

Release Notes

dataFEED edgeConnector

Version 2.21

Patch 2.21.1

Patch 2.21.2

| Product/Component | Image name | Tag | Date |
|-----------------------|---|---------|----------|
| edgeConnector Modbus | softingindustrial/edgeconnector-modbus | V2-21 | 17.06.21 |
| 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

- 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
- 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 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
- 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
- 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 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
- 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 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
- 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 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