

Release Notes

edgeConnector

Version 2024.02

28 / June / 2024

Product	Deliverable	Version	Date
edgeConnector Allen-Bradley PLC	softingindustrial/edgeconnector-allen-bradley-plc	V2024.02	28.06.24
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V2024.02	28.06.24
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2024.02	28.06.24
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2024.02	28.06.24
edgeConnector Fanuc CNC	softingindustrial/edgeconnector-fanuc-cnc	V2024.02	28.06.24

1 New or enhanced features

edgeConnector Allen-Bradley PLC

- New Product variant **edgeConnector Allen-Bradley PLC**
- Support for ControlLogix and CompactLogix (CLX) data
- Protocol Driver for EtherNet/IP CIP
- Support Routing of the Controllers.
- Support Symbolic Addressing automatically and manually for controllers with FW < V21
- Supports all data types available for the Logix family Boolean, 8,16,32 signed and unsigned integers, float, double and user defined types including string
- String data type can be handled as a String or as an array of SINT + LEN
- Supports expanded arrays for atomic types. User defined types (UDTs) are shown always as expanded arrays, including strings.
- Special Read and Write services optimization options are available in the Advanced Settings section.
- Application runs as Docker Container in Linux environments (AMD64, ARM64, ARM32)
- Local web-based user interface
- REST API Interface
- MQTT Publisher & Subscriber
- OPC UA Services
- Prometheus Metrics Information
- Demo-Mode with 72h runtime
- Licensing via Softing Floating License Server

2 Bug Fixes

- ID 1074:** Changing the license server to any not reachable address causes the license page to be unreachable.

3 Known issues / Limitations.

- UDT member access level – Not possible to retrieve the access level (read only information) of UDT members.
- Bool sub array write can trigger inconsistencies. Recommendation to write the complete bool array.
- CIP Identity object information is retrieved at start-up and not refreshed. Currently no indication if the information was correctly retrieved.
- Using a routing path, a connection failure will only show a disconnection to the device but will not provide extended information about connection failure.

Product	Deliverable	Version	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V2024.01	19.04.24
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2024.01	19.04.24
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2024.01	19.04.24
edgeConnector Fanuc CNC	softingindustrial/edgeconnector-fanuc-cnc	V2024.01	19.04.24

1 Important Notes

Due to a change in the license mechanism, previous licenses will not work. A new license called “edgeConnection” should be used starting from V2024.01.

2 New or enhanced features

- Product versioning mechanism updated.
- edgeConnector FANUC CNC compatibility with ARM32.
- Simplified new License Model based on PLC/CNC connections called “edgeConnections”. New Licenses are counted per Connection at the Softing Floating License Server. The edgeConnections variants are:
 - LRL-XX-161001 edgeConnection – Perpetual License
 - Includes 1 year of Software Upgrades.
 - LMA-XX-161001 edgeConnection – Software Upgrade License
 - Entitles 1 year of Software Upgrades for consecutive years.
- General GUI improvements
- HTTPs GUI webpage is used as default.
- HTTP GUI webpage only activated manually through an ENV variable.
 - ENABLE_HTTP_CONFIG = True
- Improvements of the MQTT Publisher Datasets.
- Added support for one dimension Array variables writing via MQTT (as part of subscriber functionality).
- Cache the MQTT trigger variable value if used in the payload and use it in the dataset creation.
- General bug fixes.

Product/Component	Image name	Tag	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V3.80	19.01.24
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V3.80	19.01.24
edgeConnector 840D	softingindustrial/edgeconnector-840d	V3.80	19.01.24
edgeConnector Fanuc CNC	softingindustrial/edgeconnector-fanuc-cnc	V3.80	19.01.24

1 New or enhanced features

- ARM32 bit support for edgeConnector Modbus, Siemens, and 840D versions.
- Running Platform Architecture shown in the GUI.
- Running Platform Architecture shown in the Log files at start-up.
- LM-X License Server updated to V5.5.

2 Bug Fixes

- ID 883:** SIS Starts in halted mode after rebooting the PC/Server.
- ID 887:** SDFI parser: nested struct arrays.
- ID 961:** Null values in edgeConnectors advanced setting page.
- ID 970/987:** MQTT Module sending "NULL" values.
- ID 980:** License Server Configuration not confirming saved changes.
- ID 981:** MQTT-Sinumerik. No initial status code is published.

