Release Notes

dataFEED OPC Suite

1 Product and components

Product/Component	File name	Version
dataFEED OPC Suite	dataFEEDOPCSuite_V_5_00.zip	5.00

2 Important Note:

dataFEED OPC Suite Version 5.00 requires a new Version 5.00 license. The old licenses of Version 4.x do not work with the new dataFEED OPC Suite Version 5.00

3 New or enhanced features

❒ Support for OPC UA Store And Forward Server Side
Buffering of data in case of broken connections between dataFEED OPC Suite UA Server and OPC UA Clients and automatic transmission once connection has been re-established

❒ Support for Multiple OPC UA User
Possibility to use up to 5 OPC UA User for each OPC UA Endpoint

❒ Certificate generation based on OpenSSL
Previous versions of the product are using Certificate Generation Software from OPC Foundation on certificate generation process. The Configurator generates now the application certificates by using the OpenSSL library.

❒ Support for new OPC UA Security Policies
Possibility to use now the newest security policies for OPC UA Connections.
Aes128Sha256RsaOaep, and *Aes256Sha256RsaPss*

❒ Support for Persistent Namespace Index
Possibility to persist the namespace indexes - adding or removing new connections will not change the namespace index.

❒ New Version of OPC UA LDS Server
A new Version 1.03.401 of the LDS Server from the OPC Foundation was integrated.

❒ Certificate Lifetime changed (ID 4314)
The Lifetime for the OPC UA Application Certificates created by the Configurator was changed to 5 years.

3.1.1 Bug fixes

❒ **ID 4103**   B&R Filter doesn't work correctly

❒ **ID 4105**   dataFEED Namespace Identifier is not possible with "urn:"

❒ **ID 4139**   Port Scan&DDoS attacks cause runtime crash

❒ **ID 4148**   Namespace arrays contains "not conform" values

☐ **ID 4150** False information are exposed on OPC UA Server Namespace 0

☐ **ID 4536** OPC UA Service Groups are not correct exposed on OPC UA Server

☐ **ID 4777** Security certificate generation failed for OPC UA Server Module

4 History

4.1 Changes in Release 4.61

4.1.1 New or enhanced features

☐ Timestamp format for data destination File and MQTT Broker
Implemented possibility to specify the Timestamp format for the data destination File and MQTT Broker

4.1.2 Bug fixes

☐ **D 4701** Port Scan&DDoS attacks cause runtime crash

4.2 Changes in Release 4.60

4.2.1 New or enhanced features

☐ Support for MQTT Endpoint functionality
Possibility to connect IoT Device – MQTT Publisher direct to the dataFEED OPC Suite, without the need of a MQTT broker.
The new Data Source MQTT Publisher is part of the dataFEED OPC Suite License

☐ Backup and Restore includes now the certificates
Possibility to include in the Backup File the certificates

4.2.2 Bug fixes

☐ **ID 4130** UA Client - Application/Product URI contains not allowed/invalid characters

☐ **ID 4144** Incompatibility problems with Ascolab .net OPC UA Server and Client

☐ **ID 4207** Connections to some Embedded Beckhoff OPC UA Servers cannot be established

☐ **ID 4305** Certificates were not deleted from LDS Server when a configuration was deleted

☐ **ID 4358** Configurator crashes on REST or MindSphere connection test

☐ **ID 4556** Feature Selection Windows was removed after system installation

4.3 Changes in Release 4.51 (Note: The fix is not included in release 4.60, 4.61, 5.00)

4.3.1 Bugfixes

☐ **ID 4585**   Runtime crashed when forcing remove group on a tunnel connection and bforce flag is set to true.

4.4 Changes in Release 4.50

4.4.1 New or enhanced features

☐ Support for MindSphere Connector functionality
Possibility to store data from Data Sources like PLC's to the Siemens MindSphere Cloud.
The new Data Destination MindSphere is part of the dataFEED OPC Suite License.

☐ Support for Store & Forward for Data Destination MQTT Publisher
The MQTT Publisher was extended to support Store & Forward

☐ Support for MQTT via Web Sockets
The MQTT Publisher was extended to support MQTT via WEB Sockets

☐ Support for WEB Proxy for Data Destination MQTT Publisher
The MQTT Publisher was extended to support connections via WEB Proxy.

