

zenon 11

Solutions to meet tomorrow's challenges

With its MTP Suite, zenon 11 introduces a powerful tool to help companies ensure their manufacturing processes remain flexible enough to meet future challenges. The new version of the zenon software platform also includes enhancements to the Batch module and Report Engine. Additionally, more extensive web visualization and added interfaces ensure a positive impact on your business.



In zenon 11, Alarm Shelving helps users to manage fault alarms securely. It is required for alarm handling and control system functionality according to ISA-18.2-2016 and IEC 62682. State-of-the-art, multifactor authentication provides additional security against unwanted access. In addition, zenon networks can now be encrypted with TLS v1.3 certificates.

PLUG & PRODUCE WITH MODULE TYPE PACKAGE

The cross-industry and cross-manufacturer "MTP" standard supports consistent modularization in production. As of version 11, this standard is now supported natively by zenon. Large parts of the control and regulation intelligence system have been shifted to modules that can be easily orchestrated in a higher-level process orchestration layer (zenon POL) and adapted to production requirements. Smart objects provide the basis for these activities. zenon POL and Engineering Studio interact automatically and seamlessly. All work steps are transferred independently to zenon Service Engine. This results in a process control system (PCS) or distributed control system (DCS) being generated fully automatically.

FAST FACTS

- ▶ State-of-the-art security based on multifactor authentication
- ▶ Orchestrate processes with the MTP standard
- ▶ Improved usability and greater process reliability with the zenon Batch module
- ▶ Alarm list, event list, and Extended Trend in Web Engine
- ▶ Werum MSI and CIM-CGMES interfaces provide new options

BATCH REPORTING AND REDUNDANCY

With zenon 11, the zenon Batch module gains improved usability. Synchronization with archives has also been implemented with the aim of making configuration easier. Reports are generated automatically as soon as a batch is finished. Another highlight of this version is the continuous synchronization provided by zenon between the server and the standby, thanks to reliable redundancy. So batch processing continues, even if the server goes down.

BROWSER VISUALIZATION

HMI solutions benefit from the new web-based visualizations. Plus, the new version supports alarm and event lists, standard screens and extended trends. For example, Gantt charts are displayed directly in the browser and updated in real time. For the first time, engineering is realized without additional compiling for HTML5. It is also now possible for several users to work with the service engine independently and in parallel via the browser.

ON-DEMAND CONNECTIVITY

zenon 11 includes new interfaces. The Werum MSI Interface is a connector that can be configured in conjunction with zenon Service Engine. It enables machines and production lines to be connected to Werum PAS|X. This is a useful innovation for companies in the life sciences industry. In the energy industry, the CIM-CGMES interface builds on Automatic Line Coloring and Equipment Modeling in zenon to ensure the creation of network models within the framework of the legal requirements of Redispatch 2.0.

REPORTING MADE EASY

Efficient evaluation and processing of data is becoming more and more important and zenon is doing its part to help customers. With zenon 11, Report Engine is now connected to Data Storage. This allows the historical data stored there to be used for reports. Continually exported alarm and event lists can also be kept in Data Storage.

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Highlights at a glance	<ul style="list-style-type: none">▶ TLS v1.3 encryption for zenon networks▶ Multifactor authentication▶ Identity Service supports OpenID Connect and Keycloak▶ Alarm shelving
Connectivity	<ul style="list-style-type: none">▶ CIM-CGMES interface for the energy industry▶ WERUM MSI interface for the life sciences industry
Web visualization	<ul style="list-style-type: none">▶ Web-based in zenon Service Engine: standard screens, Extended Trend module, AML and CEL, login screen▶ Multiple session support
MTP	<ul style="list-style-type: none">▶ Create MTP files in MTP Editor▶ Orchestrate instances generated using drag & drop▶ Validate new MTP files directly during configuration
zenon on Linux	<ul style="list-style-type: none">▶ Platform-independent driver interface▶ Supports the Service Grid Ingress Connector
Batch module	<ul style="list-style-type: none">▶ More information about recipe execution in the CEL (incl. parameter values)▶ Advanced filter options for the CEL for batch execution▶ Synchronize and link batch archives and batch recipes▶ Generate reports automatically and export after a batch has been completed
zenon Report Engine	<ul style="list-style-type: none">▶ Report Engine can read files stored on the SQL server▶ Utilize alarms and events exported continually from Data Storage▶ Connect Report Engine to Data Storage▶ Automatically select connectors: import data from SQL server or Data Storage, and query missing data from Service Engine