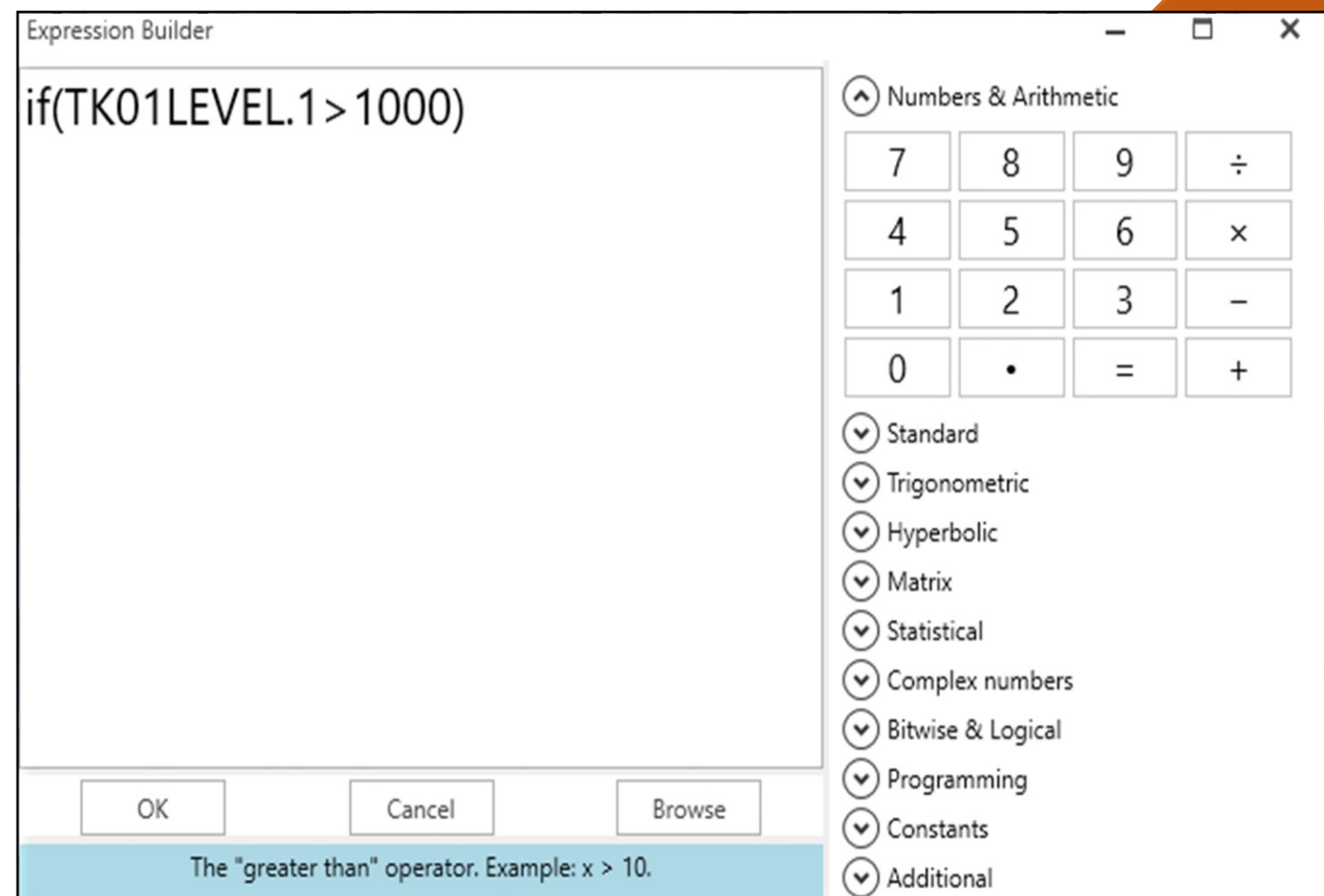
Features (Cont'd..)



Advanced screen building and viewing capabilities

- Allows Template creation for faceplates, which in turn eases the operator's job by allowing them to customise from a given range of built-in templates
- Library of 4000+ industrial Symbols, labels, buttons, and a provision to include any image of your choice.
- Advanced user-defined animations
- Exhaustive list of designing tools to customize appearance of the symbols
- Easy Identification of Devices in Alarm
- Zoom-in / Zoom-out
- Print and Export
- Easy Navigation
- Quick Access Options

