
SALES INFORMATION

ABB Ability™ zenon 12.0.0

Release Information

We are proud to release ABB Ability™ zenon 12.0.0.

With this, we take another step toward full digital connectivity in the automation of power and productivity, keeping our users in full control of their production data.

1 The SCADA for the Energy Transition

ABB Ability™ zenon is ABB's on-premises and on-edge SCADA platform for secure Digitalization and management of power distribution, renewable energies, water and infrastructure. It as well facilitates the management of distributed energy resources.

ABB Ability™ zenon provides supervision, control and automation, alarm and event handling, historian, real-time reporting, analytics and optimization, and asset management.

ABB Ability™ zenon secures grid stability through load flow calculation, state estimation and functions for the location of faults, as well as the automated restoration of supply.

With its more than 300 supported communication protocols, native drivers and simple to setup cloud interfaces, ABB Ability™ zenon connects to any important component in Electrification, Process Automation and Building/ Infrastructure.

ABB Ability™ zenon stands out with superior connectivity, scalability and flexibility.

ABB Ability™ zenon ensures full control of sensitive operations data for its users. The platform's security is designed to be smartly integrated into all processes and systems in critical infrastructure.

At release, no unhandled cyber security vulnerabilities exist. ABB Ability™ zenon is tested by our DSAC (Device Security Assurance Center), according to the latest ABB's Cyber Security Requirements for Products. Any cyber security issue found after release will be actively communicated through abb.com/cybersecurity and immediately taken care of.

Its multiuser low code engineering capabilities and object-oriented design ensure 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.

Trainings are available on mylearning.abb.com, and can be requested at zenon.training@abb.com.

With ABB Ability™ zenon, ABB targets System Integrators and OEMs in the following verticals to support LV/ MV switchgear, drives, PLC and robot solution sales:

Substation Automation	Distribution Management
Renewables	Water/waste water
Buildings and Infrastructure	Data Centers

With its annual release cycles, ABB Ability™ zenon offers new functionality on an ongoing basis, which makes work more convenient for both, the engineer and the operator. We would like to particularly emphasize these highlights in ABB Ability™ zenon 12.0.0:

2 Featured in ABB Ability™ zenon

Distribution Management

A distribution management system (DMS) assists operators and maintenance personnel in improving the reliability and quality of service of their grid operations in terms of reducing power outages, minimizing outage time, maintaining acceptable frequency and voltage levels. ABB Ability™ zenon offers key functions of a DMS:

ABB Ability zenon **GIS (Geographic Information System)** offers a geographical map view on a grid and the interaction with the map. The grid view can be used to present real time information on the grid status like fault locations, loads or weather conditions, and interact with the grid.

ABB Ability™ zenon **Load Flow Calculation** calculates the resulting load for lines and transformers in a network, if one component fails, and visualizes the consequences, including probabilities of component failures, or a network overload.

The ABB Ability™ zenon **State Estimator** can reconstruct unmeasured voltages and phases/phase differences of the individual busbars in a power network, if, at the nodes in the topological network, not all power in or out is known for a Load Flow Calculation.

ABB Ability™ zenon supports the **Fault Location, Isolation and (Service) Restoration (FLI(S)R)** in electric grids, uses GIS or Single Line Diagram views to mark the parts of a network that have a ground fault or earth fault. Automated switching sequences support the fast restoration of power supply.

ABB Ability™ zenon **Load Management** implements energy supply management for small and medium-sized power supply companies and for industrial firms whose energy supply is arranged by special contracts. ABB Ability™ zenon Load Management integrates short-term forecasting to avoid load peaks and to automate load shedding, as well as the optimization of the averaged energy consumption of a billing period.

Through the integration of ABB Ability™ zenon with other other Energy Management and optimization packages like ABB Optimax, a **Distributed Energy Resource Management System (DERMS)** can be facilitated.

Cyber Security

ABB Ability™ zenon SNMPv3 Gateway released with the support of an MIB file creation for a connection to 3rd party Network Management System. For the separation of data, multiple gateway instances can be run with individual settings.

ABB Ability™ zenon Logic MQTT client now supports MQTT 3.1 and 3.1.1 with TLS.

zenon.support@abb.com are happy to help our customers designing an ABB Ability™ zenon cyber secure system architecture and to apply our ABB Ability™ zenon Threat Model to concrete solutions. ABB ZEE600C offers an ABB Ability™ zenon hardware appliance with pre-configured cyber security.

Documentation

The ABB Ability™ zenon Technical Manuals and API Documentation is now available online at <https://help.zenon.abb.com>. The documentation search function allows for fuzzy search and search with regular expressions. Printing is supported.

Updates on User Experience

The ABB Ability™ zenon Template project has been updated to meet the latest ABB User Experience and multi-monitor capabilities have been added.

