

@Station® is an Integrated Control and Protection system designed for the operation of transmission and distribution substations. The system incorporates the latest technology in the field of substation automation to provide its users with innovative solutions to their requirements.

Since establishment, we have successfully completed hundreds 110kV-220kV-500kV Substation Automation System (SAS) and Distribution Control System (DCS) for Grid Stations and Power Plants.

Our organization's products and services occupied more than **35% of Vietnam Utility's market share** as of date.

@Station® integrates all monitoring, control and automation functions into a flexible, integrated system for ease of operation.

Its modular design allows @Station® to be tailored to each project unique specifications.



ATS - @Station® Substation Solution

KEY FUNCTIONS

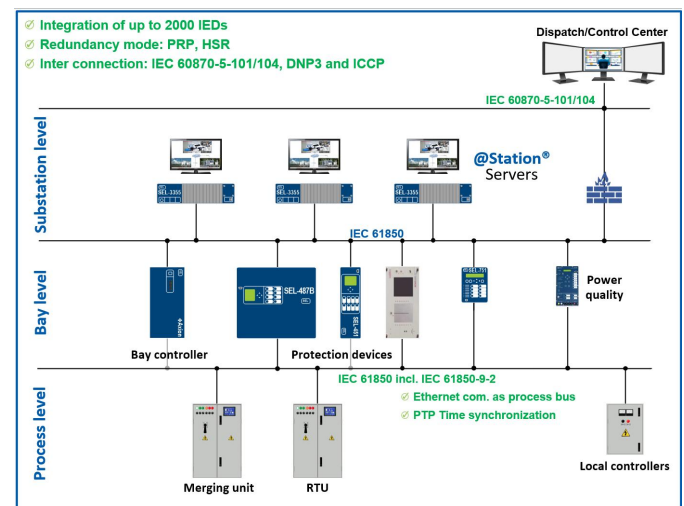
- ◆ **Supervisory Control:** @Station® allows users to seamlessly control and monitor field-level devices such as circuit breakers, switchgears and transformers.
- ◆ **Comprehensive Data Acquisition:** @Station® performs real-time data collections from equipment, relays, intelligent electronic devices (IEDs) and meter across the substation. @Station® intelligently processes device information.
- ◆ **High Availability:** Operates under both High availability Seamless Redundancy (HSR) and Parallel Redundancy Protocol (PRP), ensuring continuous substation operation.
- ◆ **Openess to Customization:** @Station® can optimize the system functionality, interfaces and parameters that align with the specific requirements of the individual substation.
- ◆ **Scalability & Flexibility:** Further infrastructure or substation expansion are available since our software and hardware solution are inherently scalable.
- ◆ **Fault Location & Fault Recorder:** @Station® identifies the source and location of a fault or disturbance in the system, enabling swift response and minimizing service disruptions, providing valuable insights for analysis and troubleshooting.
- ◆ **Substation Auxiliary Monitoring:** @Station® monitors all necessary information that follow international standards can be easily integrated on @Station®.

BENEFITS

- ◆ Modular and scalable hardware and software
- ◆ User-friendly graphic interface
- ◆ Strict IT security requirements
- ◆ Flexible, graphic project engineering for automation
- ◆ Openness from the use of standards
- ◆ Vendor independence

HARDWARE ARCHITECTURE

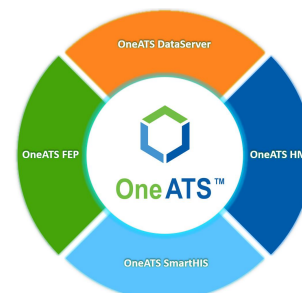
@Station® is a hardware-independent solution



Typical substation configuration with @Station® solution

SOFTWARE PLATFORM

@Station® is based on OneATS™ software platform



OneATS FEP
OneATS DataServer
OneATS HMI
OneATS SmartHIS

a powerful data acquisition software
a realtime data processing software
a HMI for supervisory control
a smart Historical Information System

COMPATIBLE PROTOCOLS/STANDARDS

- ◆ IEC 61850
- ◆ IEC 60870-5-101
- ◆ IEC 60870-5-104
- ◆ DNP3
- ◆ OPC UA/DA, Modbus TCP/RTU
- ◆ ISO/OSI (Open System Interconnection)
- ◆ IEEE 802.3 for LAN (or ISO/IEC 8802-3)
- ◆ etc.

