Release Notes

dataFEED edgeConnector

Version 3.80
### 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.

### 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.

### Known issues/limitation

- None
### 4 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.

### 5 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.

### 6 Known issues/limitation

- None
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</table>

7 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

8 Bug Fixes
- none

9 Known issues/limitation
- None
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10 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.

11 Bug Fixes

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

12 Known issues/limitation

- **ID 821**: PSIRT 2023-03 Session Theft due to XSS
- **ID 822**: PSIRT 2023-04 Loading Remote Javascript Scripts
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13 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

14 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 “PersistanCeInFS” 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

15 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 no logout the first one

☐ **ID 811**: The REST call for system restart should not return before the system restart is actually initiated
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16 New or enhanced features

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

17 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 must 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

18 Known issues/limitation

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- ID 84: S7-72 connection is not seen in OPC UA Objects if never online
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- ID 92: Read result of powerline nck Drives area does not always match value from HMI

edgeConnector Siemens, edgeConnector 840D, edgeConnector Modbus
ID 185: Got empty alarm frames every 20ms when no active alarm (PL)
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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
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ID 586: MQTT Publisher is not publishing after backup restore until a restart of the application is made
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19 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

20 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

21 Known issues/limitation

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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
### 22 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

### 23 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

### 24 Known issues/limitation

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25 New or enhanced features

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

26 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”

27 Known issues/limitation

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**28 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

**29 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

**30 Known issues/limitation**

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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
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.
- Symbol import via Textfile with Modbus Item Syntax

2 Bug Fixes

- ID 362: unitid 0 not correctly dispalyed 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
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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
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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

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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 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
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## 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

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## 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
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- **ID 209**: 840D PLC alarms in wrong order
- **ID 210**: 840D intermittent PLC alarm on datachange events for PLC alarm nodes

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edgeConnector Siemens | softingindustrial/edgeconnector-siemens | V2-00 | 30.09.20
edgeConnector 840D | softingindustrial/edgeconnector-840d | V2-00 | 30.09.20
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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**: GetEnpoints 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
### 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

### 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

### Known issues/limitation

- **ID 47**: Support Data Download not working
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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