DOMAT
MEMBER OF CEZ ESCO

NEWS LETTER

Spring 2025

Energy under control

Dear business partners,

summer is approaching, bringing with it a time for well-deserved rest, new inspirations, and recharging energy. We would like to take this opportunity to wish you wonderful summer days filled with relaxation, good moods, and unforgettable experiences. At the same time, we thank you for your trust and cooperation, which we greatly appreciate. To get even closer to you, we are preparing the Domat Roadshow, where we look forward to personal meetings, sharing news from the development of our systems, and discussions on topics that are relevant to you. We believe these meetings will be valuable not only in terms of technical information but also as an opportunity for informal conversations over coffee. Until then, we wish you successful completion of all your projects and a smooth transition into the second half of the year!

Team Domat Control System

NEWS

Release of Domat IDE version 2.7.0.6 as a Stable Release

Adding import and export of Modbus server devices

Bug fixes from the Release Candidate versions of Domat IDE 2.7.0.x

download here

Release of Domat IDE version 2.7.0.4 as a Release Candidate

- Addition of Modbus configurator
- Addition of Syslog protocol support
- Addition of IEC 60870-5-104 communication protocol
- Addition of certificate management
- Support for CEF format in PLC system log
- Bug fixes from reported issues

download here

Release of Domat Visual version 2.7.0.4 for HT3xx

- Automatic creation of directories with definitions (bug fix for loading definition files)
- Addition of custom alarm icon upload
- Addition of communication error configuration

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Release of Domat Visual version 2.7.0.4 on Google Play and the App Store.

- Fixes of reported issues

download here

Available on the App Store

GET IT ON Google Play

ARTICLES

Discontinuation of Merbon SCADA Deliveries

This year, we are planning to phase out the supply of Merbon SCADA. This visualization software has been with us for a whole decade, but unfortunately, we are no longer able to maintain and deliver it. In light of the requirements of the Cyber Resilience Act (CRA), we have had to strategically reassess the entire system and prioritize those components that we can continue to develop and deliver in accordance with the CRA and the required quality standards.

So, what happens next? You and your customers are likely to have some of the questions listed below – and that's why we've prepared answers to them. If you have any further questions, please contact your sales representative or our technical support team at **support@domat.cz**.

read more

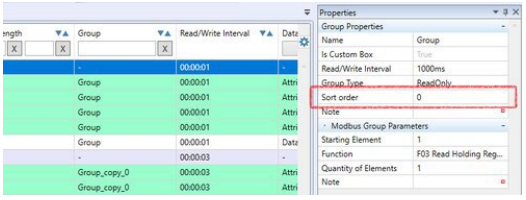
Domat IDE and Programming in Structured Text (ST)

In building automation technologies, we typically use the FUPLA programming language ("function plan"), which is based on functional blocks interconnected by signal flows. This concept has many advantages: good readability, clear commissioning and diagnostics, a certain level of protection against creating faulty code, and more. However, many experienced programmers prefer Structured Text (ST). This language allows for constructs that would be very difficult—if not impossible—to implement in FUPLA. These include loops, conditions, working with arrays, and mass editing of hundreds of repeating circuits, such as zone controllers.

read more

Domat Modbus Driver and Its Optimization

The most commonly used communication driver in Domat PLCs is Modbus RTU or TCP. In larger-scale projects, we may start to encounter system limitations—either on the client side (PLC) or the server side, which could be a sensor, communication converter, frequency drive, photovoltaic inverter, or a Modbus TCP/RTU router. Let's take a look at how the driver works and how to optimize communication when integrating dozens or even hundreds of devices.



read more

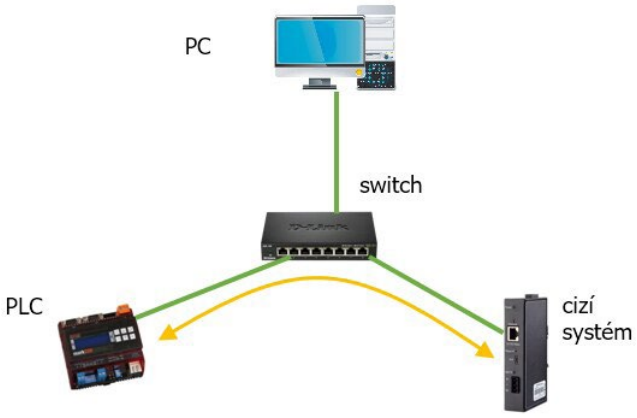
Port Monitor in Ethernet Networks

When commissioning communication with third-party systems, a so-called port monitor is an invaluable tool. It is a function or device that allows you to read the data as it is transmitted over communication lines and, if needed, analyze it to immediately identify the cause of a problem.