CERTIFICATIONS

@Station® is fully certified for compliance with international standards:

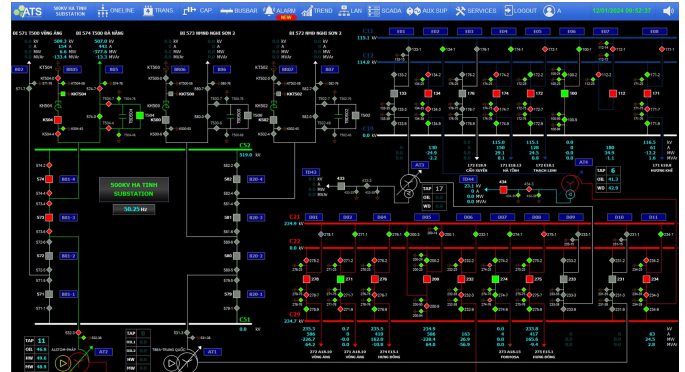
- ◆ IEC 61850 Certificate Level A issued by KEMA DNV-GL
- ◆ IEC 60870-5-101 Master/Slave Certificate Level A issued by KEMA DNV-GL
- ◆ IEC 60870-5-104 Master/Slave Certificate Level A issued by KEMA DNV-GL

@Station APPLICATIONS

- ◆ Data Acquisition
- ◆ Supervisory Control
- ◆ Alarm and Event Management
- ◆ Trending
- ◆ Tagging Management
- ◆ Real-time Relays Services

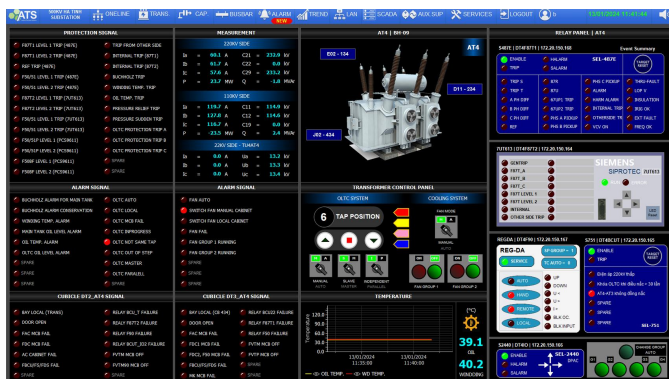
INTEGRATE @Station® into YOUR SUBSTATION AUTOMATION

@Station® provides a wide range of connectivity options as well as cutting-edge technology. With flexibility across processes, you can optimize system to meet your individual needs at practically every level.



Single-line diagram interface

- ◆ Substation Auxiliary Monitoring
- ◆ Breaker Data Monitoring System
- ◆ Transformer Data Monitoring and Analysis
- ◆ Time-series Historical Information System
- ◆ Playback, Operational Report
- ◆ Service and Analysis, etc.



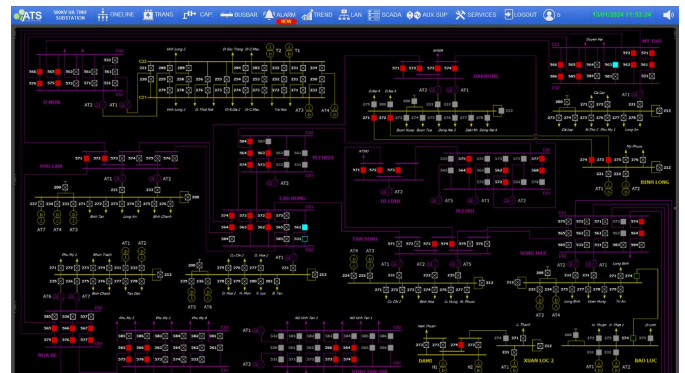
Supervisory control interface



Device Sequence of Control

- ◆ Advanced @Station® functions include: **SmartFR (Fault Record)** and **Smart FL (Fault Locator)**, optimizing substation protective systems.

Fault Record screen view



Fault Locator Centralized System

