**echocollect e (OPC)**

Embedded OPC UA Server Gateway for Machine Data Management

**ECHOCOLLECT e (OPC)** is an industrial application gateway adding a modern process data management solution to existing systems. It offers direct OPC Unified Architecture (UA) and OPC Classic connectivity. In addition, the functionality includes a web-based visualization of process, manufacturing and quality data as well as local data logging.

**Unified Way for Acquiring Process and Quality Data**

- Independent collection of manufacturing, process or quality data directly from PLCs and delivery to higher level management system, such as ERP or MES systems
- Recipe manager functionality for writing data blocks to PLCs
- Data acquisition using standardized, open and platform independent OPC UA protocol
- Option for parallel data logging on SD card for traceability reasons

**Easy Local and Global Networking**

- Easy implementation of complex networks using OPC UA protocol
- Secure and flexible TCP/IP based protocol supporting routers and firewalls
- No need for OPC tunneling or complex DCOM configuration
- Support of network separation between production systems and commercial IT networks

**Lowering IT Maintenance Costs**

- Connection of PLCs with remote MES or ERP systems using embedded OPC UA Server without requiring dedicated OPC Server
- Independence of integrated current or future ERP and SCADA system of Windows or Linux operating systems as well as of using mainframe servers, PCs or mobile devices
- Working for years once configured – untouched, without updates, and with zero maintenance costs
- Support of plug-and-go replacement based on configuration stored on SD card
  - Very easy configuration

**Easy Live Data Visualization**

- HMI based on native web technology for easy and cost-efficient visualization of process, manufacturing and quality data using a standard web browser without any plug-ins
- No need for an OPC Server or complex SCADA system
- Scalable, resolution-independent vector graphics for consistent display of data on wide variety of network enabled devices
Technical Data

Ethernet Addressable Controllers: Siemens SIMATIC S7 and S5, controllers with Modbus TCP (Wago, Beckhoff, Phoenix, Schneider, etc.), Mitsubishi (Melsec-Q), etc.

Ethernet Protocols: TCP/IP, RFC1006 (ISO on TCP), ISO (H1), EtherNet/IP, S5, S7, TCP/IP with PLC header, Modbus TCP, Melsec-Q

Ethernet Interfaces: 2 x independent interfaces TP (RJ45), 10/100 MBit/s

Serial Addressable Controllers: Siemens SIMATIC S5, devices with TTY interface

Serial Protocols: AS511, RK512, 3964R, Telnet / ASCII

Serial Interfaces: 1 x TTY (20mA)

Embedded OPC UA Server: Symbolic Mapping; Browsing, Read, Write, Subscribe; Self-Discovery Service; possible reconfiguration without device restart; possible multiple Client connections, optional read-only PLC connection

Supported Databases: MySQL, optional: Oracle, DB2, MS-SQL, SyBase

Other Protocols: Telnet, SMTP (email notification), DCOM Tunnel (OPCpipe)

Limitation: Maximum 5 PLC connections, 400 tables, 200 items per table, 10,000 items in total

Power Supply: 24 VDC, ca. 0.3 A

Ambient Conditions: Operating temperature: 0 °C ... 55 °C, storage temperature: -20 °C ... 70 °C

Dimensions (H x W x L): 131 mm x 47 mm x 111 mm

Weight: ca. 0.4 kg

Mounting: 35 mm DIN rail

Protection Class: IP20

Certifications: CE, FCC, VCCI

Visualization: atvise webMI visualization – functional level ‘Advanced’ (fully event-driven data exchange) Limited to up to 50 concurrently visualized items (optional upgrade to unlimited number of visualized items), 5 simultaneously accessing browsers

Configuration Software: Softing NetCon for device configuration, atvise builder for HMI editing

Scope of Delivery

Hardware: Application gateway echocollect e (OPC), SD card, connector for power supply

Software: Configuration software (NetCon, atvise builder)

