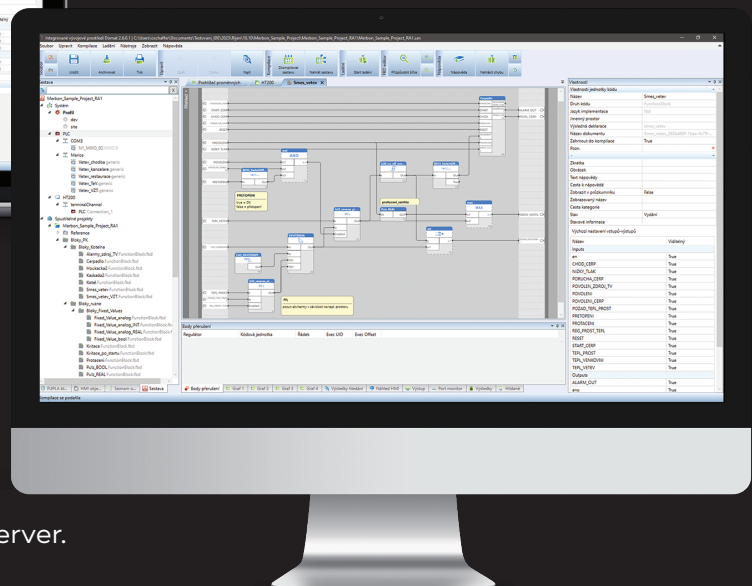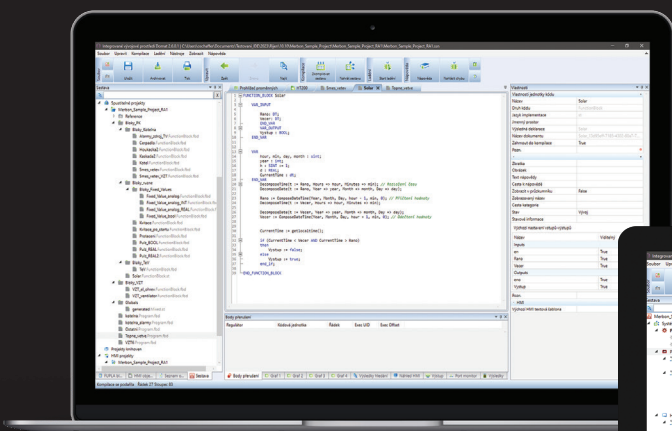# domat
IDE

Development environment, PLC programming

Clear development environment in which **mark/wall process stations** are programmed and config-ured. Programming according to the **IEC 61131-3 standard** is done via **function blocks (FUPLA)** or **structured text (ST)**. It helps to save service costs and ensures comfortable commissioning. Domat IDE also serves as a graphics editor for the web, LCD menu and the Domat Visual app.
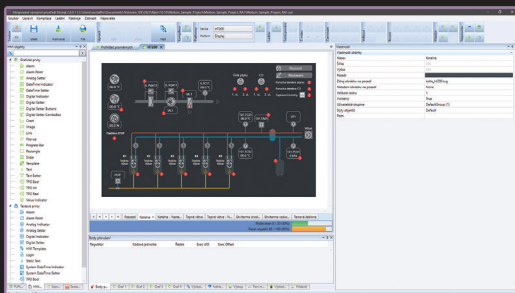

Text Parser - reading and parsing text from a web page or file using JSON, XPath and regular expressions.

Encrypted TLS communication - certificate support and validation.

Other functions:

- Remote configuration uploading via Proxy server.
- Saving variables to history with adjustable time stamp.
- New HMI objects – Link, Pop-up, Progress bar, Slider.
- Structures support on the Modbus server.
- Export EDE file BACnet server for easier import into client programs.
- Dynamic changes of configuration parameters.

Communication protocols

Modbus RTU/TCP, M-Bus, IEC 62056-21, Daikin iTC, Hauser, Text Parser, or custom drivers. Communication with internal SSCP protocol via ethernet and serial line. Integration into third-party clients: BACnet/IP server and external app OPC UA/DCOM server.

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RUNTIME

License for SW that processes compiled Domat projects. Linux or Windows OS. The number of variables and communication channels is limited only by the capabilities of the HW platform.

Support Modbus RTU/TCP (client/server), BACnet UDP (client/server), M-Bus and IEC 62056-21, Daikin iTC, Hauser and Text Parser. Mutual data exchange by internal SSCP protocol over Ethernet and serial line. Integration into third-party clients: BACnet/IP server and external app OPC UA/DCOM server.

Use: data collection and processing systems, integration of foreign systems, customer PLC development.

Domat Runtime now supports the Syslog protocol. Syslog is used for collecting, storing, and analyzing events. It is a standard method for maintaining a constant overview of all activities in Domat PLCs. The implementation supports standardized logging formats RFC3164 (BSD) and RFC5424, with support for text messages in the CEF standard and the option for encrypted communication. This enables real-time detection and alerts for security threats and system errors.

For energy applications, the Domat Runtime has been enhanced with the IEC 60870-5-104 (Telecontrol) server protocol. This protocol is used for dispatch control of energy sources and consumers, such as PV systems, cogeneration units, battery storage, or accumulation systems. Telecontrol ensures secure and reliable real-time connections. The implementation supports 54 object types, including binary states, analog values with or without timestamps, and control commands. The communication protocol is licensed, and licenses are ordered and activated in a manner similar to Domat Runtime licenses.

domat
PROXY

It enables access to the PLC in the LAN network without the need to establish access to the network via a public IP address. The PLC itself connects with the assigned Proxy ID to the proxy server operated by Domat, and clients access this proxy server with the same Proxy ID instead of directly to the PLC. The connection can be set as secure (TLS).

Through Domat Proxy, you can read and write values, but also upload the program and download or upload the PLC configuration, so it is a full-fledged programming approach.

Advantages: It significantly simplifies connectivity settings, helps with commissioning and servicing, especially in the early phase of the project and right after its completion, when we temporarily install an LTE modem instead of permanent remote access.