



## Auto Trend Chart

Proactive solution to prevent abnormal shutdowns.

An equipment anomaly analysis software platform for visualizing trends in equipment operations.

# Hand over data visualization and automated chart generation to ATC.

The Automatic Trend Chart (ATC) system can "visualize historical database data and schedule automatic generation of trend analysis charts" for you.

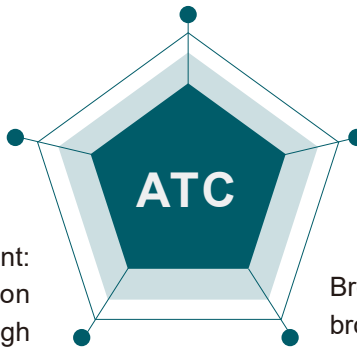
ATC resolves limitations in historical database systems , providing comprehensive analytical charts and eliminating the time-consuming manual charting process. If you face these challenges, ATC is the solution you need.

## Benefits

Integrated Cross-Database Analysis: Achieve cross-analysis by seamlessly integrating data across databases.

Contextual Annotation: Directly annotate anomaly causes on line charts to enhance contextual understanding of information.

Efficient Automated Chart Management: Schedule automated chart generation for efficient management, even with high charting demands.



Programming-Free Data Visualization: Visualize data effortlessly without the need for programming.

Browser Compatibility: Supports popular web browsers, ensuring access to charts anytime, anywhere.

## Key features

### Web-Based Display

Access charts and query anomaly causes within the factory network using browsers such as Chrome, Edge, Safari, and Firefox—anytime, anywhere.

#	Area	Data Name	IP	Data Source Type	Search
1	Historain32	Histdata32	192.168.100.32	HistData	
3	Historain32	Histdata32-1	192.168.100.32	HistData	
3	Historain32	Histdata32	192.168.100.32	HistData	
4	Influx36	Influx36	192.168.100.36	TestData	
5	PI38	PI38	192.168.100.38	PI	
6	Test0715	Histdata10032	192.168.100.32	HistData	

Regional Settings

Add	Area Setting	Actions
	Historain32	[edit] [delete]
	Histdata32	[edit] [delete]
	Influx36	[edit] [delete]
	PI38	[edit] [delete]
	Test0715	[edit] [delete]

Data source settings

### Baseline Values with Auxiliary Lines

- Uxiliary baseline - Uxiliary baseline can be set to assist in analyzing equipment operation trends and preventing deviations in operating values.
- Stacked line chart - Display multiple trend charts simultaneously, with vertical reference lines to help compare values at the same time interval.
- Relation inquiry - Quickly analyze whether monitoring points show positive or negative correlation, helping to identify the root cause of issues.
- Compared with the same period - Making trend comparison between any two selected time periods.

## Share Report Link

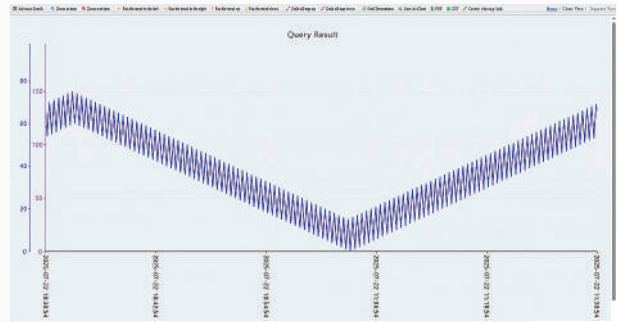
You can share the trend chart report link with others for viewing.  
It is also possible to set whether viewers are allowed to select individual data points to view detailed information.

## Seamless Integration with HMI and SCADA Systems

Seamlessly integrate ATC into the graphical control and monitoring systems, allowing onsite personnel to monitor real-time real-time operational trends and prevent equipment failures.

## Highlight Annotations and Anomaly Marking

Directly annotate key points and explain anomalies on the historical curve, facilitating contextualized information for accelerated analysis and issue resolution.