Documentation: Quick Start leaflet, CD with Help

Order Numbers

GAL-YY-143101: echocollect e (connectors: 2 x Ethernet, 1 x TTY)
LRA-YY-143005: License: Embedded OPC UA Server
GAL-YY-143102: echocollect e, Packet FULL, includes echocollect e plus licenses for 15 PLC connections, database access, logging and OPC UA Server
LRA-YY-143002: License: Data logger for process data, storage on SD card
LRA-YY-143004: License: Unlimited number of visualized items
LRA-YY-143115: License: Maximal 15 PLC connections
LRL-DY-131701: OPCpipe Client for network spanning OPC Classic communication via Ethernet TCP/IP without DCOM
MEA-YY-144002: CD atvise elements, 4,000 high-quality bitmaps and vector graphics in SVG format

Additional Products and Services

700-5596-04: AC Adapter, 24 VDC, Euro, UK, or USA
OPC Servers are standardized software interfaces for data exchange between applications of different manufacturers. The Softing SNMP OPC Server offers uniform access to controllers supporting SNMP. This high-performance OPC Server is easy to configure and offers a wide variety of diagnostic capabilities.

**EVERYTHING AT A GLANCE**
The Softing SNMP OPC Server supports the scope of functions that you need. The Ethernet protocol that you use depends solely on which controllers and devices you want to contact with your application. You will receive a service which will communicate reliably with your controller systems. If you need an expansion later on - that's no problem: Protocols can just be added to the OPC Server.

**FEATURES**
> High-performance Protocol for Transmission of Large Amounts of Data Via OPC
> No Limit to the Number of Connected Controllers and Variables
> High Degree of Reliability for All OPC Clients with OPC Interface V1.x and V2.05
> Easy to Commission Via Symbolic Addressing (Alias Browsing)
> High-performance Remote Access Without DCOM via Integrated Tunnel Functionality
> Increased Availability Due to Continuous Line Monitoring and Extensive Communication Diagnostics
> 72-hour Version with Unlimited Functional Scope for Download from http://industrial.softing.com
> SNMP Access to Devices of Different Vendors via MIB Import and SNMP Browse

**APPLICATION AREA**
OPC Servers are made for heterogeneous networks in which controllers and devices of a wide variety of different manufacturers are used.

**CUSTOMER BENEFITS**
> Short Orientation Times Due to Same Handling for the Most Important Controllers
> Reduced Commissioning Due to Avoidance of DCOM Problems with OPCpipe
> Reduction of Downtime Due to Integrated Diagnostic Support
TECHNICAL DATA

Supported Operating Systems

SNMP OPC Server
OPC Server with SNMP Protocol Support, Including SNMP Browse and MIB Import
Communicates With Field Devices Via Ethernet TCP/IP; Supports SNMP V1 (Complete), V2 (Without Security)

PROTOCOLS SUPPORTED BY OPC SERVERS

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ADDITIONAL PRODUCTS AND SERVICES

ORDER NUMBERS

LRL-DY-131801 SNMP OPC Server, Single License
UAC-DD-0100 USB Hardware for Replacing the Software Key Required for Activating a Softing Product

ADDITIONAL PRODUCTS AND SERVICES

LRL-DY-131001 TCP/IP-H1 OPC Server, Single License
LRL-DY-131201 TCP/IP-S OPC Server, Single License
LRL-DY-131401 Modbus OPC Server, Single License
LRL-DY-131101 Siemens OPC Server, Single License
LRL-DY-131301 Rockwell OPC Server, Single License
LRL-DY-131601 Mitsubishi OPC Server, Single License
LRL-DY-131701 OPCpipe Client, Single License
110-1000-01 Industrial Ethernet - Troubleshooting in Automation, 3 Days
100-1030-01 OPC Plug & Play in Automation, 2-Day Seminar - The Basics, OPC Communication with S5/S7 Controllers and OPC Client

Softing Industrial Automation is a world leading provider of industrial communication products and technologies for manufacturing and process automation. Our products are tailored to the requirements of system integrators, device vendors, machine and equipment manufacturers or end users and are known for their ease-of-use and functional advantages.

