HIGHLIGHTS

Empowering grid modernization for a sustainable future

zenon
15

Avoiding grid congestion, improving the management and operation of legacy sites, and building new substations and power lines – the energy industry is undergoing a massive change in the years to come. zenon 15 addresses the challenges by supporting energy companies in modernizing infrastructure, enabling renewable integration, and enhancing operational excellence. zenon empowers the energy transition, ensuring reliable energy supply and supporting a sustainable future for all stakeholders.

Connectivity updates

New SPA Driver

▶ Communicate to ABB RE_54x protection relays and SPACOM protection relays using the SPA-Bus protocol

StratonNG – Supports local buffering

▶ Overcoming communication interruptions, up to 48 hours
▶ Events and alarm creation after connection re-establishment

OPC UA Client – Support for reading historical data

▶ Access historical data from RDA archives and compare it with live values from the zenon historian, providing comprehensive insight into asset performance

IEC870 Master – Support of originator logging

▶ Tracking of actions in an architecture with multiple IEC870 Masters

ICCP Client – Support for SBO ("Select before operate")

▶ zenon as an ICCP client (via Process Gateway), is able to reflect the select and operate status of the underlying assets, which are controlled via the zenon Service Engine

HTML5 web visualization – Enhancement of the zenon Web Visualization Service

Complete solution for HTML5-based HMI in complex environments, such as substations and SCADA control rooms.

Command processing enhancements

▶ Interlocking list
▶ "Unlock all" command
▶ "Lock" and "unlock" commands
▶ Command action "status input"
▶ Support of "set value input"
▶ System driver variables

Automatic Line Coloring enhancements

▶ Dynamic network coloring (ALC)
▶ "Multiple supply" indication*
▶ "Secured supply" indication*
▶ "Short-circuit" and "ground fault"* – including fault location and acknowledgement

All visualization clients (native, web) use the same engineering base – no difference, no extra engineering.

Network Operating Authorization support

▶ Safe allocation of assets within a multi-client architecture

*Requires Topology Package

IIoT Services – Dashboarding

(Modern) Asset monitoring with IIoT Services: simple access to all data.

Dashboarding services new widgets

- ▶ Bargraph
- ▶ Table
- ▶ Gauge
- ▶ Trend
- ▶ "Website"
- ▶ Multivalue
- ▶ Sparkline

Improved management of dashboards

- ▶ Dashboard overview list
- ▶ Duplicate or delete dashboards

zenon Logic Soft PLC

Python Integration

- ▶ Utilize Python programming
- ▶ Python script editing via external coding tool (selection)
- ▶ Asynchronous execution of scripts, triggered by PLC function block
- ▶ Variable exchange via fieldbus configuration

Unified and integrated architecture for both process calculation and automation (IEC 61131-3) and advanced data analytics (Python).

Support of IEC 61131-10 (PLCopen)

- ▶ XML-based exchange format for the export and import of IEC 61131-3 projects

Migrate PLC applications effortlessly from third-party systems to zenon Logic!

zenon Service Engine – Linux OS support

zenon Network support

▸ Linux Service Engine can act as process server for a Linux or Windows-based client*

Remote Transport support

▸ Project download directly from zenon Engineering Studio
▸ Service Engine start, stop, reload etc. from Engineering Studio

User Management enhancements

▸ Local User Management support
▸ User Management via Identity Service

Energy Gateways

▸ IEC 60870 Slave (-101 serial, -104 TCP/IP)
▸ DNP3 Outstation (serial, TCP/IP)

Energy Drivers

▸ IEC 60870 Master (-101 serial, -104 TCP/IP)
▸ IEC 61850 MMS Client
▸ DNP3 Master (serial, TCP/IP)

zenon Logic Fieldbus Drivers

▸ MQTT-Client
▸ EtherNet/IP Adapter and EtherNet/IP Scanner

*Linux and Windows SE are compatible (i.e. Server/Client) and use the same engineering files – no extra engineering effort when combining or switching between Linux and Windows.

Additional enhancements

zenon User Management

▸ Extension of authorization levels (65535 levels in total, former limit: 127)

AML/CEL Comments

▸ Extended to up to 255 characters (former limit: 79)

IEC 62443-4-2 Mapping Table in Online Help

"Technical security requirements for Industrial Automation and Control Systems components"

▸ Quick and simple help for IEC 62443-4-2-related questions during RFIs