Some systems and their development environments lack detailed diagnostic tools, and if communication doesn‘t work as expected, issues only become apparent at the application level: data isn‘t being read, commands don‘t execute, alarm emails aren‘t sent, and so on. In such cases, the only option is to dig deeper and follow the classic diagnostic steps:

- Break the system down into individual components that we can’t inspect in detail
- Describe the inputs and outputs (interfaces) of these components
- Specify what data is expected at the interfaces
- Check whether the expected data is present – and based on that, repair the relevant part

This last step is often where the challenge lies: we need to access the interface directly and capture the data being exchanged.



In serial communication buses like RS232 or RS485, it is usually possible to physically tap into the line and read the data using a converter and monitoring software (terminal) on a PC.

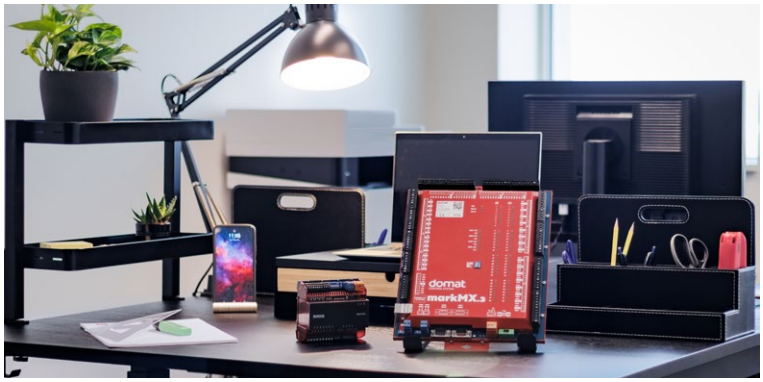
However, Ethernet communication can pose a problem. If one of the communication participants is not a personal computer, monitoring tools like Wireshark (**www.wireshark.org**) are not easily usable. This is because active network components—routers and switches—only forward communication between the source and destination ports, and do not broadcast it to other ports. This significantly speeds up data transmission on the network (since the collision domain includes only two devices), but it also means that the PC is isolated from communication between the PLC and the third-party system.

This also applies if the third-party system is an Internet-based service—e.g., when a PLC communicates as a client over TCP or UDP channels or acts as a server providing data via a web API. In such cases, the monitoring PC is entirely outside the data flow between the PLC and the external device.

read more

From now on, we can meet in Brno too!

The modern facilities at Tuřanka 1222/115 are primarily used for personal meetings with clients, partners, and those interested in our products and services. We believe that the new Brno base will allow us to be closer to our customers and respond even better to their needs. We look forward to all visits and collaborative projects!



WHERE WE'VE BEEN AND WHERE YOU'LL SEE US

ISH 2025

This year, we participated in the ISH 2025 trade fair, which took place from March 17 to 21 in Frankfurt am Main. The main theme of this year's edition was **„Solutions for a Sustainable Future"** which fully aligns with our focus on efficient and eco-friendly solutions in building automation and energy management. The fair featured 2,183 exhibitors from 54 countries, who presented the latest technologies in heating, ventilation, air conditioning, and water management.

Online Webinar

Watch the webinar focused on the HT3xx series, the successor to the HT200. You'll learn about the latest features and innovations the HT3xx offers. You can also find other interesting videos from our technical team on our YouTube channel.

watch here

Roadshow

We would like to invite you to our Roadshow 2025, where we will showcase what's new at Domat, where we are heading, and what innovations we have prepared for you.

Come and join us to see, chat, and get inspired:

- **Prague** - May 27, 2025 (Golden Golem HOTEL, Na Hlavní 21/71, 182 00 Prague-Březiněves, Czech Republic)
- **Brno** – June 3, 2025 (CLUBCO, Vlněna 5, 602 00 Brno, Czech Republic)
- **Ostrava** – June 10, 2025 (CLUBCO, 28.října 3346/91, 702 00 Ostrava, Czech Republic)
- **Bratislava** – June 17, 2025 (Kulturama, Račianska 22/A, Bratislava)

You can look forward to the latest updates from Domat Control System, practical demonstrations, and a pleasant atmosphere.

Don't forget to register and reserve your spot! Write to us at **marketing@domat.cz** and we will send you the details.

