

# Release Notes

## dataFEED Gateways

**Version 1.74.00**

Product/Component	File name	Version	Date
uaGate SI, MB, 840D	Firmware.1.74.00.1880.img.bz2	1.74.00	08.06.22

## 1 New or enhanced features

- Support of Writing into 840D NCK Area (Only for uaGate 840D)  
**Special note: This functionality can only be used if the configuration of the connection to the SINUMERIK 840D is deleted and then recreated**
- New Option Enable/Disable Write into PLC  
**Special note: This functionality can only be used if the configuration of the connection to the PLC is deleted and then recreated**

## 2 Bug Fixes

- ID 2305:** uaGate SI can not browse SIMATIC S7- 1500 PLC via s7-2 protocol
- Description of PIN Assignment is wrong (German Only)

## 3 Known issues/limitation

- ID 2095:** MQTT Topic Selection Browser does not check value rank
- ID 2110:** MQTT Topic selection is restored with user mfadmin
- ID 2139:** Not able to distinguish between SByte and Byte when parsing the NC-Var-Selector AWL file (840D only)
- ID 2144:** FW Update indicates finish message with previous (wrong) version number
- ID 2167:** MQTT does not verify expiration date of certificate [Paho MQTT Lib issue 630]
- ID 2169:** Default IP address/Subnet mask not shown with unconnected eth1
- ID 2229:** Cannot re-establish connection to PLC because of wrong connection status when write request returns with timeout (840D only)
- ID 2232:** Connection can be established if cert is rejected, but signed by trusted CA
- ID 2233:** MQTT Topic selection fails sometimes with HTTP error code 404

Product/Component	File name	Version	Date
uaGate SI, MB, 840D	Firmware.1.73.00.1163.img.bz2	1.73.00	25.10.21
uaGate SI, MB, 840D	Firmware.1.73.01.1439.img.bz2	1.73.01	11.02.22

## 1 New or enhanced features

- Support of 840D Tooling Data
- Update to new OPC UA SDK Version 5.66.1 (CVE-2021-40873)
- Update/Change Softing Contact Information
- Add timeout settings for connections to Siemens S7-1200/1500 (S7-72)

## 2 Bug Fixes

- ID 2077:** OPC UA self-discovery shows internal endpoint
- ID 2231:** CVE-2019-15051 Code execution through password change
- ID 2275:** uaGate: Crash when writing on node with invalid namespace index
- ID 2276:** Remote Code Execution
- ID 2277:** Incorrect authorization management
- ID 2279:** Gateway loses connection to PLC after 40 days
- ID 2292:** Wrong "Service Level Value" of UA Server" (Patch 1)
- ID 2296:** OPC UA Address Space Folder are duplicated (Patch 1)
- ID XXXX:** S7-72 connection could not be established

## 3 Known issues/limitation

- ID 2095:** MQTT Topic Selection Browser does not check value rank
- ID 2110:** MQTT Topic selection is restored with user madmin
- ID 2139:** Not able to distinguish between SByte and Byte when parsing the NC-Var-Selector AWL file (840D only)
- ID 2144:** FW Update indicates finish message with previous (wrong) version number
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- ID 2233:** MQTT Topic selection fails sometimes with HTTP error code 404

## 1 New or enhanced features

Product/Component	File name	Version	Date
uaGate SI, MB, 840D, edgeGate	Firmware_v1.72.00.1996.img.bz2	1.72.00	02.10.19
uaGate SI, MB, 840D, edgeGate	Firmware_v1.72.01.1878.img.bz2	1.72.01	19.12.19
uaGate SI, MB, 840D, edgeGate	Firmware_v1.72.03.1603.img.bz2	1.72.03	15.07.20
uaGate SI, MB, 840D, edgeGate	Firmware_v1.72.04.1802.img.bz2	1.72.04	29.03.21
uaGate SI, MB, 840D, edgeGate	Firmware_v1.72.05.1133.img.bz2	1.72.05	16.07.21