4.4.2 Bug fixes

☐ **ID 3808**   Variable trigger: Import and Export are on the wrong page

☐ **ID 4143**   data FEED OPC Suite cannot be stopped/restarted

☐ **ID 4187**   UA Client - translate browse path to node ids having an unsupported data types providing a node which was not usable

☐ **ID 4206**   Application hangs when unsubscribing a high number of items

☐ **ID 3866, ID 4001, ID 4167,** The Application crashes
ID 4242, ID 4272, ID 4283

4.5 Changes in Release 4.49

4.5.1 New or enhanced features

☐ Support for Siemens SIMATIC S7-1200 firmware V04.02.03 and S7-1500 firmware V02.06.0
Possibility of using SIMATIC S-7-1200 with firmware V04.02.03 and S7-1500 with firmware V02.06.0 as of TIA version 15.1.

4.6   Changes in Release 4.48

4.6.1 New or enhanced features

❐   Toolbar for Main Functions
    Implemented a Toolbar for the main functions like start, stop, save…

❐   Timer Trigger for Exchange
    Possibility to use timer trigger for the data exchange

❐   UA Server – VQT filter option
    Possibility to use VQT filter attributes at OPC UA write operations

❐   Not sending Initial Values to database0
    Possibility to not send the initial values (OPC BadWaitingForInitialData) at a startup.
    This option is configurable via Configurator at Settings – Advanced – Send Initial Value

❐   UA Server – VQT filter option
    Possibility to use VQT filter attributes at OPC UA write operations

❐   Siemens RFC 1006 Address Space Import Wizard
    Allow the possibility to import directly under the root node with/without the deletion of current
    address space even if the selected node is not the connection root node.

❐   New Version of dataFEED OPC UA Client und Demo Server
    dataFEED OPC UA Client and OPC UA Demo Server were updated to Version 4.44

❐   New Version of OPC UA Discovery Server
    OPC UA Discovery Server was updated to Version 1.03.371

❐   New Version of Softing License Manager
    Softing License Manager was updated to Version 4.30

4.6.2 Bug fixes

❐   **ID 946**   AE Server connections with prefix on the server side are not handled correctly

❐   **ID 2355**   UA calls for TranslateBrowsePathToNodeId are not working for XML-DA and Rockwell
    SLC connections

❐   **ID 2687**   Browse CLX device at startup doesn't work correctly

❐   **ID 3045**   OPC Classic client fails to subscribe to variables with special characters in identifier
    from OPC UA server

❐   **ID 3337**   Browsing a UA connection which contains variables having as data type a
    multidimensional array (matrix)

❐   **ID 3338**   UA Client - translate browse path to node ids having an unsupported data types
    providing a node which was not usable

❐   **ID 3342**   UA Client - IO operations are not supported for arrays of Integer, Number and
    UInteger

❐   **ID 3344**   UA Client - Items which containing "|" character can't be validated over a OPC Tunnel
    Connection

❐ **ID 3353**   Configurator - Recursive browse is going into an infinite loop while hierarchical references are between different node types

❐ **ID 3541**   Incompatibility issues with Citect OPC Server

❐ **ID 3604**   Write of String values which containing special characters (üöä) using the S7-2 Protocol are not correctly written

❐ **ID 3774**   Compatibility issues with LDS version 1.03

❐ **ID 3838**   MQTT – Exchange: to many values were published

❐ **ID 3899**   Add-ons like database items were written twice

❐ **ID 3943**   Crash when deleting Local Items

❐ **ID 3966**   Configurator – REST parameters, from REST action bodies and headers, cannot be edited or deleted if the Key contains the "/" character.

❐ **ID 3981**   Local item default values for datatypes UI4 and UI8 cannot be set in the configurator

❐ **ID 3985**   Configurator crashes when adding Variable Trigger with the same name as a Timer Trigger

4.7   Changes in Release 4.47

4.7.1 New or enhanced features

❐ Variable Trigger for Add-Ons
Possibility to use variable & flexible trigger for the Add-ons like data destination database.

❐ MQTT Time Zone
 possibility to select a time zone for MQTT connections.

