Release Notes

dataFEED OPC Suite
1  **Product and components**

<table>
<thead>
<tr>
<th>Product/Component</th>
<th>File name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>dataFEED OPC Suite</td>
<td>dataFEEDOPCSuite_V_5_05.zip</td>
<td>5.05</td>
</tr>
</tbody>
</table>

2 **Important Note:**

DataFEED OPC Suite Version 5.05 requires a Version 5.00 license. The old licenses of Version 4.x do not work with the new DataFEED OPC Suite Version 5.00 or newer.

3 **New or enhanced features**

- **ID 2362** Possibility to configure a delay between an establishment of an AE Connection and the creation of subscription
- **ID 3705** Extension of variable trigger with "since last value"  
  Expansion of the variable trigger in LE/FE/CHD with new option: since last value
- **ID 3308/ID 3589** Support for BaseDataType “variant” variables on data source OPC UA Server
- **ID 4417** Possibility to switch Boolean values -1 (as true) to 1 on data destination file
- **ID 4897** Extended Logging with additional information like configuration is running as service/application, start/stop time, ...

4 **Bug fixes**

- **ID 1997/ID 4672** XML-DA port is always open even if the XML-DA Server or/and the Web Server is deactivated
- **ID 2146** System Items: data source Siemens, PLC status does not work correctly compared to Softing S7/S5 OPC Server
- **ID 2725** Tunnel Server stops running after certain time
- **ID 2366** UA Certificate cannot be created if the Configuration Name is longer as 27 characters.
- **ID 3234** Write on an Item trigger will trigger the action twice
- **ID 3526** Exchange functionality is sometimes slow
- **ID 4040** Problem with the connection timeout of the S7-2 protocol
- ID 4042  Syntax "MD" is interpreted as UI4 32-bit unsigned integer instead of a real
- ID 4095  German special characters (Ä,ä,Ö,ö,Ü,ü) are not supported for node id on Siemens S7-2 connections
- ID 4077  License is sometimes not recognized correctly
- ID 4190
- ID 4245  Connection to Siemens PLC with S7-2 protocol is interrupted every 6 hours
- ID 4259  MySQL driver V8.0.15 does not work with dataFEED OPC Suite
- ID 4322  System Item: PLC status shows incorrect information
- ID 4377  Data source Modbus is sending queries for different unit ids without waiting for the response to the first query
- ID 4479  It is not possible to change the option “source identifier” on exchange action
- ID 4549  dataFEED OPC Suite freezes if the connected Siemens PLCs are offline/down for some certain time when S7-2 Protocol is used
- ID 4555  OPC UA Client cannot browse data when two S7-2 connections are active
- ID 4650  ByteArray to ByteString conversion does not work correctly
- ID 4664  dataFEED OPC Suite freezes after 4-5 hours every day
- ID 4668  At the Restore/Backup of a configuration it is not possible to select a network share
- ID 4670  The stored procedure is incorrectly displayed as an SQL statement
- ID 4671  ODBC driver Version 8.0 is producing Syntax Error for String items
- ID 4685  The CHD option cannot be selected on a variable trigger for data type Boolean
- ID 4688  Acting as OPC UA -> OPC Classic Gateway, OPC messages sequence is swapped at special cases
- ID 4700  OPC Classic Store&Forward connection to Tunnel Server stops working after some time
- ID 4701  Application crash on port scan
- ID 4748  Uninstallation does not delete all files
- ID 4752  At the end of the REST server address, an additional slash "/" was incorrectly added
- ID 4759  dataFEED OPC Suite crash sporadically when S7-2 Protocol is used
- ID 4776  At PostgreSQL database connections old sessions are not closed correctly
- ID 4791  CLX name-based read of a bool variable gets bad quality
- ID 2891, ID 3137 ID 3368, ID 4083, ID 4209, ID 4495, ID 4585, ID 4621, ID 4631, ID 4701, ID 4820, ID 4882  dataFEED OPC Suite crashes
5 History

5.1 Changes in Release 5.00

5.1.1 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

5.1.2 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.

5.1.3 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
### 5.2 Changes in Release 4.63.1 (Note: The fixes are not included in release 5.00)

#### 5.2.1 Bug fixes

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<td>Incorrect handling of the device ID at Modbus connections</td>
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### 5.3 Changes in Release 4.61

#### 5.3.1 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

#### 5.3.2 Bug fixes

- D 4701 | Port Scan&DDoS attacks cause runtime crash
5.4 Changes in Release 4.60

5.4.1 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

5.4.2 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

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

5.5.1 Bugfixes

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

5.6 Changes in Release 4.50

5.6.1 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.

5.6.2 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

5.7 Changes in Release 4.49

5.7.1 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.

5.8 Changes in Release 4.48

5.8.1 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

5.8.2 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
5.9 Changes in Release 4.47

5.9.1 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.

5.9.2 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 3330 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 3396 Advanced exchange action can’t be switch back to "simple" exchange action
- ID 3400 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 a reconnect

5.10  Changes in Release 4.45

5.10.1  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.

5.10.2  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

5.11  Changes in Release 4.40 Patch 1

5.11.1  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
5.11.2 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, sTime, 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 active/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

5.12 Changes in Release 4.31 Patch 2

5.12.1 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.

5.12.2 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.
## 5.13 Changes in Release 4.31

### 5.13.1 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

### 5.13.2 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

## 5.14 Changes in Release 4.22

### 5.14.1 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.
  Possibility to manually 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.

- **Id 2179** 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.

**5.14.2 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 handled 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)