3 Known issues/limitation

- edgeConnectors V3.80 require Softing License Server V4.63 to license the product. No backward compatibility with previous Softing License Server versions.

Product/Component	Image name	Tag	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V3.70	16.10.23
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V3.70	16.10.23
edgeConnector 840D	softingindustrial/edgeconnector-840d	V3.70	16.10.23
edgeConnector Fanuc CNC	softingindustrial/edgeconnector-fanuc-cnc	V3.70	16.10.23

1 New or enhanced features

- Extended Tooling Support – Tool Monitoring, Duplo Tools, OEM Variables.
- Dynamic Alarm Handling by using a max fixed array size.
- Implementation of Security Features updates.
- Ability to access certificate protected (TLS) devices (Siemens S7-1200/1500).
- [GUI] Default License Server port displayed as floating text.
- [GUI] NCK and Controller Connections on by default.

2 Bug Fixes

- ID 477:** Add “Access Tooling Area” to log files.
- ID 677:** Rest interface stops responding on reads from multiple MQTT connections.
- ID 865:** PSIRT 2023-13 - DoS - S7 malformed name with big length.
- ID 879:** Mismatch between OPC UA Common Name certificates and the edgeConnector version.
- ID 902:** Fixed broken web link in the PLC Connection Settings help page (840D).
- ID 936:** Creation of INVALID_COUNT_XX in Sinumerik Tooling.
- ID 955:** MQTT Advanced Trigger break after a change in the settings.
- ID 957:** Failure to connect through S7-2 protocol without TLS.

3 Known issues/limitation

- None

Product/Component	Image name	Tag	Date
edgeConnector FANUC CNC	softingindustrial/edgeconnector-fanuc-cnc	V3.60	31.07.23

1 New or enhanced features

edgeConnector FANUC CNC

- New Product variant **edgeConnector FANUC CNC**
- Support for FANUC 0i-, 30-i, and PM-i CNC Series data
- Support for FANUC NCGuide (Simulator)
- Symbol Import as TXT file for PLC (PMC) area
- Application runs as Docker Container in Linux environments (AMD64)
- Local web-based user interface
- REST API Interface
- MQTT Publisher & Subscriber
- OPC UA Services
- Prometheus Metrics Information
- Demo-Mode with 72h runtime
- Licensing via Softing Floating License Server

2 Bug Fixes

- none

3 Known issues/limitation

- None

Product/Component	Image name	Tag	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V3.50	19.06.23
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V3.50	19.06.23
edgeConnector 840D	softingindustrial/edgeconnector-840d	V3.50	19.06.23

1 New or enhanced features

- ARM 64 bits support
- Automatic session logout: 15 minutes
- Admin password change request at first sign-in.
- [GUI] Rename of PLC section name into Controller.

2 Bug Fixes

- ID 593:** LM-X server issue - REPLACE directive licenses not working properly.

3 Known issues/limitation

- ID 821:** PSIRT 2023-03 Session Theft due to XSS
- ID 822:** PSIRT 2023-04 Loading Remote Javascript Scripts

Product/Component	Image name	Tag	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V3_40	09.02.23
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V3_40	09.02.23
edgeConnector 840D	softingindustrial/edgeconnector-840d	V3_40	09.02.23

1 New or enhanced features

- LDAP/LDAPS support for HTTP/HTTPS users validation
- Added support for metric information for providing data to Prometheus
- Logging for Kubernetes
- Support for MQTT V5
- Support for MQTT store and forward
- Extend MQTT trigger with logical operations (LUA editor)
- Support of MQTT Trigger with logical operations at bool items
- Extension of the MQTT Subscriber functionality to enable the target data point definition for the use of dynamic placeholders
- Extension of the MQTT Publisher functionality to enable the Source data point definition for the use of dynamic placeholders
- Extension of the MQTT Publisher/Subscriber functionality to use an incoming MQTT Message (Subscriber) as a Trigger for an outgoing MQTT Message (Publisher)
- Support for MQTT Authentication with Certificate Chain
- Siemens S7-300 and S7-400 Arrays Support

