

Release Notes

uaGate SI, uaGate MB, uaGate 840D Version 1.75

March / 2024



Product/Component	Image name	Tag	Date
uaGate SI, MB, 840D	Firmware 1.75.00.3709.img.bz2	V1.75	15.03.24

1 Important Notes

After a FW update, wait until the update process has been completed, LEDs from the device are in correct state, and access to its Web Interface is again possible before starting to perform changes or power off the unit. This process can take up to 20 minutes.

Please be aware that we only recommend the use of Industrial Grade SD cards. Due to the variety of SD Cards available in market, some of these may not be possible to be correctly initialized and recognized in the external accessible car reader slot. To properly mount the SD Card, it should be mounted while the device is Powered Off, then the device can be Power On. If a failure to recognize the card is present, please try with a different SD card brand.

Devices with Kernel <= V3.18 should be updated directly by Softing.

2 New or enhanced features Update userland to Debian ■ Update Linux ☐ TLS Communication ■ Extending Tooling 840D ☐ Allow configuration for new features after firmware update ☐ Update to latest paho.mqtt.c release ☐ Update of the OPC UA toolkit to Version 6.30 / PSIRT 2022-19 ☐ CVE-2023-27334: Unlimited Method Call Resource Exhaustion Note: The defaults which SDK provides for operation limits have changed from 0 (unlimited) to 1000. Therefore, a client cannot invoke a service (read, write, ...) with more than this number of operations. ☐ CVE-2021-40873 - a possible crash in UA server communication ☐ CVE-2019-11529 uaGate security unchangeable root default password ☐ Continuous Wireshark option after restart of uaGate Display the Wireshark status ☐ Implement fail2ban functionality on the Webserver

☐ ID 1753: Can not download MQTT server certificate chain via ipv6

3 Bug Fixes



ID 1880: uaGate does not boot successfully because of malformed Param.xml in device
ID 2269: uaGate840D: Enable Alarms button state is not stored after FW-update
ID 2215: uagateSI: s7_32 - Chars from area M, I, O can not be written
ID 2323: uaGate interface eth0 off
ID 2321: UA Server of UaGate crashes when added whole Struct Array from s7-2 connection
ID 2307: Security: CVE-2019-10082, CVE-2021-26691 and much more
ID 2309: uagate: cannot change ReadOnly parameter after loading of old configuration file
ID 2316: PSIRT: 2022-21 Security: Acunetix - Remote sode execution
ID 2328: Hostname beginning with number not allowed
ID 2353: uagate840d plc connection. Error showing node properties in integrated Symbolview
ID 2371: NTP Client is requesting x.debian.pool.ntp.org, even if other NTP Server is configured
ID 2372: MQTT message grouping missing value changes
ID 2382: uaGate SI, 840D provide random value instead of last value on read failure
ID 2384: Action Successfully performed message not showing after click on the save



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

	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 cannot 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

	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
	ID XXXX: S7-72 connection could not be established Known issues/limitation
3	Known issues/limitation
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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 web interface (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 <u>here</u> (edgeGate only)
	Removed DHCP client settings from Machine Interface (uaGate 840D only) (patch3), see ID 2137
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3	Bug Fixes
3	ID 2190: Malicious files can be placed in cert path of configuration archive
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	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 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 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 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 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)
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	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 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

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

	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 mfadmin
	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

	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 mfadmin
	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

	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: edgegate: 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

	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
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	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 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 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 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)
	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) Known issues/limitation



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

	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 mfadmin 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
П	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

	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 to be relaxed: It fails for netmask 255.255.254.0
	ID 1685: Limitation is stated on "Machine Settings" -> "Symbol Import" page and help page