- Write of the PLC variables is now possible (uaGate 840D only)
- Adjustable TSAPs for PLC and NCK connections (uaGate 840D only)
- Support for Sinumerik 840D Power Line (uaGate 840D only) (patch3)
- Added drop down entries for Sinumerik 840D Power Line standard connection settings (uaGate 840D only) (patch3)
- Changed the network capture from 24h to infinite – restart needed to stop the capture (patch4)
- Added Button to access the logs & persistent logs from webinterface (patch4)
- Added checkbox to enable/disable the alarms for Sinumerik (uaGate 840D only) (patch4)

## 2 Removed features

- Removal of Azure proxy and publisher, see also [here](#) (edgeGate only)
- Removed DHCP client settings from Machine Interface (uaGate 840D only) (patch3), see **ID 2137**

## 3 Bug Fixes

- ID 2190:** Malicious files can be placed in cert path of configuration archive
- ID 2210:** The storage of the configuration to the SD card generates a false failure message
- ID 2220:** String length problem (uaGate SI only)
- ID 2222:** GUI improvements/typos
- ID 2223:** different drives grouped in one request (uaGate 840D only)
- ID 2225:** Support of more than 10 drives (uaGate 840D only)
- ID 2230:** Azure-OPC-proxy is obsolete
- ID 2231:** Code execution through password change
- ID 2137:** DHCP client does not work with Sinumerik DHCP server (uaGate 840D only) (patch3)
- ID 2239:** MQTT is publishing data from old .awl File (patch3)
- ID 2243:** The PLC variable address of the DB differs from .sdfi file (uaGate 840D only) (patch1)
- ID 2245:** More than two channels cause problems (uaGate 840D only) (patch1)

- ID 2248:** uaGate SI loses connection to PLC after 24 days (patch5)
- ID 2254:** UA Namespace filter selection does not work (uaGate SI only)
- ID 2261:** uaGate SI: Browse Request with S7-1500 returns in BadSecureChannelClosed (patch4)
- ID 2262:** uaGate SI: Browse with S7-1500 protocol only possible if PLC is in STOP Mode (patch4)
- ID 2263:** uaGate SI: cannot browse the plc through s7-2 protocol (patch4)
- ID 2265:** Communication failure between uaGate 840D, Netlink-Adapter and 840D PL (patch4)
- ID 2268:** Symbol view of PLC connection is showing browsing error - not found (patch5)
- ID 2272:** UA Client does not get values after restarting the tool machine (patch5)
- ID 2273:** uaGate 840D loses connection to tooling machine after 24 days (patch5)

## 4 Known issues/limitation

- ID 2077:** OPC UA self-discovery shows internal endpoint
- ID 2095:** MQTT Topic Selection Browser does not check value rank
- ID 2107:** All MQTT topic selections are removed if one PLC connection is removed (edgeGate)
- ID 2110:** MQTT Topic selection is restored with user mfadmin
- ID 2121:** Compatibility to Microsoft Azure cloud - only works with 'Suppressed PLC Symbols'
- ID 2139:** Not able to distinguish between SByte and Byte when parsing the NC-Var-Selector AWL file (840D only)
- ID 2144:** FW Update indicates finish message with previous (wrong) version number
- ID 2167:** MQTT does not verify expiration date of certificate [Paho MQTT Lib issue 630]
- ID 2169:** Default IP address/Subnet mask not shown with unconnected eth1
- ID 2229:** Cannot re-establish connection to PLC because of wrong connection status when write request returns with timeout (840D only)
- ID 2232:** Connection can be established if cert is rejected, but signed by trusted CA
- ID 2233:** MQTT Topic selection fails sometimes with HTTP error code 404

Product/Component	File name	Version	Date
uaGate SI, MB, 840D, edgeGate	Firmware_v1.71.00.1225.img.bz2	1.71.00	14.06.19
uaGate SI, MB, 840D, edgeGate	Firmware_v1.71.01.1684.img.bz2	1.71.01	15.08.19

## 1 New or enhanced features

- Read of scalar data from internal S7 PLC (uaGate 840D only)
- Predefined address space for NCK (uaGate 840D only)
- Mapping of NCK alarm codes to text (uaGate 840D only)
- Optimized read of drive values (uaGate 840D only)
- Update to OPC UA toolkit version 5.58
- Significant optimized Siemens V2 read and write performance (uaGate SI only)