Tagpoint view

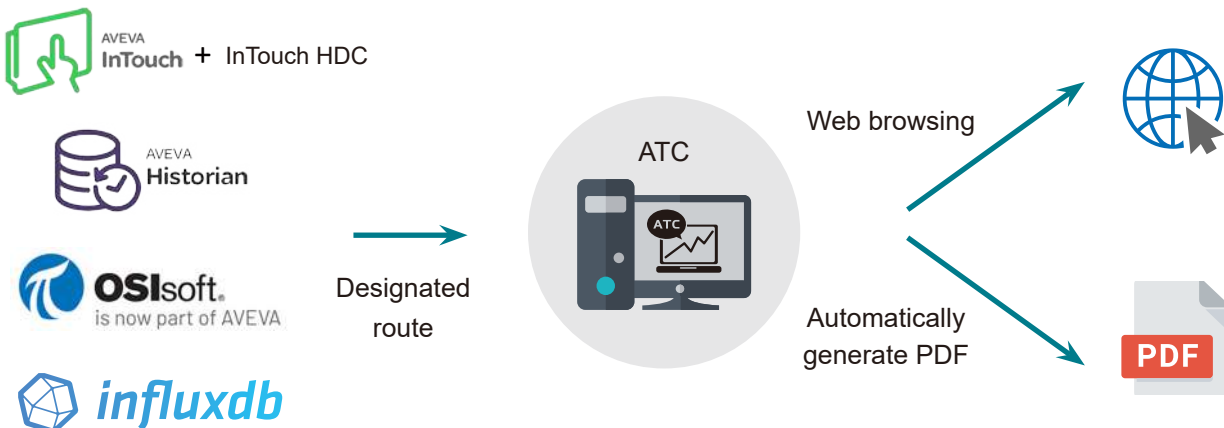


Same period comparison

## Flexible Schedule Management and Automated Chart Generation

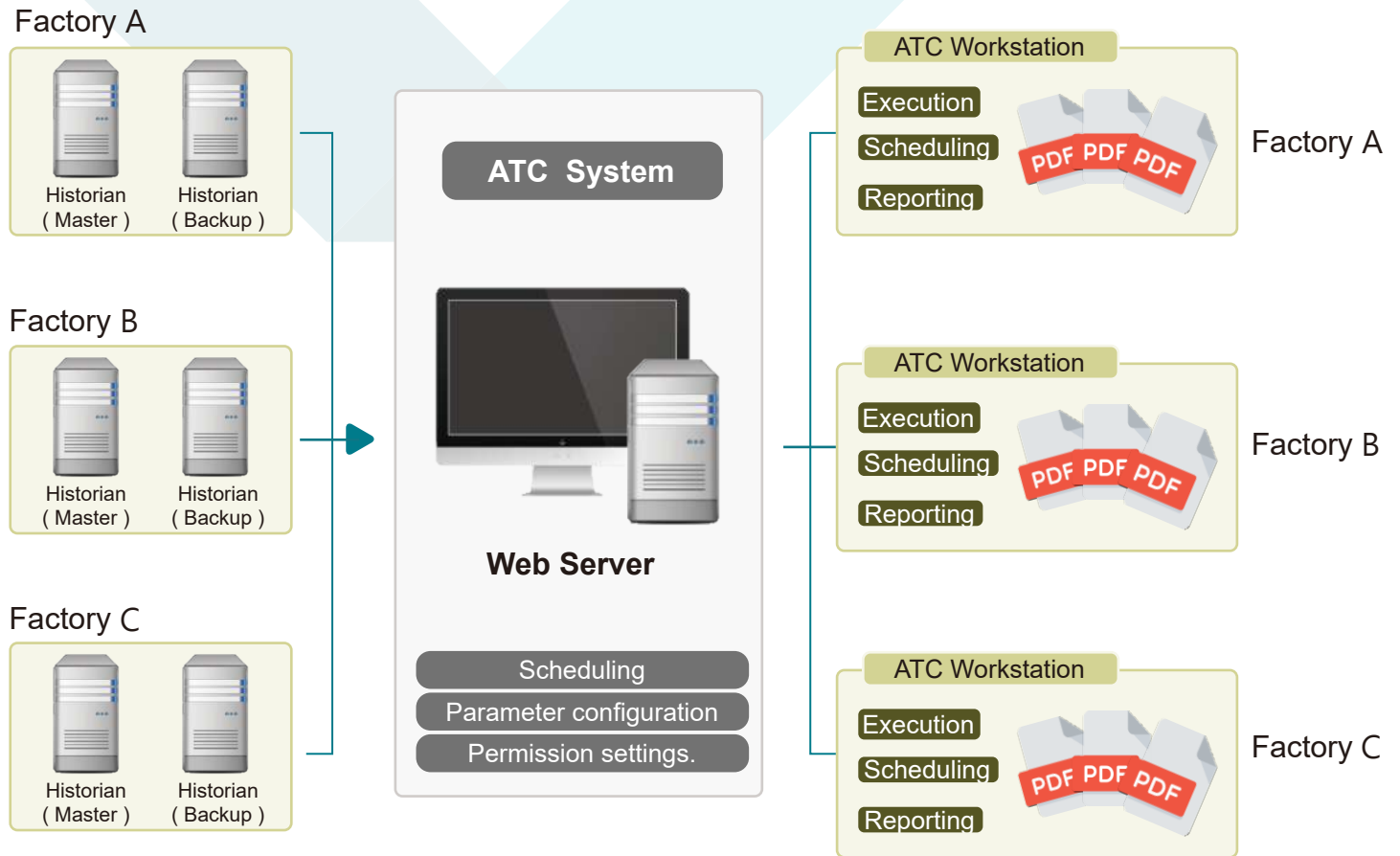
Seamlessly integrate ATC into the graphical control and monitoring systems, allowing onsite personnel to monitor real-time real-time operational trends and prevent equipment failures.