2 Bug Fixes

- ID 164:** Deadlock when a publish request payload is modified
- ID 310:** Error message does not match on Confirm password input field
- ID 666:** GUI headers are shown as untranslated
- ID 671:** MQTT config file is not parsed correctly when a new subscribe request with an empty payload definition is created
- ID 672:** JSON validation fails with special characters
- ID 673:** Inconsistent address space tree information at MQTT publisher and subscriber
- ID 674:** Rest API allows configuration of Subscribe request with empty Key for the Key: Value pair is not working correctly

- ID 681:** GUI does not respond after trying to edit a connection which has "PersistenceInFS" enabled
- ID 682:** Exception when switching publish mode to "Data Point Triggered"
- ID 683:** Changing the triggering subscribe request for an MQTT publisher has no effect
- ID 685:** The information shown for selecting the MQTT Trigger source is NOT READABLE
- ID 686:** The default MQTT Trigger Request selection is a dummy option
- ID 687:** Error message on trying to save a publisher without selecting the MQTT Trigger request
- ID 693:** MQTT Message Triggered publish mode copies the payload from standard triggered mode
- ID 699:** Placeholder appears in the template, but not defined when copy/paste a valid payload in the payload definition
- ID 702:** Payload nodes are not in the same order as in the double-clicked/drag and dropped folder

3 Known issues/limitation

- ID 27:** Denial of Service on web interface by deleting the user's authentication token
- ID 29:** Navigation Button does not work, when already selected in navigation panel
- ID 75:** S7-300/400 Unsupported datatypes shown as folder with SDFI-Import
- ID 76:** Support of special S7 Syntax with SDFI-Import
- ID 84:** S7-72 connection is not seen in OPC UA Objects if never online
- ID 89:** Unreachable license server blocks GUI for about two minutes
- ID 92:** Read result of powerline nck Drives area does not always match value from HMI
- ID 185:** Got empty alarm frames every 20ms when no active alarm (PL)
- ID 197:** Predefined Alarm text and alarm Parameters are missing
- ID 199:** Powerline Ch1_LineContent is not displayed correctly
- ID 215:** MQTT - ActiveAlarmJson: Publish request is send multiple times with empty alarm array
- ID 241:** Endpoint Thumbprint is changing after backup/restore
- ID 248:** Endpoint URL showing host name after import configuration
- ID 255:** The NCK Alarm Nodes show incorrect array dimensions
- ID 288:** App is not up and running after backup and restore configuration in special case (MQTT uses PLC items no longer available)
- ID 542:** The sampling interval for the second monitored item on the same variable is not correctly handled
- ID 543:** Monitored items for MQTT publish requests are not deleted properly in specific circumstances

- ID 545:** Monitored items cannot be deleted after a user is removed from an UA endpoint
- ID 586:** MQTT Publisher is not publishing after backup restore until a restart of the application is made
- ID 636:** Application Certificates for Mqtt Connections are not displayed correctly
- ID 642:** generation of the automatic backup generation is not working correctly in a certain scenario
- ID 643:** OPC UA Monitored items are not handled correctly if the session closes while they are being created
- ID 644:** The audit log doesn't trace failed authentication attempts correctly
- ID 659:** Creation of a MQTT user, shows an exception at Certificate generation
- ID 800:** Additional authentication with the same user do not logout the first one
- ID 811:** The REST call for system restart should not return before the system restart is actually initiated

Product/Component	Image name	Tag	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V3_10	23.06.22
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V3_10	23.06.22
edgeConnector 840D	softingindustrial/edgeconnector-840d	V3_10	23.06.22

1 New or enhanced features

- Default Values at Certification Generation
- Change Default Value for OPC UA Endpoint Security

2 Bug Fixes

- Security Vulnerability: CVE-2021-40873
- ID 462:** The Tabs headers in GUI are not translated to German
- ID 476:** MQTT Publish module does not send in correct publish interval
- ID 492:** Containerized license server muss be started only after the edgeConnector is running
- ID 493:** Selected address space cannot be saved
- ID 519:** After restarting the Container, the EdgeConnector in status halted
- ID-521:** GUI is not accessible after editing MQTT Connection
- ID-527:** MQTT Publisher: NULL values sent after a runtime restart
- ID 528:** An MQTT connection having assigned only subscribe requests can be deleted without any warning
- ID 535:** Cannot add payload with special characters
- ID-536:** Save MQTT Publisher Request with special characters return internal error
- ID-544:** Help button disappears when "Trigger Data Point Selection" page is open
- ID-648:** edgeConnector 840D consumes 2 connection resources from license pool