Softing Industrial Automation GmbH
Richard-Reitzner-Allee 6
85540 Haar / Germany
Tel.: +49 89 4 56 56-340
Fax: +49 89 4 56 56-488
info.automation@softing.com
http://industrial.softing.com
OPC Servers are standardized software interfaces for data exchange between applications of different manufacturers. The Softing Multi-Protocol OPC Server offers uniform access to the leading controllers of the companies Siemens, Rockwell Automation, Schneider Electric or Mitsubishi. This high-performance OPC Server is easy to configure and offers a wide variety of diagnostic capabilities.

**EVERYTHING AT A GLANCE**

The Softing OPC Ethernet Server supports the scope of functions that you need. The Ethernet protocol that you use depends solely on which controllers and devices you want to contact with your application. You will receive a service which will communicate reliably with your controller systems - from the Modbus OPC Server to the all-in-one OPC Server. If you need an expansion later on - that’s no problem - protocols can just be added to the OPC Servers.

**FEATURES**

- High-performance Protocol for Transmission of Large Amounts of Data Via OPC
- No Limit to the Number of Connected Controllers and Variables
- High Degree of Reliability for All OPC Clients with OPC Interface 1.x and 2.05
- Easy to Commission Via Symbolic Addressing (Alias Browsing)
- Easy to Import the Step 7 Symbols Directly From the Step 7 Project to the OPC Server
- High-performance Remote Access Without DCOM via Integrated Tunnel Functionality
- Increased Availability Due to Continuous Line Monitoring and Extensive Communication Diagnostics

**CUSTOMER BENEFITS**

- Short Orientation Times Due to Same Handling for the Most Important Controllers
- Reduced Commissioning Due to Avoidance of DCOM Problems with OPCpipe
- Reduction of Downtime Due to Integrated Diagnostic Support

**APPLICATION AREA**

OPC Servers are made for heterogeneous networks in which controllers and devices of a wide variety of different manufacturers are used. In addition to the standard TCP/IP protocol which most Industrial Ethernet networks use, the TCP/IP/H1 “all-in-one” OPC Server can also be used with the Sinec H1 protocol and various serial protocols. This means that the Softing OPC Server gives you great investment protection when existing systems are integrated.
## TECHNICAL DATA

<table>
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<tr>
<td>OPC Server TCP/IPH1</td>
<td>All-in-one OPC Server With Maximum Protocol Scope; For Softing and Siemens CPs, Allen Bradley CLX, SLC and PLC 5 Controllers, Mitsubishi Melsec-Q Controllers, Various Modbus/TCP Interfaces - Communicates Via TCP/IP, RFC1006 and ISO (H1)</td>
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<td>OPC Server TCP/IP-S</td>
<td>For Siemens and Softing CPs, Allen-Bradley CLX, SLC and PLC-5 Controllers, Mitsubishi Melsec-Q Controllers, Various Modbus/TCP Interfaces - Communicates Via TCP/IP and RFC1006 (no H1)</td>
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<td>OPC Server TCP/IP-I</td>
<td>For Softing CPs, Various Modbus/TCP Interfaces - Communicates Via TCP/IP (No RFC1006, no H1)</td>
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<td>OPC Server Modbus</td>
<td>For Diverse Modbus/TCP Interfaces, Softing CPs (ONLY Modbus and Send/Receive Communication) - Communicates Via TCP/IP</td>
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<td>OPC Server TCP/IP-M</td>
<td>For Mitsubishi Melsec-Q Controllers - Communicates Via TCP/IP</td>
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<td>OPC Server Modbus</td>
<td>For Siemens S7-400, S7-300, S7-200, Protocols: MPI; PPI - OPC Communication Via MPI/PPI to Siemens S7 CPUs</td>
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## ORDER NUMBERS

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Description</th>
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<tr>
<td>100-3100-xx*</td>
<td>OPC Server TCP/IPH1, Single License, incl. OPCpipe</td>
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<td>100-3150-xx*</td>
<td>OPC Server TCP/IP-I, Single License, incl. OPCpipe</td>
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<td>100-3140-xx*</td>
<td>OPC Server Modbus, Single License, incl. OPCpipe</td>
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<td>100-3160-xx*</td>
<td>OPC Server TCP/IP-M, Single License, incl. OPCpipe</td>
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<td>100-3150-xx*</td>
<td>OPC Server MPI, Single License, incl. OPCpipe</td>
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</table>