Web Visualization

Flexibility and remote access, are key factor for future-proof systems and processes in the Industrial IoT. For this reason, the capabilities of the Web Visualization have been upgraded extensively with ABB Ability™ zenon 12. Alongside performance enhancements to support 100+ concurrent web clients, it has now Command Processing, the Equipment Model screen, as well as the integration of more visual elements.

3 Ordering

ABB Ability™ zenon can be ordered through OMS and BOL. Alternatively, please send your orders as signed pdf to zenon.sales@abb.com. Please contact zenon.sales@abb.com for more details and pre sales support.

When sending an order by eMail, please make sure that your correct organization's ICV Code, Business, Business Lines and contact details are mentioned on the order

In any case, if there is no other agreement with your organization, attach a filled and signed **End Use Certificate**.

Our factory reference is

ABB AG	Payee ABACUS: DECMS
Oberhausener Str. 33	Payee Netting: DECMS
40472 Ratingen, Germany	Payee BU/PG: ELDS/ 3402
	Payee TCD: 9AAV100484
	Payee ETCD: 9AAV100484

ABB4ABB T&C apply, Incoterms 'CPT' apply.

As delivery method, please use '645 eMail' (OMS, BOL) or 'eMail' (SAP). We will deliver the licenses attached to an eMail to the ABB person referenced in the order. Our standard delivery lead time is four business days. We deliver at the requested delivery date.

ABB Ability™ zenon order numbers have been updated to 1SAS05XXXXR**1200** for version 12 instead of 1SAS05XXXXR**1100** for version 11.

The naming of the zenon components has changed.

Until version 8.20	As of version 11 (short)	As of version 11 (long)
zenon Editor	Engineering Studio	Engineering Studio
zenon Logic Workbench	Logic Studio	Engineering Studio – Logic
zenon Analyzer	Report Engine	Report Engine
zenon Analyzer Management Studio	Reporting Studio	Engineering Studio – Reporting
ZAMS	Reporting Studio	Engineering Studio – Reporting
zenon Runtime	Service Engine	Service Engine
zenon Logic Runtime	Logic Service	Logic Service
Report Launcher	Report Launcher	Report Launcher
Service Grid	Service Grid	Service Grid
zenon Web Server	Smart Server	Smart Server
zenon Web Client	Smart Client	Smart Client

The latest price lists were sent in March 2024, all previous price lists are invalid.

4 Life Cycle

ABB Ability™ zenon versions lower than 8.20 are now limited.

ABB Ability™ zenon 8.20 is now classic.

We will send ABB Ability™ zenon 11 to classic in Q424 and ABB Ability™ zenon 8.20 to limited in Q425.

Version	2022	2023	2024	2025	2026	2027	2028	2029	2030
ABB Ability ODM zenon 7.50	L	L	L	L	○	○	○	○	○
ABB Ability ODM zenon 7.60	C	L	L	L	L	○	○	○	○
ABB Ability ODM zenon 8.00	C	L	L	L	L	L	L	○	○
ABB Ability ODM zenon 8.10	A	C	L	L	L	L	L	○	○
ABB Ability ODM zenon 8.20	A	A	C	C	L	L	L	L	L
ABB Ability ODM zenon 11.0.0		A	A	C	C	L	L	L	L
ABB Ability ODM zenon 12.0.0			A	A	C	C	L	L	L
ABB Ability ODM zenon x				A	A	A	A	A	A

ABB Ability™ zenon Lifecycle

Kind regards

ABB Ability™ zenon Product Management and Team

5 References

Website	www.abb.com/zenon
Order Information	https://search.abb.com/library/Download.aspx?DocumentID=9AKK107992A5059&LanguageCode=en&DocumentPartId=&Action=Lunch
Release Notes	https://search.abb.com/library/Download.aspx?DocumentID=3AXD50000340651&LanguageCode=en&DocumentPartId=&Action=Lunch
Sales	zenon.sales@abb.com
Support	zenon.support@abb.com
Training	zenon.training@abb.com
eLearning	<p>ABB Ability zenon Sales Training - https://mylearning.abb.com/coursepage/38688/ExpertusONE_1</p> <p>ABB Ability zenon Basic Technical Training - https://mylearning.abb.com/learningpage/4609/ExpertusONE_1</p> <p>ABB Ability zenon Energy Technical Training - https://mylearning.abb.com/learningpage/4658/ExpertusONE_1</p>
Marketing Sharepoint	https://abb.sharepoint.com/sites/zenonOperationsDataManagementTeamspace/SitePages/Home.aspx
Sales Presentations	https://abb.sharepoint.com/sites/zenonOperationsDataManagementTeamspace/SitePages/Sales%20and%20Marketing.aspx
Download	www.abb.com/zenon
Internal Temporary License	zenon.support@abb.com
End Use Certificate	https://abb.sharepoint.com/sites/zenonOperationsDataManagementTeamspace/Sales%20and%20Marketing/Tools/EUC/EUC.doc
ABB4ABB T&C	https://go.insideplus.abb.com/docs/librariesprovider24/legal/abb4abb-(2018-1).pdf

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