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- ID 92:** Read result of powerline nck Drives area does not always match value from HMI

- ID 185:** Got empty alarm frames every 20ms when no active alarm (PL)
- ID 197:** Predefined Alarm text and alarm Parameters are missing
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- ID 248:** Endpoint URL showing host name after import configuration
- ID 255:** The NCK Alarm Nodes show incorrect array dimensions
- ID 288:** App is not up and running after backup and restore configuration in special case (MQTT uses PLC items no longer available)
- ID 428:** Browse Namespace with Attributes via REST API blocks OPC UA Browse/Read
- ID 542:** The sampling interval for the second monitored item on the same variable is not correctly handled
- ID 543:** Monitored items for MQTT publish requests are not deleted properly in specific circumstances
- ID 545:** Monitored items cannot be deleted after a user is removed from an UA endpoint
- ID 586:** MQTT Publisher is not publishing after backup restore until a restart of the application is made
- ID 591:** MQTT Sampling interval not working properly
- ID 636:** Application Certificates for Mqtt Connections are not displayed correctly
- ID 642:** generation of the automatic backup generation is not working correctly in a certain scenario
- ID 643:** OPC UA Monitored items are not handled correctly if the session closes while they are being created
- ID 644:** The audit log doesn't trace failed authentication attempts correctly
- ID 659:** Creation of a MQTT user, shows an exception at Certificate generation

Product/Component	Image name	Tag	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V3_00	21.04.22
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V3_00	21.04.22
edgeConnector 840D	softingindustrial/edgeconnector-840d	V3_00	21.04.22

1 New or enhanced features

- Security Vulnerability: PATH TRAVERSAL
- Security Vulnerability: FILE UPLOAD
- Security Vulnerability: BLOCKING ACCESS TO THE APPLICATION
- Security Vulnerability: WEAK HASHING ALGORITHM (Login Credentials)
- Security Vulnerability: PERSISTENT CROSS-SITE-SCRIPTING (XSS)
- Security Vulnerability: INCORRECT INVALIDATION OF THE SESSION
- Security Vulnerability: SESSION IDENTIFIER IN THE URL
- Security Vulnerability: USER ENUMERATION
- REST API Improvements
- New license handling
- Rest API enhancements to support cloud based remote configuration through edgeConfigurator 1.0 (Azure support enabled for v1.0)
- Increase 840D maximum supported connections from 5 to 20

2 Bug Fixes

- ID 454:** Application hangs during release of Modbus connections and related release of licenses
- ID 425:** The edgeConfigurator on premise doesn't work as an IoT Edge Module.
- ID 490:** Unhandled promise rejection on non existing remote.
- ID 494:** API call hangs with 'invalid signature' message
- ID 503:** Advanced settings for S7300/400 PLCs documentation missing
- ID-514:** Binary file transfer doesn't work through the edgeConfigurator
- ID-614:** User with "??" is not accepted

3 Known issues/limitation

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edgeConnector Siemens, edgeConnector 840D, edgeConnector Modbus

- ID 76:** Support of special S7 Syntax with SDFI-Import
- ID 84:** S7-72 connection is not seen in OPC UA Objects if never online
- ID 89:** Unreachable license server blocks GUI for about two minutes
- ID 92:** Read result of powerline nck Drives area does not always match value from HMI
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- ID 288:** App is not up and running after backup and restore configuration in special case (MQTT uses PLC items no longer available)
- ID 428:** Browse Namespace with Attributes via REST API blocks OPC UA Browse/Read
- ID 492:** Containerized license server must be started before the edgeConnector is started
- ID 519:** After restarting of the Container the application is in halted status
- ID 542:** The sampling interval for the second monitored item on the same variable is not correctly handled
- ID 543:** Monitored items for MQTT publish requests are not deleted properly in specific circumstances
- ID 545:** Monitored items cannot be deleted after a user is removed from an UA endpoint
- ID 586:** MQTT Publisher is not publishing after backup restore until a restart of the application is made
- ID 591:** MQTT Sampling interval not working properly

Product/Component	Image name	Tag	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V2-35	21.01.22
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-35	21.01.22
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2-35	21.01.22
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V2-35-1	02.02.22
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-35-1	02.02.22
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2-35-1	02.02.22