## 2 Removed features

- Uninstall ssh-server due to security improvement

## 3 Bug Fixes

- ID 2162:** not all NCK alarms are shown (uaGate 840D only)
- ID 2203:** Gateways sporadically unreachable by IT interface/OPC UA endpoint (**patch1**)
- ID 2185:** Read S7 item String with max length [254] not possible - As workaround, the string/array size is limited to 216 (uaGate 840D only) (**patch1**)

## 4 Known issues/limitation

- ID 2077:** OPC UA self-discovery shows internal endpoint
- ID 2095:** MQTT Topic Selection Browser does not check value rank
- ID 2107:** All MQTT topic selections are removed if one PLC connection is removed (edgeGate)
- ID 2110:** MQTT Topic selection is restored with user madmin
- ID 2121:** Compatibility to Microsoft Azure cloud - only works with 'Suppressed PLC Symbols'
- ID 2137:** DHCP client does not work with Sinumerik DHCP server (840D only)
- ID 2139:** Not able to distinguish between SByte and Byte when parsing the NC-Var-Selector AWL file (840D only)
- ID 2144:** FW Update indicates finish message with previous (wrong) version number
- ID 2167:** MQTT does not verify expiration date of certificate [Paho MQTT Lib issue 630]
- ID 2169:** Default IPaddress/Subnet mask not shown with unconnected eth1
- ID 2210:** The storage of the configuration to the sd card generates a false failure message

Product/Component	File name	Version	Date
uaGate SI, MB, 840D, edgeGate	Firmware_v1.70.00.1819.img.bz2	1.70.00	21.03.19

## 1 New or enhanced features

- Initial firmware with support to read data from Sinumerik 840D NCK part (uaGate 840D only)
- Subscribe Sinumerik 840D NCK alarms (uaGate 840D only)
- Update of OPC publisher to version 2.3.2 (edgeGate only)
- Upload possibility for adjusted nodesetfile for OPC publisher (edgeGate only)
- The whole command line to start the OPC publisher is configurable by the user (edgeGate only)

## 2 Removed features

- Removed dataFEED exporter to reduce firmware image size

## 3 Bug Fixes

- ID 2155:** Azure settings are not stored on SD card
- ID 2163:** Mqtt Topic Settings - PLC Value marker can't be reset
- ID 2166:** Factory reset makes device unusable
- ID 2168:** A German umlaut within a client certificate subject breaks display of client certificates
- ID 2172:** Segmentation fault in OpcUa2MQTTPublisher

## 4 Known issues/limitation

- ID 2077:** OPC UA self-discovery shows internal endpoint
- ID 2095:** MQTT Topic Selection Browser does not check value rank
- ID 2107:** All MQTT topic selections are removed if one PLC connection is removed (edgeGate)
- ID 2110:** MQTT Topic selection is restored with user mfaadmin
- ID 2121:** Compatibility to Microsoft Azure cloud - only works with 'Suppressed PLC Symbols'
- ID 2137:** DHCP client does not work with Sinumerik DHCP server (840D only)
- ID 2139:** Not able to distinguish between SByte and Byte when parsing the NC-Var-Selector AWL file (840D only)
- ID 2144:** FW Update indicates finish message with previous (wrong) version number
- ID 2162:** If NCK alarms happens the same time, only one is shown (840D only)
- ID 2167:** MQTT does not verify expiration date of certificate [Paho MQTT Lib issue 630]
- ID 2169:** Default IPaddress/Subnet mask not shown with unconnected eth1

Product/Component	File name	Version	Date
uaGate SI, MB, edgeGate	Firmware_v1.60.00.9836.img.bz2	1.60.00	31.10.18
uaGate SI, MB, edgeGate	Firmware_v1.60.01.9879.img.bz2	1.60.01	06.11.18
uaGate SI, MB, edgeGate	Firmware_v1.60.02.10059.img.bz2	1.60.02	20.12.18
uaGate SI, MB, edgeGate	Firmware_v1.60.03.10237.img.bz2	1.60.03	19.02.19

