

# Change Log

VS Automation softPLC 1.2.15204.0, 2022-06-22

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# 1. VS Automation softPLC 1.2.15204.0, released 2022-06-22

- Added support of OPC UA Alarms & Conditions and Events:
  - OPC UA Alarms with manual acknowledge.
  - OPC UA Events.
  - Generation of the OPC UA Audit Event if alarm limits have changed.
  - Message Id for OPC UA for possible localization on the OPC UA client side. (KSD-3421)
- Added support of DXF format for motion. (KSD-4863)
- Groups in OPC UA configuration now can be nested. (KSD-1025)
- A new function block FOE\_WRITE is added to write firmware to an EtherCAT slave at runtime. (KSD-4159)
- A new function block FOE\_READ is added to read firmware from an EtherCAT slave at runtime. (KSD-4158)
- Added support for Linux x64. (KSD-359)
- Implemented an option to enable/disable historizing in OPC UA Server. (KSD-505)
- Added support of the MQTT protocol: allows to send and receive data from the cloud. (KSD-2780)
- A new function block KPA\_MOVECROSSOVER is added for use in dxf movement. (KSD-4795)

## 2. VS Automation softPLC 1.1.19023.0, released 2022-06-07

- Added missing restart modes in the systray application. (KSD-5508)
- A separate command line argument is added to support the 'Cold with retains' startup mode. (KSD-5507)
- More protection is added to console arguments passed to softPLC runtime. (KSD-5509)
- Extra logging is added when stopping softPLC runtime with Ctrl+C on Linux and Windows. (KSD-5514)
- Updated logging at the debug trace level. (KSD-4902)
- *Fixed bug* Page fault if invalid command line argument is passed to softPLC on INtime. (KSD-5661)
- *Fixed bug* Communication error if an empty address is passed to a MODBUS driver on INtime. (KSD-5646)
- *Fixed bug* COM port parameters are not applied on INtime. (KSD-5474)
- *Fixed bug* Hot restart on INtime works improperly. (KSD-5472)
- Added possibility to choose startup mode at installation time on Windows and INtime. (KSD-5512)

## 3. VS Automation softPLC 1.1.19003.0, released 2021-11-26

- Log file improvement. Added a footer to log files with info about some cycle timings and memory statistics. (KSD-1187)
- From now on, it is possible to get maximum time which is consumed by the write retain variables operation. For this purpose, a new function block F\_SAVERETAINTIME was added. See details in VS Automation softPLC Studio Help.chm. (KSD-1190)
- Log file improvement. Added a header to log files with generic info about versions of components and hardware. (KSD-1186)
- A new requirement for VS Automation softPLC running - VS EtherCAT Master must be installed previously. (KSD-1151)
- Added Python certificate generator to VS Automation softPLC installer. (KSD-1806)
- Motion FBs improvement. To make clear errors meaning, the ErrorID parameter of Motion FBs was cast to the ENUM type. All entries are described in VS Automation softPLC Studio Help.chm. (KSD-1724)
- Added the check of the requested cycle time. When this time is less than 50us, or 1ms for Windows, the notification is generated. (KSD-1714)
- From now on, it is possible to run VS Automation softPLC for Linux as a daemon. (KSD-979)
- Improvement of synchronization with EtherCAT. From now on, PLC controls the cycle and VS EtherCAT Master works in Sync mode 2. (KSD-1842)
- Log file improvement. A new log file is created when the current one reaches a maximum log file size. (KSD-875)
- From now on, VS Automation softPLC for Windows runs as a service with administrator rights. A tray application controls the start/stop procedures. (KSD-590)
- Tracing operations moved to a separate thread to reduce the main cycle overhead. (KSD-483)
- The KPA\_DELAXISGRP function block is renamed to MC\_REMAXISFROMGRP as it is defined in the PLC Open standard. (KSD-3600)
- *Fixed bug* VS Automation softPLC hangs if the KPA\_ENVINIT function block is added to PLC without VS Motion configuration. (KSD-1264)
- *Fixed bug* Trace level from the KPA\_SETTRACING function block is not applied. (KSD-1218)
- *Fixed bug* It is possible to remove log files of VS Automation softPLC for Windows without administrator rights. (KSD-982)
- *Fixed bug* No info on the **stat** command line argument in VS Automation softPLC Help (called by /? or --help). (KSD-1369)
- *Fixed bug* No errors are printed by VS Automation softPLC if the VS Motion license is invalid. (KSD-537)

## **4. VS Automation softPLC 1.0.7702.0, released 2021-02-11**

Initial release of VS Automation softPLC version 1.0.

# 5. Imprint and disclaimer

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