1 New or enhanced features

- Extension of the "Datapoint Trigger" mechanism with the option to use leading edge, falling edge, or changed on variables from data type bool as a trigger
- Extension of the "Datapoint Trigger" mechanism with the option to use variables of the data type "Integer" as a trigger
- Increase the number of Publish Requests to 100 per MQTT connection
- Increase the number of Subscription Requests to 100 per MQTT connection
- Improve performance on loading data for MQTT Publisher and Subscriber overview tables

2 Bug Fixes

- ID 566:** Some parts of the GUI are not shown correctly on edgeConnector MODBUS (Patch1)
- ID 462:** Some Tab headers are not translated to German
- ID 476:** MQTT Publish module does not send at correct publish intervals
- ID 491:** After restoring a Configuration Backup from Version 2.05 into 2.31 the MQTT Payload is no longer editable
- ID 493:** Selected address space cannot be saved
- ID 521:** GUI is not accessible after editing MQTT Connections
- ID 524:** The title of the License agreement page is broken
- ID 528:** MQTT connection can be deleted without any warning about assigned MQTT subscription requests
- ID 535:** Not possible to add MQTT payload with special characters
- ID 544:** Help button disappears when "Trigger Data Point Selection" page is open
- ID 551:** Select button doesn't have German translation

3 Known issues/limitation

- ID 27:** Denial of Service on web interface by deleting the user's authentication token

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- ID 428:** Browse Namespace with Attributes via REST API blocks OPC UA Browse/Read
- ID 492:** Containerized license server must be started before the edgeConnector is started
- ID 519:** After restarting of the Container the application is in halted status
- ID 542:** The sampling interval for the second monitored item on the same variable is not correctly handled
- ID 543:** Monitored items for MQTT publish requests are not deleted properly in specific circumstances
- ID 545:** Monitored items cannot be deleted after a user is removed from an UA endpoint

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edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V2-31	30.09.21
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-31	30.09.21
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2-31	30.09.21

1 New or enhanced features

- Support additional special characters in User Name (Needed for MQTT connections to some cloud providers)

2 Bug Fixes

- ID 449** MQTT connection information is not correctly shown
- ID 455** MQTT Broker URI does not change the protocol when the protocol is changed via the radio buttons
- ID 373** Not all windows remain centered at the Internet Browser “zoom”

3 Known issues/limitation

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Product/Component	Image name	Tag	Date
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-30	19.08.21

1 New or enhanced features

- Support for MQTT Subscriber functionality
- Support for automatic data type conversion for MQTT Subscriber received data
- MQTT Publisher data point triggered publish

2 Bug Fixes

- ID 343** Sporadic crash of application when stressing MQTT test connection in special situations
- ID 444** Extend the max length of Full Hierarchical Topic Name for MQTT Messages
- ID 412** MQTT payload configuration contains a new line after a placeholder
- ID 410** After update Google Chrome, some Table are not correctly shown
- ID 443** Missing quotas for published payload string values

3 Known issues/limitation

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edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-21	17.06.21
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2-21	17.06.21
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-21-1	23.06.21
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-21-2	16.07.21
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2-21-2	16.07.21
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V2-21-2	16.07.21

1 New or enhanced features

edgeConnector Modbus

- Includes certificate-based authentication to MQTT broker
- Support for web-socket based MQTT connections
- Support for secured MQTT connections (SLL, WSS protocols)
- Support for connections to MQTT cloud providers (Azure, AWS)

2 Bug Fixes

- ID 289:** License expiration data is not displayed correctly (patch2)
- ID 410:** Some parts of the UI are not accessible with latest Google Chrome version (patch1)
- ID 423:** Changes in address Space filter settings cannot be saved (patch2)

3 Known issues/limitation

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- ID 76:** Support of special S7 Syntax with SDFI-Import
- ID 84:** S7-72 connection is not seen in OPC UA Objects if never online
- ID 89:** Unreachable license server blocks GUI for about two minutes
- ID 92:** Read result of powerline nck Drives area does not always match value from HMI
- ID 157:** Last Will & Testament - No character number limit is set for 'Message' field in GUI
- ID 158:** Address Space Overview: Status icon is missing from 'Destination' dialog
- ID 159:** Address Space Overview: 'Sources' dialog is missing 'Address' and 'Status' information
- ID 185:** Got empty alarm frames every 20ms when no active alarm (PL)