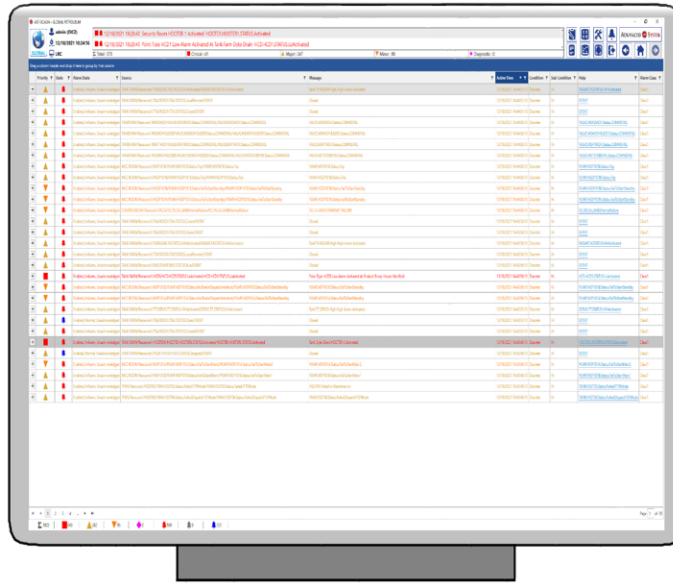
Features (Cont'd..)



Advanced expression builder and calculation engine

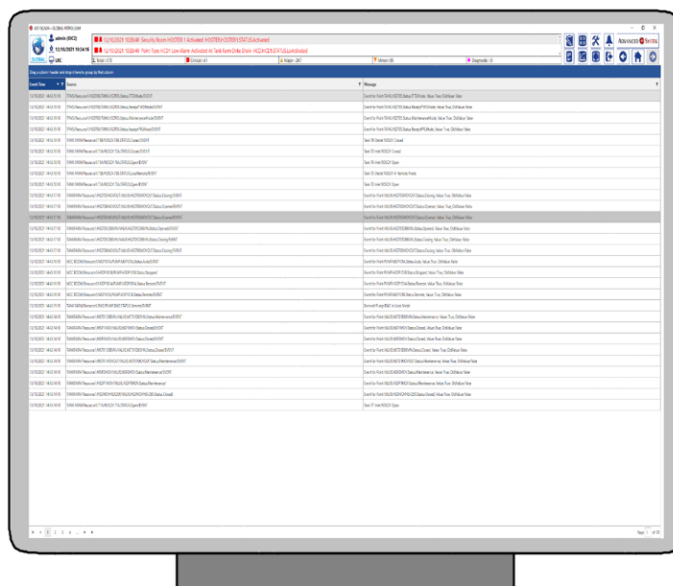
- It allows the user to create virtual tags and animations
- Expression builder provides various calculations like:
 - Arithmetic
 - Logarithmic
 - Trigonometric
 - Hyperbolic
 - Matrix
 - Statistical
 - Matrix
 - Complex number
 - Bitwise and Logical
 - Programming
 - Constant
 - Many more

Features (Cont'd..)



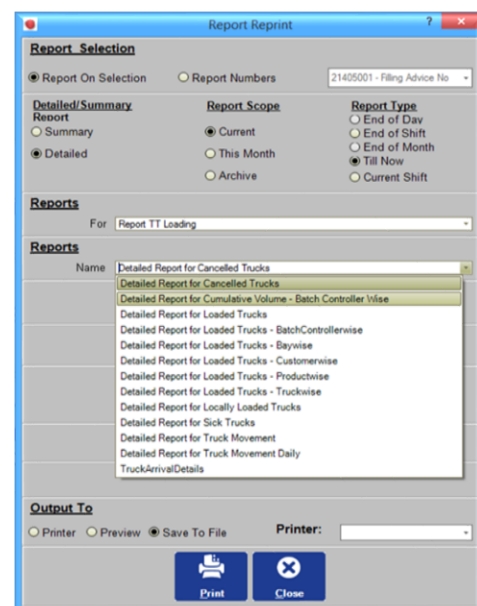
Alarms management as per ISA 18.2

- AST-SCADA® offers comprehensive and effective Alarms Management as per ISA 18.2 standard. It supports alarm filtering, acknowledgments, and comments.



Simple Event and Tracking (Audit trail) Event logging

- Allows the system to log various events captured from the field along with various operator actions



MIS Reports

- Comprehensive MIS reports
- Report Scheduling
- View and Print
- Export to PDF, HTML etc.
- Auto/Manual Email facility