4.7.2 Bug fixes

❐ **ID 2402**   Configurator problems on Full HD Ultra Wide screens

❐ **ID 2989**   German character improperly displayed when importing .sdfi file

❐ **ID 2990**   Import .sdfi File - missing data blocks after import

❐ **ID 2991**   Global Save shortcut doesn't work while Tunnel/OPC Server main widget is active

❐ **ID 2999**   Start runtime takes a long time if configuration includes unreachable plc connections

❐ **ID 3000**   Runtime crashed when starting a configuration with unreachable plc connections

❐ **ID 3050**   Wrong look and feel of Configurator running on Windows 10 with factor scale > 100%

❐ **ID 3290**   Very fast unsubscribe/subscribe operations will freeze the data changes

❐ **ID 3312**   Time zone settings are not applied correctly for REST Client connections

❐ **ID 3330**   Private key fields appear when configuring a MongoDB connection

❐ **ID 3347**   UA Client - Connection "Lost Notification" is not sent to monitored items

☐ **ID 3436** Advanced exchange action can`t be switch back to "simple" exchange action

☐ **ID 3440** Text is cut in Export MQTT Topics wizard

☐ **ID 3631** Exchange: The bottom scroll bar for LocalNamespace box doesn't appear

☐ **ID 3648** Crash when stopping the application

☐ **ID 3649** S7-02 connection doesn't export all data-types correctly

☐ **ID 3693** Runtime crashed with advanced exchange actions

☐ **ID 3711** Connect and refresh on S7-02 filtered connections doesn't retrieve address-space

☐ **ID 3738** S7-2 protocol memory leak

☐ **ID 3752** Data Source OPC UA: quality doesn't change when the destination is not available

☐ **ID 3796** Memory leak with invalid S7-02 connections

☐ **ID 3800** Configurator freezes when adding an exchange action

☐ **ID 3801** Data changes not received for UA byte arrays

☐ **ID 3809** Add-ons actions not executing unless the item is subscribed

☐ **ID 3853** MQTT: Performance problems

☐ **ID 3869** UA items are not validated after reconnect

4.8   Changes in Release 4.45

4.8.1 New or enhanced features

☐ Support for Siemens SIMATIC S7-1200 and S7-1500 with optimized data blocks
Possibility to access data from Siemens SIMATIC S7-1200 and S7-1500 controllers with optimized data blocks.

☐ Support for online browsing of SIMATIC S7-1200 and S7-1500
Possibility to browse the symbols online from the Siemens SIMATIC S7-1200 and S7-1500 controllers.

4.8.2 Bug fixes

☐ **ID 3045** OPC Classic client fails to subscribe to items with special characters at the OPC UA Server identifier

☐ **ID 3454** Crash in MQTT library

4.9   Changes in Release 4.40 Patch 1

4.9.1 New or enhanced features

❒   Support for REST Client functionality
Possibility to store data from Data Sources like PLC's to a REST Server.
The REST Client functionality is part of the dataFEED REST Connector or dataFEED OPC Suite
License.

❒   Support for NoSQL Database functionality
Possibility to store data from Data Sources like PLC's to a NoSQL Database.
Supported Databases: MongoDB, couchDB
The REST Client functionality is part of the dataFEED OPC Data Handler or dataFEED OPC Suite
License.

❒   Single namespace on UA Server data destination
Possibility to expose all the configured Data Sources in a unique namespace over data
destination OPC UA Server

❒   MQTT Messages including Item ID
Support for sending the source item id on advanced exchange actions with MQTT items

❒   Extended MQTT Client ID
Support for Client ID's with more than 23 characters

4.9.2 Bug fixes

❒   **ID 1730**   Modbus multi write of bytes is sometimes not working correctly

❒   **ID 2572**   Multi write with byte mask is sometimes not work correctly

❒   **ID 2666**   Memory leaks on PLC and MQTT connections

❒   **ID 2765**   S7 String Arrays conversion from older configuration arrays is not working correctly
(data, s5time, data and time)

❒   **ID 2773**   Data Source OPC UA Client doesn't support all basic datatypes from the Siemens OPC
UA Server (S7-1500)

❒   **ID 2801**   Wrong log entry when a Data Destination database write connection is disabled