- ID 197:** Predefined Alarm text and alarm Parameters are missing
- ID 199:** Powerline Ch1_LineContent is not displayed correctly
- ID 215:** MQTT - ActiveAlarmJson: Publish request is send multiple times with empty alarm array
- ID 241:** Endpoint Thumbprint is changing after backup/restore
- ID 245:** Network interruptions cause the application to lose the connection to an S7-300
- ID 248:** Endpoint URL showing host name after import configuration
- ID 255:** The NCK Alarm Nodes show incorrect array dimensions
- ID 425:** Unresponsive app. when browsing big/deep address space with address space filter page

Product/Component	Image name	Tag	Date
edgeConnector Modbus	softingindustrial/edgeconnector-modbus	V2-20	01.06.21

1 New or enhanced features

- New Product variant edgeConnector Modbus
- Support for Modbus TCP PLCs and Sensors
- Read/Write/Subscribe Scalar datatypes (BIT, WORD, DWORD, REAL, INT, DINT, DOUBLE)
- Advanced Settings for changing Byte Order, Swap Settings, Unit ID etc.
- Symbolimport via Textfile with Modbus Item Syntax

2 Bug Fixes

- ID 362:** unitid 0 not correctly displayed in GUI

3 Known issues/limitation

- ID 27:** Denial of Service on web interface by deleting the user's authentication token
- ID 29:** Navigation Button does not work, when already selected in navigation panel
- ID 75:** S7-300/400 Unsupported datatypes shown as folder with SDFI-Import
- ID 76:** Support of special S7 Syntax with SDFI-Import
- ID 84:** S7-72 connection is not seen in OPC UA Objects if never online
- ID 89:** Unreachable license server blocks GUI for about two minutes
- ID 92:** Read result of powerline nck Drives area does not always match value from HMI
- ID 157:** Last Will & Testament - No character number limit is set for 'Message' field in GUI
- ID 158:** Address Space Overview: Status icon is missing from 'Destination' dialog
- ID 159:** Address Space Overview: 'Sources' dialog is missing 'Address' and 'Status' information
- ID 185:** Got empty alarm frames every 20ms when no active alarm (PL)
- ID 197:** Predefined Alarm text and alarm Parameters are missing
- ID 199:** Powerline Ch1_LineContent is not displayed correctly
- ID 215:** MQTT - ActiveAlarmJson: Publish request is send multiple times with empty alarm array
- ID 241:** Endpoint Thumbprint is changing after backup/restore
- ID 245:** Network interruptions cause the application to lose the connection to an S7-300
- ID 248:** Endpoint URL showing host name after import configuration
- ID 255:** The NCK Alarm Nodes show incorrect array dimensions

Product/Component	Image name	Tag	Date
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-10	26.05.21
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2-10	26.05.21

1 New or enhanced features

Common

- New licenses approach based on node id access (datapoint licensing) for individual node access
- Provides install scripts of floating licensing server for Linux
- Includes certificate-based authentication to MQTT broker
- Support for web-socket based MQTT connections
- Support for secured MQTT connections (SLL, WSS protocols)
- Support for connections to MQTT cloud providers (Azure, AWS)
- Improvements in Online Help

2 Bug Fixes

- ID 200:** Username and password config should allow cloud platform usernames and passwords
- ID 222:** Synchronization between destroying and creation of a MQTT connection
- ID 231:** The first data update for an MQTT publish request is lost
- ID 232:** Sending an MQTT message blocks the client module thread with risk of data loss
- ID 236:** [GUI] The application sends multiple DELETE request for deleting a rejected certificate
- ID 237:** [GUI] After performing a connection from the connection overview page the GUI will try to obtain the Trusted and Rejected certificates.
- ID 238:** Issue when the same certificate is imported into trusted and rejected directory
- ID 240:** Remove all certificates from trusted directory when a new certificate is imported
- ID 260:** Test connection is not working from Connection page
- ID 264:** MQTT publisher overview shows horizontal scrollbar
- ID 266:** Periodic data update not applied correctly in the PLC client module
- ID 271:** The request for deleting sessionID is sent even if the connection is saved
- ID 272:** When a new MQTT connection is created we get "Unknown sessionId" error
- ID 280:** Retrieve certificate is not working when MQTT proxy is configured for WSS connection
- ID 292:** edgeConnector840D: Help Button is missing for PLC settings
- ID 305:** Hawk Library issue with S7-2 redundancy mechanism
- ID 381:** The Address Space destinations dialog shows faulty content in some special cases

