
SALES INFORMATION

ABB Ability™ Operations Data Management zenon 8.00 Release Information

We are proud to release ABB Ability™ Operations Data Management zenon 8.00.

1 Information – Integrity - Insight

As an open HMI and Operations Data Management System, zenon securely delivers supervision, control, data acquisition, scheduling and performance reporting to production and distribution assets, scaling from single machines to complete production lines and infrastructures. With its more than 300 supported communication protocols, native drivers and simple to setup cloud interfaces, zenon connects to any important component in Automation, Electrification and Building/ Infrastructure. zenon becomes a universal component as data collector, data router and information analyzer and presenter in heterogeneous environments of the Internet of Things. zenon is protected by a security system designed for being deployed into a critical infrastructure.

Its multi user engineering capabilities and object oriented design ensures low startup cost and high engineering productivity for our customers. The long life cycle of ten years and backwards compatibility help protecting our customers investment.

With its annual release cycles, zenon offers new functionality on an ongoing basis, which makes work more ergonomic for both the engineer and the operator. We would like to particularly emphasize these highlights in ABB Ability™ ODM zenon 8.00:

2 New functions in ABB Ability™ ODM zenon

ABB Drives Integration

ABB Drives Faceplates in ABB Ability™ ODM zenon improve the ease of integrating our drives to solutions that deliver value to your customers. Besides operations and control interaction, our faceplates provide deep insight to the drive status and lifecycle information.

Alternative Data Points

If invalid data is sent by the PLC, the operator experiences a loss of functionality, which can mean they are unable to carry out their work. The Alternative Data Points counteract invalid data in your archives and ensure increased robustness. Values from PLCs can be recorded redundantly or via various communication channels. Alternate values generated by means of simulation in the event of data loss increase the validity of the recorded data

Optimizations in Extended Trend

Thanks to the numerous new features and optimizations in Extended Trend, project creators and users benefit from enhanced usability. Engineering in particular has become much more efficient, as index substitution has been enabled for curve variables, for example. Graphical representations of archived data can be engineered faster and more intuitively – the engineer is provided with the best-possible assistance when creating effective diagrams.

It is now even easier to present users with precisely the information that is of interest to them. Variables can be dragged & dropped in the diagram window, providing users with a better overview more quickly. A configurable popup screen displaying the trend delivers quick information about a specific variable.

Production analysis based on shift data

Process data in the Alarm Message List, the Chronological Event List, or even in Trends and Reports can be filtered based on shifts. This enables informative production analyses including shift data to be carried out.

Expansions in Batch Control

Master recipes in zenon Batch Control can now be released automatically. A recipe can be created in an external program, then automatically imported and released for production. This allows a fully automated workflow to be established. Touch operation for batch recipes has also been significantly enhanced.

Energy: distribution management

With respect to energy automation, further functionalities relating to a Distribution Management System are being developed in zenon. The two modules – Load Flow Calculation and State Estimator – enable grid calculations in the context of energy distribution. These can then be used to derive further calculations, such as topologic interlocking from the grid calculation or the (n-1) calculation.

Usability when creating screens and symbols

Screens and symbols can now be created faster and more intuitively. In particular, the first steps for new zenon users are simplified.

Statistical Process Control with zenon Analyzer

zenon Analyzer 3.20 offers reports for statistical evaluations of production quality at the touch of a button. Statistical Process Control (SPC) is often used to measure and assure quality in production settings. Alongside standard SPC reports (Process Capability, Control Chart, and Histogram), the zenon Analyzer also provides other statistical reports: Boxplot, Trend with Limits, or XY Chart can also be generated. These analysis options can be used to monitor the stability of production quality. Deviations can be identified at an early stage and production losses due to poor quality can be avoided.

Predictive Analytics

The zenon Analyzer 3.20 uses the new Predictive Analytics reports to produce smart analyses. The use of Predictive Analytics enables decisions to be made based on past values and with the assistance of prediction models. zenon Analyzer supports two types of prediction. Time-based prediction forecasts how a value will develop over time. Value-based prediction shows how a value behaves if another value changes (e.g., to estimate energy consumption in the event of a change in production quantity).

To configure prediction models, the Prediction Model Manager has been introduced as a new tool in the zenon Analyzer Management Studio (ZAMS). The Prediction Model Manager includes wizards for the step-by-step creation of prediction models.

Calculated Fields

The “Calculated Fields” function enables the data collected to be modified so that it is suitable for custom calculations. The Calculated Fields are configured and maintained in the zenon Analyzer Management Studio. Example applications for Calculated Fields include converting one measuring unit into another and merging or adding data, along with many more. The Calculated Fields increase flexibility in reporting, because reports can be customized to meet a user's own specific requirements. For those in charge of creating projects, the Calculated Fields speed up engineering, as they no longer need to be post-edited manually in the Report Builder every time a report is issued.

An overview of further new features

Performance improvements - Increased performance when modifying and distributing values | Secure, continual value supply for archives with cyclic recording | Runtime monitoring of driver connection | Increased performance when starting up Standby Server

Extended Trend - Variable selection dialog redesigned | Automatic selection of relevant archive in Runtime | Graphs, axes, and diagram support styles | Improved representation of axes | Zoom function with the mouse wheel in diagram window in Runtime

zenon Process Recorder - Playback of project evolution in replay mode

Batch Control - Configuration of modifiable limits | Predefined parameter values to simplify use of Batch Control | Optimizations for touch operation

User administration - Access to Active Directory, even if the PC is not in the domain

Licensing - License manager as new administration tool for online and offline management of licenses | Remote licensing | More than one licenses can be activated at once | Redundant dongle licensing | Several licenses on one dongle

3 Ordering

ABB Ability™ Operations Data Management zenon can be ordered through your local ABB sales organization or contact zenon.sales@abb.com for more details and pre sales support.

Kind regards

ABB Ability™ Operations Data Management zenon Product Management and Team

4 References

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zenon Order Information	http://search.abb.com/library/Download.aspx?DocumentID=3ADR090006M0760&LanguageCode=en&DocumentPartId=&Action=Launch
zenon Brochure	http://search.abb.com/library/Download.aspx?DocumentID=3AUA0000203778&LanguageCode=en&DocumentPartId=&Action=Launch
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