## 1 New or enhanced features

- New protocol variant Siemens v2 for S7-1200/1500 with optimized blocks (uaGate SI only)
- Replacement of MQTT publisher implementation. The MQTT is now based on OPC UA node-ids
- Automatic conversion from old MQTT selection configuration
- Several PLC values could be grouped into one MQTT message
- The MQTT clean session flag can be configured -> needs to be enabled for Amazon AWS
- Replacement of symbol view, now in hierarchical view

## 2 Bug Fixes

- ID 2060:** MQTT to AWS cloud: CleanSession must be true
- ID 2066:** FW update - no finish indication
- ID 2087:** The folder objects of the OPC UA Server are not according to the OPC UA specification
- ID 2098:** No input validation for connection name
- ID 2058:** Real from Standard variable table is interpreted as UInt32
- ID 2041:** Special characters '<' and '>' in DB name cause un-browsable sub nodes on OPC UA
- ID 2072:** importing certificates with UTF-8 charset may lead to error on loading certificate page
- ID 2124:** PLC type in connection name drop down could be confusing (patch1)
- ID 2130:** uaGate SI cannot connect to S7-1500 after Firmware upgrade v02.06.00 (patch2)
- ID 2142:** Extended/Improved Open Source license information (patch3)

## 3 Known issues/limitation

- ID 2077:** OPC UA self-discovery shows internal endpoint
- ID 2095:** MQTT Topic Selection Browser does not check value rank
- ID 2107:** edgeGate: All mqtt topic selections are removed if one PLC connection is removed
- ID 2110:** Mqtt Topic selection is restored with user madmin
- ID 2121:** Compatibility to Microsoft Azure cloud - only works with 'Suppressed PLC Symbols'

Product/Component	File name	Version	Date
uaGate SI, MB, edgeGate	Firmware_v1.50.00.8509.img.bz2	1.50.00	16.11.17
uaGate SI, MB, edgeGate	Firmware_v1.50.01.9138.img.bz2	1.50.01	18.05.18
uaGate SI, MB, edgeGate	Firmware_v1.50.02.9728.img.bz2	1.50.02	08.10.18

## 1 New or enhanced features

- Initial firmware of dataFEED uaGate MB
- Supports of Modbus TCP connections (edgeGate and uaGate MB only)
- Configuration and usage of up to 5 PLC Connections (edgeGate only)
- Microsoft Azure OPC-Publisher (edgeGate only)
- Update of edgeGate only component `iot-edge-opc-publisher` to v2.1.4 (patch1)

## 2 Bug Fixes

- ID 1631:** Display problems with Internet Explorer and Edge
- ID 1771:** (Google Chrome) - The error/warning messages are displayed for less than a second
- ID 1919:** IT Network configuration - default gateway should be optional
- ID 1941:** Sanity check for Siemens Expert settings
- ID 1947:** Sanity check for MQTT Broker Configuration
- ID 1967:** The OPC UA application URI is not unique
- ID 1977:** MQTT Publishing stops
- ID 1988:** Itadmin and Mfadmin have no access to the sd card page
- ID 1977:** UA Endpoint can't be opened with NONE of security and UserNameAuthentication
- ID 2041:** special character by the DB' Name of a S7 causes a malfunction by the PLC Communication (patch2)
- ID 2060:** MQTT to AWS cloud: CleanSession Flag must be true (patch2)

## 3 Known issues/limitation

- Microsoft Connected Factory** - The host name of the device needs to be "publisher"
- ID 1948:** ModbusTCP suffix KA not supported
- ID 1951:** ModbusTCP bit writing not supported
- ID 1960:** ModbusTCP byte masking not supported
- ID 1969:** edegate: Azure IoT Publisher cannot be unregistered from Device Explorer
- ID 1990:** OPC UA - The status code of folder type items is "BadConnectionClosed" - wrong code

Product/Component	File name	Version	Date
uaGate SI, edgeGate	Firmware_v1.40.00.7940.img.bz2	1.40.00	22.06.17
uaGate SI, edgeGate	Firmware_v1.40.01.8103.img.bz2	1.40.01	03.08.17
uaGate SI, edgeGate	Firmware_v1.40.02.8139.img.bz2	1.40.02	08.08.17