3 Known issues/limitation

- ID 27:** Denial of Service on web interface by deleting the user's authentication token
- ID 29:** Navigation Button does not work, when already selected in navigation panel
- ID 75:** S7-300/400 Unsupported datatypes shown as folder with SDFI-Import
- ID 76:** Support of special S7 Syntax with SDFI-Import
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- ID 215:** MQTT - ActiveAlarmJson: Publish request is send multiple times with empty alarm array
- ID 241:** Endpoint Thumbprint is changing after backup/restore
- ID 245:** Network interruptions cause the application to lose the connection to an S7-300
- ID 248:** Endpoint URL showing host name after import configuration
- ID 255:** The NCK Alarm Nodes show incorrect array dimensions
- ID 288:** App is not up and running after backup and restore configuration in special case (MQTT uses PLC items no longer available)
- ID 250:** Initial value is sent twice from modules using VariableNode from SDK
- ID 343:** Sporadic crash of application when stressing MQTT test connection
- ID 373:** [GUI] Not all windows remain centered at zoom
- ID 372:** Memory leak in PkiStoreManager class used in OpcUaClient module

Product/Component	Image name	Tag	Date
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-05	17.02.21
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2-05	17.02.21

1 New or enhanced features

edgeConnector 840D

- Enhanced the automated tooling data

Common

- Switched to Datapoint/Tag-based licensing model (monitoring, read/write)
- Demo mode with 72h runtime now only allows 100 data points/tags
- Updated Rest-API description – available on request

2 Removed features

- Removed connection-based licensing model
- Removed connection-based demo mode

3 Bug Fixes

- ID 74:** Timer and Counter are not imported with correct datatype with SDFI-Import
- ID 129:** Unreasonable CPU load with SINUMERIK connection
- ID 144:** Crash when unsubscribe nodes with UA
- ID 206:** Subscribed nodes got "BadDisconnect" after PLC restart
- ID 209:** 840D PLC alarms in wrong order
- ID 210:** 840D intermittent PLC alarm on data change events for PLC alarm nodes
- ID 212:** Subscriptions failure with S7-300 PLC connection
- ID 214:** Duplicated alarms in node ActiveAlarmsJson in 840D
- ID 217:** Tooling - Spindle does not show Monitor information
- ID 218:** Performance problem with onDataChangeEvent for user generated PLC alarm
- ID 219:** Tooling nodes which contains no values switch quality
- ID 220:** onDataChangeEvent with Null content for PLC Alarms
- ID 222:** Synchronization between deleting and creation of a mqtt connection

4 Known issues/limitation

- ID 27:** Denial of Service on web interface by deleting the user's authentication token

- ID 29:** Navigation Button does not work, when already selected in navigation panel
- ID 75:** S7-300/400 Unsupported datatypes shown as folder with SDFI-Import
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- ID 248:** Endpoint URL showing host name after import configuration
- ID 255:** The NCK Alarm Nodes show incorrect array dimensions
- ID 292:** edgeConnector840D: Help Button is missing for PLC settings

Product/Component	Image name	Tag	Date
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V2-00	30.09.20
edgeConnector 840D	softingindustrial/edgeconnector-840d	V2-00	30.09.20

1 New or enhanced features

edgeConnector 840D

- Changed the alarm format for NCK alarms
- Provide automated tooling data
- Support user defined alarms (SolutionLine)

Common

- Support for MQTT Protocol and possible connection to a MQTT Broker
- MQTT Broker Connection w/o encryption
- Configuration page for MQTT (Connection, Payload, Topic, Advanced Settings, QoS)

2 Bug Fixes

- ID 47:** Support Data Download not working
- ID 187:** PL Drive and IO alarm has no text in 840D
- ID 190:** Tooling internal subscription cause performance issue

3 Known issues/limitation

- ID 27:** Denial of Service on web interface by deleting the user's authentication token
- ID 29:** Navigation Button does not work, when already selected in navigation panel
- ID 75:** S7-300/400 Unsupported datatypes shown as folder with SDFI-Import
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- ID 185:** Got empty alarm frames every 20ms when no active alarm (PL)
- ID 197:** Predefined Alarm text and alarm Parameters are missing
- ID 199:** Powerline Ch1_LineContent is not displayed correctly
- ID 206:** Subscribed nodes got "BadDisconnect" after PLC restart
- ID 209:** 840D PLC alarms in wrong order
- ID 210:** 840D intermittent PLC alarm on datachange events for PLC alarm nodes