System Security

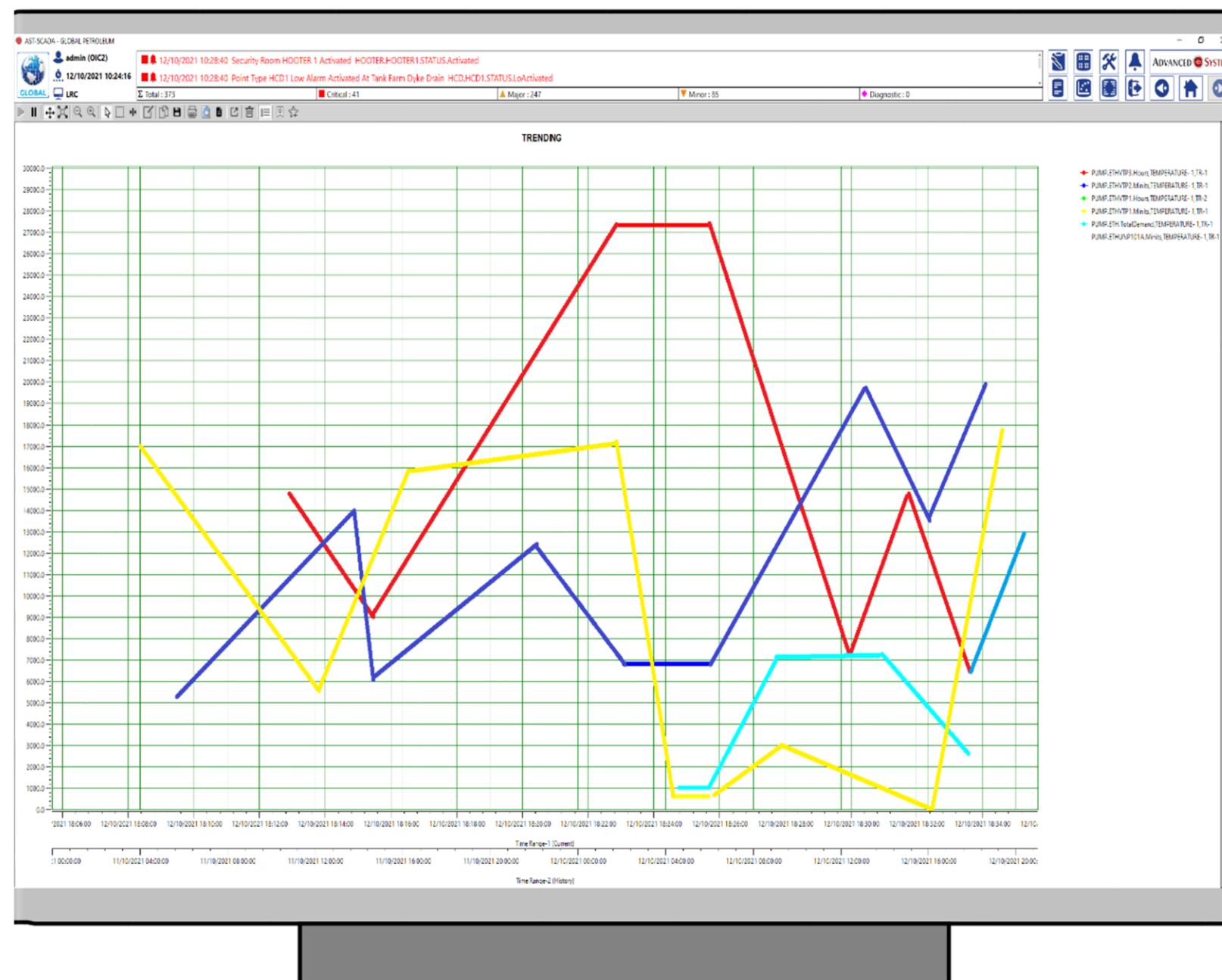
- Password and Digital Certificate based Authentication
- Role-based Authorization
- Secured and Encrypted communication between Clients-Server
- Auto Logout and Forced Logout
- High Level Data Archiving - No alteration on historical data
- Multi-Operator facility



Support for Varied range of Protocols

- AST-SCADA® enables data acquisition from instruments through varied range of protocols. AST-SCADA® supports all the universal Protocols like MODBUS TCP Master/Slave, MODBUS RTU Master/Slave, SRTP, OPC DA SERVER/Client, OPC AE Server, DF1 and other proprietary protocols

Features (Cont'd..)



High performance Historian support

- AST-SCADA® offers the option to log the data to high performance historian for analysis of system processes, equipment performance and reporting
- Providing a robust and effective data repository, the Historian enables your AST-SCADA® system to collect, archive and distribute large volumes of real-time, plant information at incredible speeds.
- Whether you're a small facility, a global pharmaceutical company or any business that needs to capture mission-critical data, Historian can help improve your profitability and productivity
- You can utilize AST-SCADA®'S powerful set of drivers and SCADA engine for data acquisition into Historian
- Simple administration allows the user to pull data from Historian with ease rights into your screen or scripts while developing your application



System Points

- Provides pre-defined information for your applications such as project and computer information, date and time, and alarms.



Easy Measurement Systems

- Enables you to develop projects and switch between different measurement systems with a simple point and click.