## 1 New or enhanced features

- Microsoft Azure OPC-Proxy (only for edgeGate)
- Display of device IPv6 addresses
- Universal plug and play support
- Display of the imported PLC name space
- Access rights to PLC symbols could be reduced
- Configuration backup to the external SD-card
- Read/browse access to the external sd-card
- Access to the chip temperature through web and OPC UA
- Support of CA signed server certificate for OPC UA and https server
- Security mode basic256sha256 (SHA2) for OPC UA
- Warning for unsecure default password usage
- Update of edgeGate only component iot-edge-opc-proxy to v1.0.2 (patch1)

## 2 Bug Fixes

- ID 1631:** Display problems with Internet Explorer and Edge
- ID 1771:** (Google Chrome) - The error/warning messages are displayed for less than a second
- ID 1929:** No login to configuration web page with Microsoft Edge 40.15063.0.0 (patch1)
- ID 1935:** logout does not work (patch2)
- ID 1954:** uagate/edgate cannot connect to Azure MQTT broker (patch2)

## 3 Known issues/limitation

- ID 1753:** Cannot download MQTT server certificate chain with IPv6 address
- ID 1924:** dataFEED exporter: Context help of Oriole sdfi generation opens echocollect specific help page
- ID 1925:** dataFEED exporter: Application selection does not allow to choose edgeGate

Product/Component	File name	Version	Date
uaGate SI	Firmware_v1.30.00.6896.img.bz2	1.30.00	08.11.16
uaGate SI	Firmware_v1.30.01.7100.img.bz2	1.30.01	16.12.16

## 1 New or enhanced features

- New feature -> MQTT publisher
- Reload button added to web pages
- OPC UA communication port is now adjustable (default: 4840)

## 2 Bug Fixes

- ID 1670:** Default gateway cannot be set: Sanity check improved
- ID 1637:** Menu doesn't work correctly in Firefox/Internet Explorer with mfaadmin and itadmin
- ID 1674:** UA Server doesn't provide the source Timestamp
- ID 1731:** The administrator password is corrupted after configuration upload into the device
- ID 1626:** Pending changes message does not disappear on config reset, config upload
- ID 1685:** Loading of large symbol files only loads 20000 symbols without warning
- ID 1633:** The user has no means to verify the OPC UA server certificate
- ID 1744:** reset to factory settings (dependent on HW) -> hostname is not reset to default
- ID 1769:** syslog continues to write into old logfile
- ID 1772:** Bad connection diagnostic message (patch1)
- ID 1773:** Cannot display Gateway-Status page when /var/tmp is full (patch1)
- ID 1776:** Watchconfig.pl reads each 5 seconds the OPC UA port from configuration file (patch1)
- ID 1780:** Syslog message pollutes the messages file on SD-card partially fixed (patch1)
- ID 1784:** CPMainSrv crash when ETH cable is unplugged and replugged with QoS=1 (patch1)

## 3 Known issues/limitation

- ID 1631:** Display problems with Internet Explorer and Edge
- ID 1753:** Cannot download MQTT server certificate chain with IPv6 address
- ID 1764:** Browser complain about "unsecure" self-signed certificate
- ID 1767:** Wait message won't disappear after changing Ip with Google Chrome
- ID 1771:** (Google Chrome) - The error/warning messages are displayed for less than a second

Product/Component	File name	Version	Date
uaGate SI	Firmware_v1.10.00.5360.img.bz2	1.10.00	19.10.15
uaGate SI	Firmware_v1.10.01.5689.img.bz2	1.10.01	15.03.16
uaGate SI	Firmware_v1.10.02.5993.img.bz2	1.10.02	03.05.16

## 1 New or enhanced features

- Release version for uaGate SI
- Update/Security fixes for Debian base system

## 2 Bug Fixes

- ID 1680:** dataFEED exporter TIA with UDT structs and struct arrays (patch2)
- ID 1684:** Error when loading large symbol file. The number of imported symbols is now limited to 20.000 (patch2)
- ID 1655:** sporadic watchdog reset on Oriole device
- ID 1670:** Default gateway cannot be set

## 3 Known issues/limitation

- ID 1670:** The gateway sanity check is too relaxed: It fails for netmask 255.255.254.0
- ID 1685:** Limitation is stated on "Machine Settings" -> "Symbol Import" page and help page