## System architecture



Supported data sources : ◆ AVEVA InTouch HMI ◆ AVEVA Historian ◆ AVEVA PI System ◆ InfluxDB  
 ※ AVEVA InTouch HMI requires integration with InTouch HDC

## Application architecture



## System compatibility



### Operating system

- ◆ Windows 10 / 11 Pro or above
- ◆ Windows Server 2022 or above; Standard / Data Center



### Supported browsers

- ◆ Microsoft Edge
- ◆ Mozilla Firefox
- ◆ Google Chrome
- ◆ Safari



### Database

- ◆ Microsoft SQL Server 2022 or above; Express / Standard / Enterprise



### Hardware requirements

- ◆ CPU : 4 cores or higher · 2.6 GHz or above
- ◆ RAM : DDR4 16 GB or above
- ◆ SSD with at least 1 TB
- ◆ Network : 1 Gigabit Ethernet
- ◆ Display : 1920 × 1080 or higher

※ Content may change without prior notice; Senwai Tech reserves the right to modify at any time. 2026. 03

# SMC

## Senway Management Console

### 1. Centralized Management

Senway management console provides an integrated interface to view the status of all hosts and installed software, making management and maintenance more convenient.



### 2. Message Broadcasting System

When system issues occur — such as license problems, critical alarms, device disconnections, or excessive host load — the system proactively notifies administrators and relevant personnel.



### 3. Information Security

Equipped with multiple security mechanisms to safeguard information, including:

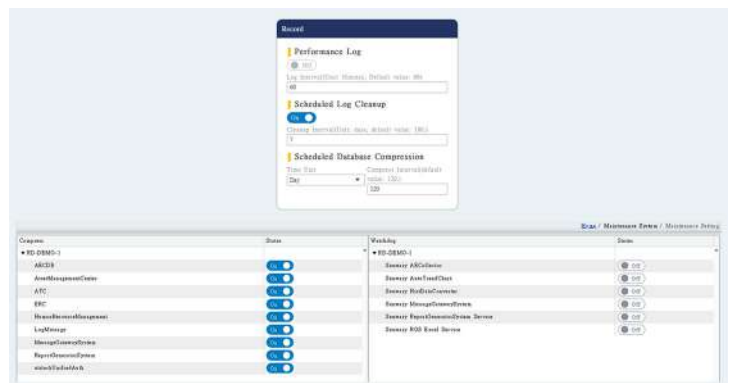
- Password
- CAPTCHA verification
- 2FA authentication
- Access control
- User whitelist / block



### 4. Maintenance System

Optimize system performance through comprehensive maintenance features:

- Scheduled cleanup of historical data
- Automated database maintenance
- Automatic Active Directory (AD) synchronization
- Service status monitoring (WatchDog): auto-recovery and restart in case of system failure
- Diagnostic tools: detect system anomalies
- System logs: record updates and changes
- Backup and restore mechanism: protect system data and prevent data loss





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