❒   **ID 2809**   dataFEED OPC Suite runtime crashed in MSVCR100.dll

❒   **ID 2887**   Data Source database read wrong translation at the context menu activate/inactive

❒   **ID 2945**   dataFEED OPC Suite can not be started

❒   **ID 3035**   Tray Application is not restarted automatically with Administrator rights

❒   **ID 3054**   OPC UA Server certificates are re-generated unexpectedly

❒   **ID 3134**   Data Source Database Read actions are not executed with Microsoft Access

❒   **ID 3197**   Configurator hangs during MQTT topics export

4.10 Changes in Release 4.31 Patch 2

4.10.1 New or enhanced features

❒ Alarm&Events - Configurable delay in requesting the area space
Connecting to an Alarm&Events Server and requiring the area space definition is going into an unpredictable state - the server is responding with a partial area space due the reason that the initialization is not completely done.
There were implemented a configurable delay time between connect and get area space operations.

4.10.2 Bug fixes

❒ **ID 2666**   Memory leaks reported on PLC and MQTT connections.

❒ **ID 3035**   OSF Tray is not restarted automatically with Administrator access rights when required.

4.11 Changes in Release 4.31

4.11.1 New or enhanced features

❒ Supporting String Array
Possibility to read/write sting arrays from Siemens SIMATIC S7 Controller

❒ Timestamp format for data destination File
Implemented possibility to specify the Timestamp format for the data destination File.

❒ OPC UA Certificate Manager
Implemented Certificate Manager for data destination OPC UA Server

❒ Support for Symbol Segment (Tag Name) Addressing to Rockwell CLX PLC's
Implemented possibility to use Symbol Segment (Tag Name) Addressing as access mode for Rockwell CLX PLC's

4.11.2 Bug fixes

❒ **ID 2807**   Data source Database Read does not send continuously values to data source OPC Server

❒ **ID 2702**   Bool values are not converted from OPC DA to OPC UA

❒ **ID 2404**   dataFEED deliver a wrong Value after write

❒ **ID 2741**   Configurator: Configuration rename generates an inconsistent configuration

❒ **ID 2627**   Wago Symbol File import doesn't work

4.12   Changes in Release 4.22

4.12.1 New or enhanced features

☐   **ID 1674**   Support for check PLC connections.
Possibility to check the connection status of a PLC connection using the Configuration Tool. The
testing of the connection is available for the following PLC families:
- Siemens (S7, S5, netLink Pro, Send/Receive)
- Rockwell (Compact / Controll Logix, SLC / PLC5)
- Modbus TCP
- Mitsubishi Melsec Q

☐   **ID 1693**   Support for configuring the monitored items into Web Server.
Posibility to manualy configuring (using the Configuration Tool) the items which are
automatically subscribed/monitored into the Web Server.

☐   **ID 1876**   Configurable namespace delimiter for all supported data sources and destinations.
Possibility to configure the namespace delimiter for all supported data sources. This is
configurable using the Configuration Tool and applicable for all supported data sources and
destinations. Also, this is applicable online for all defined data processors.

In addition this functionality can be applied to an already existing configuration.
All exposed destinations are using the configured namespace delimiter:
- OPC Classical DA/XML-DA and Tunnel
- OPC UA
- 2File/2Database

☐   **ID 1888**   Support for initial/default value and quality for local items.
Possibility to initialize a local item with a configured value and quality (previous version is
initializing all defined local items using NULL as value and OPC_BadWaitingForInitialData(0x20)
as quality).
The initial/default value is allowed being defined only for non BAD qualities.

☐   **ID-2027**   Support for USInt and UDInt into the importing TIA files.
The parser of sdfi file extended in order to support these data types.

☐   **ID 2129**   Support for static/filtered B&R connections. Possibility to apply a filter on B&R
connections.
The following functionalities were implemented:
- address space filtering: exposing only partially address space of the connected B&R device.
- address space altering: exposing a user defined hierarchy.

☐   **ID 2208**   Support for full range on Rack/Slot setting (TSAP).
Possibility to define a Rack/Slot (own TSAP) using the full supported range:
- Slot: 0-F
- Rack: 0-1F

☐   **ID 2219**   Evaluation of conditions executed for items used inside the actions.
The evaluation of the defined condition was extended in order to not being executed only for
items defined in trigger items, the evaluation extended also for items used in actions.

