zenon 8.10

Enhanced features and improved functions

The 2019 release provides numerous improvements and upgrades with the aim of optimizing performance, user-friendliness and, of course, connectivity.

CONTINUOUS PERFORMANCE IMPROVEMENT

In preparation for the release of zenon 8.10, COPA-DATA took its inspiration from current customer projects to drive intensive improvements. Thanks to the many new measures implemented, the platform is ready today for the challenges of tomorrow. Optimized code in the core components, improved algorithms, and the targeted application of caching functions have resulted in noticeable improvements in runtime performance. In addition, the start-up time for zenon Editor has been reduced dramatically. In terms of engineering, zenon 8.10 offers developers time savings of up to 97% when bulk processing, for example, lists of variables. This enhancement is based on grouping or sorting variable parameters more efficiently. Version 8.10 also enables spontaneous and triggered archives to benefit from the full power of multi-core systems. As a result, zenon now to processes up to 150,000 value changes per second.

IMPROVED USER-FRIENDLINESS

In the Extended Trend Module (ETM) variables can now be added to the display via drag & drop. With zenon 8.10, users will be able to adjust the curve display in runtime. The color of an axis can now be transferred from the curve color (as an option). This prevents visual confusion of the axis and curve, and provides a better overview. The new option of reading values directly off the curve offers the same advantages. The Industrial Maintenance Manager (IMM) has also been optimized as part of the new version. New filter options such as a time filter or a pop-up maintenance screen improve the look and feel of the software platform. The direct integration of IMM with other zenon modules, such as the Chronological Event List (CEL), further enhances the software's user-friendliness.

MORE FLEXIBILITY IN BATCH-BASED PRODUCTION

For a more specific configuration, Batch Control in zenon 8.10 offers users more unit classes. Users can now create generic recipes and decide at the start of the process which equipment to use, instead of preparing a separate recipe for each unit. This new approach removes the reliance on specific units, and benefits companies through greater flexibility in batch-based production.

ENHANCEMENTS TO THE WEB ENGINE

Through the process of continuous improvement, the entire core component of the Web Engine has been upgraded. The move to the .NET core framework provides a strong, platform-independent foundation for the future, and supports the move toward even greater connectivity. In addition, performance has been improved to accommodate the increasing demands on hardware. Depending on the number of elements and screens, the Web Engine in zenon 8.10 is three to four times faster than the previous version. Plus, because the Web Engine now supports the Combined element, pop-up windows are (as an option) a thing of the past. Users further benefit from a wide range of new graphical options. Alongside the Combined element, the Web Engine also supports Released properties. This generates major time savings in engineering. The application operates exactly the same as in zenon Runtime.

With zenon 8.10, users can also evaluate limit violations and run functions supported by the Web Engine, such as configuring set values or screen switching.

FAST FACTS

- Improved performance thanks to numerous code updates in the background
- More user-friendly operation in Editor and Runtime
- Enhanced flexibility in Batch Control
- Web Engine support for Combined element
- Web Engine support for Released properties

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Overview

Performance improvements	▸ Faster grouping of parameters ▸ Optimized algorithms and caching function
User-friendliness	▸ Drag & drop functionality in ETM ▸ Match trend curves and axis color ▸ Read values directly from the trend curve ▸ Integration of IMM with Chronological Event List (CEL)
Unit classes	▸ More flexibility in batch-based production ▸ Equipment for generic recipes can be set at the start of the process
Web Engine	▸ Upgrade to the .NET core ▸ Support for Combined element ▸ Support for Released properties ▸ Reporting of limit violations
	For more details about zenon 8.10, please refer to the release notes.

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