Ease of data exchange

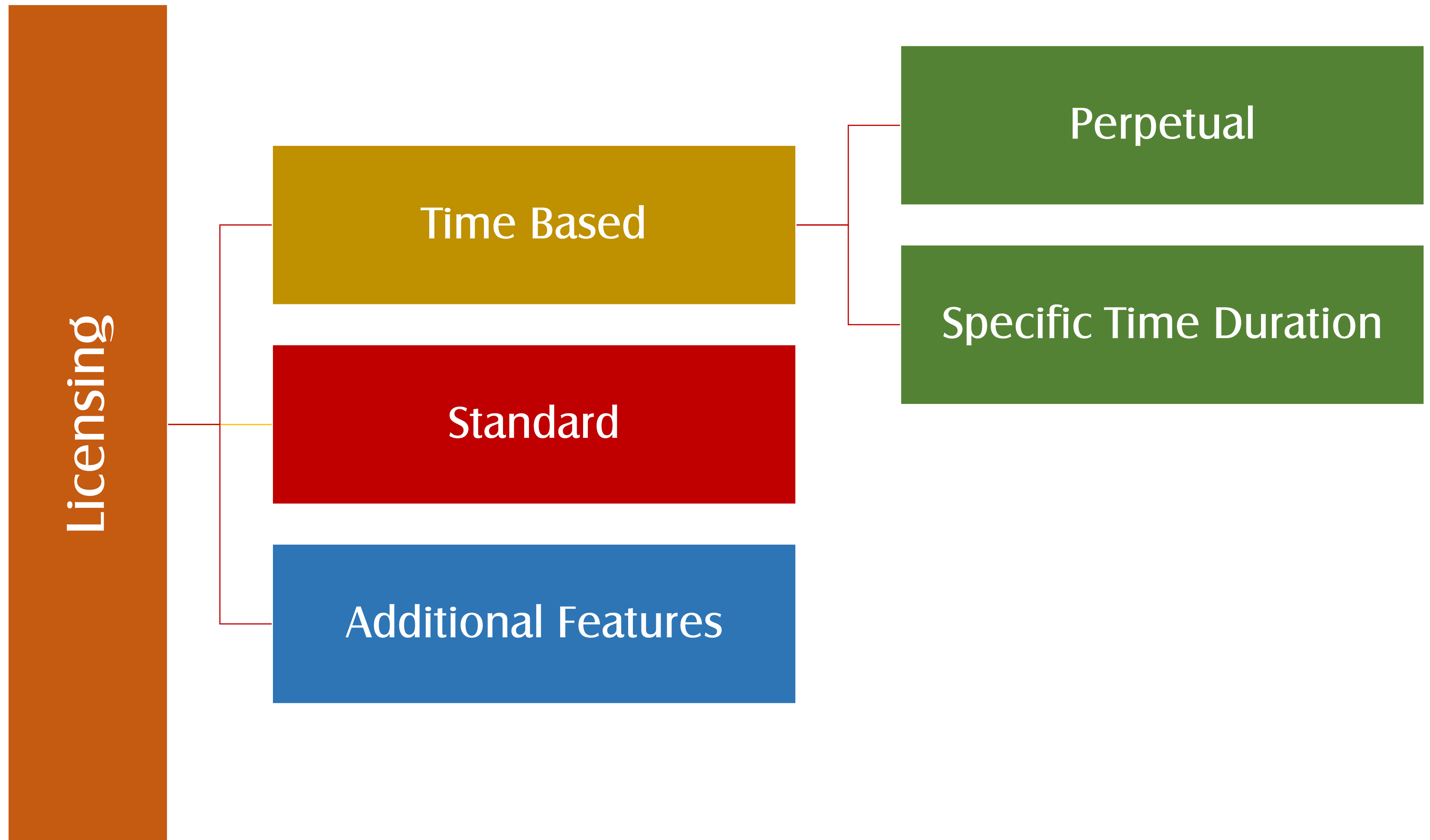
- Allows data exchange with other systems through OPC (2.0 and 3.0) server and OPC client capabilities



Help and Support

- Comprehensive inbuilt help for operator
- Optional 24 x 7 or 8 x 5 remote support and maintenance
- Ticketing System

Licensing



- Licensing support for Unlimited / Specific Number of Points / Tags
- Licensing options for Development and / or Runtime
- Customized License for Specific Need

Hardware & Software Requirement

Hardware Requirement

- Intel i5 3.0 GHz or better processor
- 4 GB RAM
- 2GB of graphics card for HMI
- 30 GB of free hard drive space

(This is the minimum requirement for a small-scale plant)

Software Requirements

- Supported operating systems:
 - Microsoft Windows Server 2019
 - Microsoft Windows Server 2016
 - Microsoft Windows Server 2012 R2
 - Microsoft Windows 10
 - Microsoft Windows 8.1

Supported:

- Microsoft SQL Server (Incl. SQL Express)
2019, 2017, 2014

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