- ID 212:** Subscriptions failure with S7-300 PLC connection
- ID 214:** Duplicated alarms in node ActiveAlarmsJson in 840D
- ID 217:** Tooling - Spindle does not show Monitor information
- ID 218:** Performance problem with onDataChangeEvent for user generated PLC alarm
- ID 219:** Tooling nodes which contains no values switch quality
- ID 220:** onDataChangeEvent with Null content for PLC Alarms
- ID 222:** Synchronization between deleting and creation of a mqtt connection

Product/Component	Image name	Tag	Date
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V1-20	27.07.20
edgeConnector 840D	softingindustrial/edgeconnector-840d	V1-20	27.07.20

1 New or enhanced features

edgeConnector Siemens

- Support for Siemens S7-300/400 PLCs
- Symbol Import for S7/TIA Projects as sdfi File
- Connection Configuration for Siemens S7-300/400 PLCs
- S7-Simulation Mode (simulated S7-1500 with random data change events)

edgeConnector 840D

- Improved stability from the PLC/NCK connection
- Improved speed – parallel requests
- Subscribe PLC alarms
- Support of reading GUD-variables and R-Parameters

Common

- Enhanced stability/performance for all PLC connections
- License error handling improvements
- Extended Documentation & Help
- Backup and restore configuration

2 Bug Fixes

- ID 47:** Support Data Download not working
- ID 48:** Help button is not working (404)
- ID 93:** Application crash when trying to restore/backup configuration
- ID 96:** S7-300/400 connection Bool Array value is null
- ID 98:** GetEndpoints returns invalid format for 4 endpoints
- ID 103:** S7 Simulator: invalid range of random generated values of datatype DateTime
- ID 105:** Status code of items from S7 simulator shows Good when simulator is disconnected

3 Known issues/limitation

- ID 75:** S7-300/400 Unsupported datatypes shown as folder
- ID 89:** Unreachable license server blocks GUI for about two minutes

Product/Component	Image name	Tag	Date
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V1-10	04.06.20
edgeConnector 840D	softingindustrial/edgeconnector-840d	V1-10	04.06.20
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	V1-10-1	30.06.20
edgeConnector 840D	softingindustrial/edgeconnector-840d	V1-10-1	30.06.20

1 New or enhanced features

edgeConnector Siemens

- License handling for dynamic connections
- Update of S7 protocol library (patch1)

edgeConnector 840D

- Read/Subscribe Data from NCK Area SolutionLine/PowerLine
- Read/Write/Subscribe Data from PLC Area SolutionLine/PowerLine
- Symbol Import – awl-files for NCK, sdfi-files for PLC
- Integration of pre-defined symbol files for NCK and PLC area
- Subscribe NCK alarms
- Show status of PLC+NCK connection

Common

- GUI Improvements (license overview, menu structure, headlines, icons, etc.)
- License error handling and fallback
- Documentation and help available at GitHub

2 Bug Fixes

- ID 49:** OPC UA quality of subscribed value does not reflect connection state
- ID 52:** Connection configuration edit triggers a reconnect even without no changes
- ID 73:** License overview displays wrong/not matching licenses
- ID 81:** Cannot load sdfi file
- ID 86:** Adding license server results in http error 500

3 Known issues/limitation

- ID 47:** Support Data Download not working
- ID 48:** Help button is not working (404)

Product/Component	Image name	Tag	Date
edgeConnector Siemens	softingindustrial/edgeconnector-siemens	v1-00	14.4.20

1 New or enhanced features

- Application runs as Docker Container in Linux environments
- Local web-based user interface
- Support for Siemens S7 1200/1500 PLCs
- Connection Configuration for Siemens S7 1200/1500 PLCs
- OPC UA Services – OPC UA Browse/Read/Write/Subscribe
- Demo-Mode with 72h runtime
- Licensing via Softing Floating License Server

2 Bug Fixes

- none

3 Known issues/limitation

- ID 47:** Support Data Download not working
- ID 48:** Help button is not working (404)
- ID 49:** OPC UA quality of subscribed value does not reflect connection state