❐ **ID 2306** 2File add-on different time format
Possibility to set the time localization (UTC or Local) for 2 File add-on

❐ **ID 2384** Also, on the visualization UI the values are using decimal display instead on hexadecimal display.

❐ **ID 3133** Display the set of licensed required for used defined configuration.
Possibly to visualize the set of required licensed for a defined configuration.

❐ Support for Translate Browse Paths to Node Ids for not validated stating nodes.
Possibility to call translate browse paths to node id for starting nodes which are not already validated.

4.12.2 Bug fixes

❐ **ID 1350** Read from cache is not possible for B&R connections

❐ **ID 1694** Configurator tools crashing on browsing Leatus OPC Server

❐ **ID 1715** Crash on multiple subscribe/unsubscribe operations

❐ **ID 1717** UA Server Endpoint should contain correct Hostname for configuration1 (instead of localhost)

❐ **ID 1788** Runtime crashed by monitoring special items over tunnel connection

❐ **ID 1808** Special characters Ö,Ü are not handled correctly

❐ **ID 1879** Specific S7 Project can't be imported.

❐ **ID 1881** Run-time crashes when performing write calls and stressful subscribe\unsubscribe

❐ **ID 2074** Application crash Exchange functionality.

❐ **ID 2091** Crash on subscribing a big number of items

❐ **ID 2148** Crash on reading values from cache for PLC connections

❐ **ID 2151** Memory consumption on successive browse operation for B&R connections.

❐ **ID 2177** Crash on activation/deactivation of a group containing a big number of items

❐ **ID 2178** Crash on browsing the Resotec OPC Server

❐ **ID 2181** Write fails with same transaction ID for two different items

❐ **ID 2183** Issues on simultaneous write operations

❐ **ID 2186** Installation error of B&R components

❐ **ID 2187** Problems on stopping/restarting application

❐ **ID 2191** Installation error on Windows 7 Enterprise SP1

❐ **ID 2224** Request invalidated for Modbus connections on system items using Unit Ids.

❐ **ID 2257** Extended ASCII characters are not transported correctly over PLC connections

❐ **ID 2270** Initial quality being reported as BAD after registering an item on Siemens connection

❐ **ID 2273** DataFEED crash on tunnel connection

❐ **ID 2275**   Memory leaks on monitoring System items

❐ **ID 2287**   Application crash when Tunnel port is used by other application/instance

❐ **ID 2288**   Local items can't be initialized with a OPC UA client

❐ **ID 2290**   The Configuration tool is crashing while trying to receive the activated licenses

❐ **ID 2298**   UDT symbols not imported from TIA project

❐ **ID 2303**   Configuration Tool crashing on importing a specific alias file.

❐ **ID 2304**   Crash on dataFEED Tunnel communication

❐ **ID 2319**   Crash on rebrowsing Zenon OPC Server.

❐ **ID 2322**   DataFEED tunnel crash on accessing Schneider Electric OPC Serve factory.

❐ **ID 2328**   Memory leaks discovered on validate service call for "invalid" items

❐ **ID 2330**   String values contain special characters (German) are not handler correctly

❐ **ID 2331**   Not all tags are imported from a TIA project file.

❐ **ID 2341**   Configurator tool crash on Windows 8.1 x64 - when changing items properties on MQTT connections

❐ **ID 2344**   The HASP driver fails to install and deinstall while dongle is plugged in

❐ **ID 2362**   Exception when stop run-time with Exchange actions are activated

❐ **ID 2363**   Exception when stop run-time when Exchange and ToFile are activated

❐ **ID 2364**   The 2File action writes in the file even though the item trigger is static

❐ **ID 2392**   Retry mechanism for items validation does not work properly on UA Server connections

❐ **ID 2406**   Parameter SEPARATOR_SEMICOLON can't be backup and restored

❐ **ID 2408**   Performance issues on accessing CLX devices

❐ **ID 2410**   Application crash on using item ids longer than 256 characters for UA connections

❐ **ID 2454**   Crashes if syntax item is longer than 256 characters (Demo Client)