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EVA ICS® Machine Learning Kit

Revolutionary Industrial IoT solution from Bohemia Automation

designed specifically for data analysts and specialists, the ML kit offers several advantages over traditional methods of querying data directly from databases.

Key features of the ML kit include:

- Ability to collect data from multiple databases simultaneously, including time series, SQL, or custom services.
- Data export in Pandas and Polars, Arrow or CSV stream that can be loaded quickly on the client side.
- Use of the same authentication and authorization mechanism as HMI services, eliminating the need for additional access setup.
- Delivery of fully prepared data frames as a true Apache.
- Support for data stream compression during transfer, ensuring faster and more efficient parallel data collection from multiple databases.
- Full integration with the EVA ICS v4 environment.

In addition to these features, the ML kit includes tutorials for typical IoT data processing with AI, offering incredible opportunities for system modelling and testing.

With a user-friendly web interface, the release version of the ML kit provides quick code generation for Python and R, data chart construction, and data export in Apache Arrow/CSV formats.

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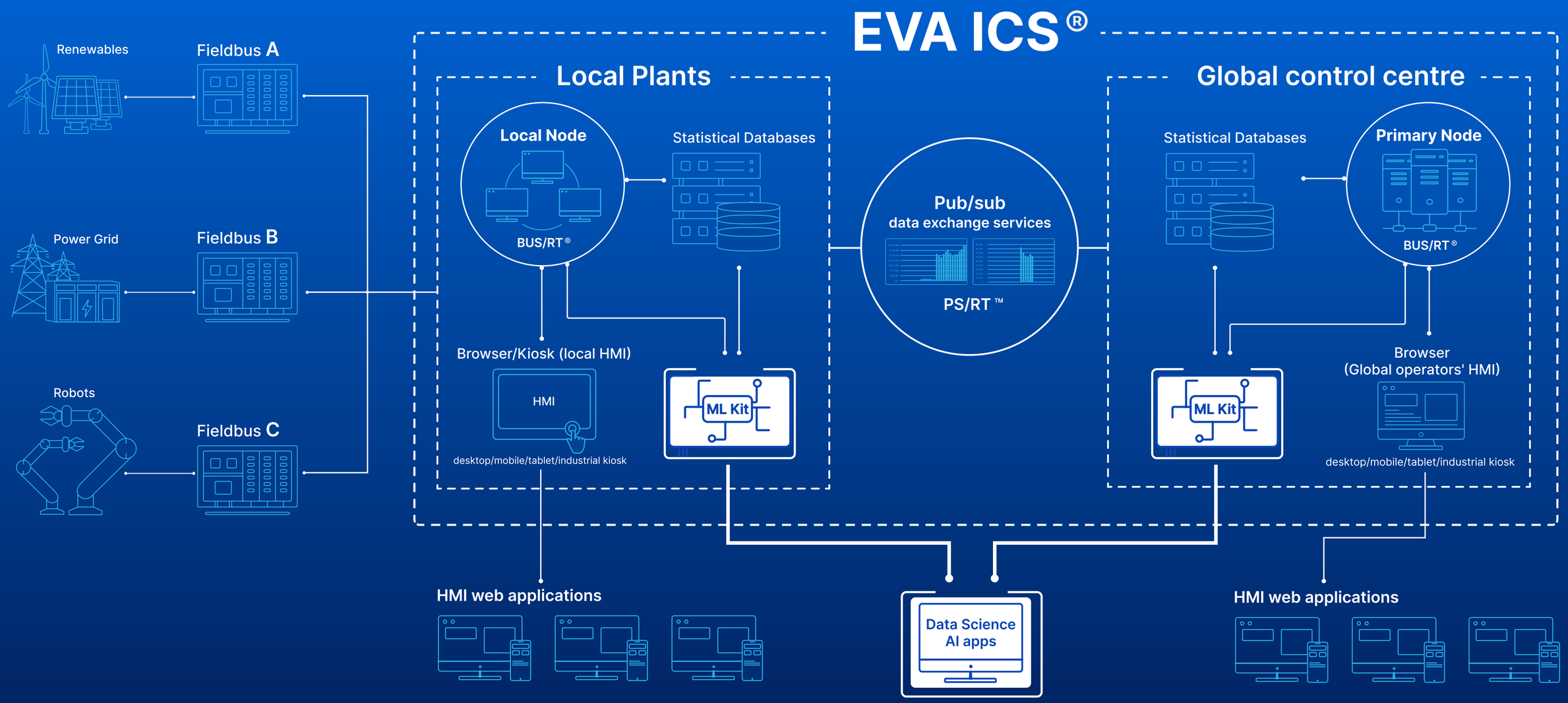
SCADA / Extended Automation Platform



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Key facts for engineers

- EVA ICS is a platform of modern in-house IIoT technologies and protocols designed for Industrial applications.
- EVA ICS v4 is the world's only cloud-SCADA platform fully written in Rust, one of the world's fastest and most reliable modern system programming languages.
- EVA ICS is the only cloud-SCADA platform that completely supports Infrastructure-as-Code (IAC) DevOps technology.
- EVA ICS builds are created with two dedicated build servers, which nearly eliminates any bit-flipping in binaries.
- The platform's quality has been verified in production for years.
- Fieldbuses out-of-the-box: Modbus, OPC-UA, 1-Wire, Ethernet/IP, TwinCAT/ADS PSRT is the in-house wide-area network pub/sub protocol, developed especially for industrial applications and fully optimized for EVA ICS.
- BUS/RT is an in-house IPC bus that combines the best aspects of IPC approach, starting from Erlang/OTP and ending with modern IPC techniques. It was developed especially for modern, low-latency, heavy-loaded applications.
- ML kit server allows building data frames with billions of cells in a few seconds

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Since 2012, Bohemia Automation (formerly the automation department of Altertech group)
has been a pioneering company in the development of new IIoT technologies and cloud-SCADA products.