**SYSTEM POINT** is a server-based software platform to bring unified systems and data management across the utility infrastructure, enabling end-users to manage their substation automation assets effortlessly, while remaining focused on grid and grid asset operation.

Developed specifically for the substation, system management software from Efacec integrates operational data management and system management while providing a vendor-neutral solution based on utility standards such as IEC 61850 and IEC 62351. Integrating legacy devices or WfMS (Workforce Management System) is frequently key to modernize current infrastructure and maximize user benefits when adopting a unified system management approach. Considering that utilities have different operational needs, the system management solution can be customized and extended to fit the exact needs of each customer. **SYSTEM POINT** core platform features intuitive standards-based HTML user interface which enables users to instantly access systems status and data anywhere, anytime, through both desktop and mobile computing platforms. It can be deployed in multiple configurations either in standalone station management servers, in UC 500E/H embedded station servers as well as in hierarchical systems with dedicated central servers or virtualized environments. It has been developed to minimize own configuration and management efforts.

**Key Features**

- Intuitive multi-platform and mobile web user interface
- Automated on-event or polling-based data and record retrieval, cataloguing and storage
- Access to disturbance records, fault reports and IED data logs
- Access to security events, operational events and system log files for IED and networking devices
- Automated user notifications via email with PDF reports
- IED version and status monitoring
- Effortless configuration through web interface, Automation Studio IDE or IEC 61850-6 SCL
- Centralized user management
- Scalable solution supporting local, hierarchical or centralized architectures
- Vendor independency through full support of standards, such as IEC 61850 Ed.1 and Ed.2, FTP or Syslog
- Straightforward server backup and restoration (disaster recovery)

**Customer Benefits**

- Instant access to system status and data anywhere, anytime
- Centralized management for all stations and devices in your infrastructure
- Secure remote accessibility
- Unified data and user management
- A standards-based evolving platform for unified station operations and maintenance
- Flexibility to customize solutions
Operational Data Management

Disturbances
Seamlessly captures disturbance records on-event or through polling, automatically catalogues disturbances and generates summary reports. Also enables email notifications and provides easy access to previously captured COMTRADE files for analysis.

Faults
In the same way as with disturbances, SYSTEM POINT automatically extracts and handles fault reports from Efacec devices with built-in fault report generation capabilities.

Data Logs
Modern IEDs generate vendor-specific operational log files that can be captured, stored and later accessed for correlating with other data.

Operational Events
Any IEC 61850 event captured through RCBs, GOOSE or through polling can be stored and used for notification or analysis, implementing a true system-wide SOE sub-system.

System Management

System Status
SYSTEM POINT continuously monitors the connectivity status of all managed devices, as well as the configuration versions (hardware, firmware, software and configuration) and asset nameplate information for IEC 61850 devices. This enables end-users to effortlessly track the configuration status of their systems, a fundamental cybersecurity requirement.

Security Events
Any security event including software failures and user actions within SYSTEM POINT or at any of the managed devices can be tracked through IEC 61850 or Syslog. This provides a security auditing platform that integrates all devices of each station (IEDs, networking equipment, servers, workstations, etc.).

System Logs
Both legacy and modern devices generate standards-compliant or vendor-specific system log files that can also be captured and stored by SYSTEM POINT.

User Management
SYSTEM POINT user account and information database is maintained seamlessly across the server hierarchy and follows modern RBAC principles. User management can be integrated with external LDAP or Active Directory (AD) servers and enables users to deploy systems with simplified user account, authorization, credential revocation, and access control based on utility policies.
SYSTEM POINT software is modular and can be deployed as a simple local disturbance record collector or target applications featuring local station management servers together with hierarchical enterprise server aggregating all features, thus providing a single infrastructure-wide data and system management platform.

Local station server deployment options include embedded solution within UC 500E/H station servers or software deployed over any Windows OS (workstation, server or embedded computers).

Access to managed devices, user interface, upper-level system point servers or external applications is performed through standard IP interfaces enabling full hardware choice flexibility depending on user requirements.

At each substation SYSTEM POINT software is typically deployed on a single machine. Enterprise server may be setup in a single server configuration or in multiple servers either with dedicated, shared or virtualized environments.

Due to our policy of continuous development, specifications may change without notice. Not valid as a contractual item.