REFERENCES

DOMAT IN BRUSSELS!

ZÚ Brusel

The Belgian capital is often unjustly associated with various more or less constructive EU regulations. However, this does not change the fact that originally a „village in the swamp," founded in the 6th century, today a city with a population the size of Plzeň, is now a significant center of global political events. The atmosphere of some political and diplomatic meetings will be influenced by Domat from this year onwards. To ensure a comfortable environment during these meetings, we started work at the end of last year on the installation of Building Automation and Control (MaR) at the Czech Permanent Representation to the EU in Brussels. The new control system for the boiler room, cooling plant, garage ventilation, and air handling units for the cinema hall and representative spaces will ensure fresh air for bold agreements and decisions.

As part of the installation, we will lay 38 km of cables, activate 998 data points, and install 78 IRC controllers. The total value of the project is 7 million CZK.

ZÚ Tokio

ZÚ Londýn

Domat helps manage and optimize household photovoltaic systems.

As part of the collaboration with ČEZ Prodej, Domat Control System introduces an innovative solution that enables the management of the overflow value of residential photovoltaic power plants (FVE). Domat has developed a device that allows continuous monitoring of FVEs, with the subsequent option to issue commands. This helps stabilize the power grid, for which households are rewarded. This technology is part of a broader trend toward a sustainable and efficient energy system, where every small adjustment in consumption can have a significant impact on the overall operation of the energy system. Domat helps manage and optimize household photovoltaic systems.

TRAINING

6. 5. 2025 10:00 (10:00)
webinary: HT3xx

15. 5. 2025 9:00 (9:00 – 15:00)
Třebízského nám. 424, 250 67 Klecany
Školení komunikace protokolem Modbus

5. 6. 2025 9:00 (9:00 – 15:00)
Třebízského nám. 424, 250 67 Klecany
Training of BMS designers

19. 6. 2025 9:00 (9:00 – 15:00)
U Panasonicu 376, 530 06 Pardubice
Domat IDE for beginners

4. 9. 2025 9:00 (9:00 – 15:00)
U Panasonicu 376, 530 06 Pardubice
Modbus communication

18. 9. 2025 9:00 (9:00 – 15:00)
U Panasonicu 376, 530 06 Pardubice
Training of BMS designers

25. 9. 2025 9:00 (9:00 – 15:00)
U Panasonicu 376, 530 06 Pardubice
Domat IDE for beginners

2. 10. 2025 9:00 (9:00 – 15:00)
Nám. Třebízského 424, 250 67 Klecany
Domat IDE for beginners

9. 10. 2025 9:00 (9:00 – 15:00)
U Panasonicu 376, 530 06 Pardubice
Advanced Domat IDE Training

16. 10. 2025 9:00 (9:00 – 15:00)
Nám. Třebízského 424, 250 67 Klecany
Training of BMS designers

23. 10. 2025 9:00 (9:00 – 15:00)
Třebízského nám. 424, 250 67 Klecany
Advanced Domat IDE Training

30. 10. 2025 9:00 (9:00 – 15:00)
U Panasonicu 376, 530 06 Pardubice
Domat IDE for beginners

6. 11. 2025 9:00 (9:00 – 15:00)
Třebízského nám. 424, 250 67 Klecany
Školení komunikace protokolem Modbus

13. 11. 2025 9:00 (9:00 – 15:00)
Nám. Třebízského 424, 250 67 Klecany
Training of BMS designers

27. 11. 2025 9:00 (9:00 – 15:00)
Třebízského nám. 424, 250 67 Klecany
Domat IDE for beginners

4. 12. 2025 9:00 (9:00 – 15:00)
U Panasonicu 376, 530 06 Pardubice
Advanced Domat IDE Training

You can find the programs for each training session **HERE**.

Please register by emailing **skoleni@domat.cz**.

Also follow our **news** and **calendar of events**, where we will inform you in time about any changes or newly announced dates. News regarding not only training can also be found on our social networks:

DOMAT SUPPORT ON WHATSAPP

Customer support is important to us and we try to constantly improve it and adapt it to your requirements. To make it even easier for you to communicate with our technical support, we have set up **WhatsApp: +420 732 806 418.**

YOUTUBE TUTORIALS AND FAQ

The technical support section on our website is regularly updated with new articles and instructions. The same goes for our **Youtube channel**, which we are also trying to expand with new tutorials. If you are solving a certain problem and you are looking for a specific solution, don‘t forget to study our FAQ and videos.

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