* Please Use One of the Following Codes When Ordering: xx = 01 Release Via Software License xx = 20 Release Via USB Dongle xx = UPG Upgrade Software License xx = DGL Upgrade incl. USB Dongle

## ADDITIONAL PRODUCTS AND SERVICES

<table>
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<th>Order Number</th>
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<td>100-1700-20</td>
<td>OPCpipe Client incl. Dongle</td>
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<td>110-1000-01</td>
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<td>110-1700-01</td>
<td>Secure Remote Maintenance of Plants, 2-Day Workshop; VPN, Attacks and Security for the System Network</td>
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<td>100-1030-01</td>
<td>OPC Plug &amp; Play in Automation, 2-Day Seminar; the Basics, OPC Communication with S5/S7 Controllers and OPC Client Workshop</td>
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</tbody>
</table>

Softing Industrial Automation is a world leading provider of industrial communication products and technologies for manufacturing and process automation. Our products are tailored to the requirements of system integrators, device vendors, machine and equipment manufacturers or end users and are known for their ease-of-use and functional advantages.
EASY COMMUNICATION WITH SIEMENS CONTROLLERS
Using the S7/S5 OPC Server allows any OPC compliant client application to read and write all input and output data, data blocks, markers, timers, and counters in Siemens controllers. Here up to 256 controllers can be accessed simultaneously. The variables are consistently addressed using STEP7 or STEP5 syntax. No changes to the control program are required for communicating with the S7/S5 OPC Server.

FLEXIBLE, HIGH PERFORMANCE SOLUTION
Access to the controller is available via Ethernet, PROFIBUS, USB or serial communication. For Ethernet communication CPs from various manufacturers, Softing Remote Interfaces and Softing NETLink adapters are supported. The S7/S5 OPC Server employs a unique and proprietary algorithm to re-combine the individual PLC read and write requests resulting in an optimized data throughput between the OPC Server and the controllers. This feature alone renders Softing’s OPC Server the best-in-class product.

CONFIGURATION FROM STEP7 OR EXCEL, DIAGNOSTICS VIA WEB BROWSER
The OPC namespace is extremely quick to configure by importing symbolic names from STEP7 projects or Excel files. For instance, existing configurations can be exported from software applications like SCADA or process control systems to Excel, and are then conveniently uploaded to the S7/S5 OPC Server. The OPC Server provides a web server for diagnostics and process data visualization. PLC states and process data can be displayed by simply using a standard web browser. For secure, high-performance remote access without DCOM, the S7/S5 OPC Server includes Softing’s OPC Tunnel. This eliminates the need to configure DCOM settings and saves the user considerable cost and time.

The S7/S5 OPC Server provides quick and convenient access to process and diagnostic data in up to 256 Siemens S5, S7-200 / 300 / 400 / 1200, WinAC, as well as Siemens compatible controllers.

CUSTOMER BENEFITS
> Fast and Easy Data Access to Up to 256 Controllers
> Flexible Use
> Fast and Easy Configuration
### TECHNICAL DATA

**Supported Communication Types**
- Access to Process Data of S7-300 and S7-400 Controllers Via Ethernet or PROFIBUS
- Access to Process Data of S7-200 and S7-1200 Controllers Via Ethernet
- Access to Process Data of S5 Controllers Via Ethernet

**Supported OPC Specifications**
- OPC Data Access V1.0a, V2.05, V3.0, OPC XML-DA

**Supported OPC Interfaces**
- All Mandatory Interfaces Defined in the OPC Data Access and OPC XML-DA Specifications
- Dynamic Namespace with STEP7 and STEP5 Semantics for OPC Item Names
- Static Namespace Through Import of Symbolic Names from STEP7 Projects or Excel Files (CSV Format)

**Supported OPC Data Types**
- VARIANT Data Types UI1, IL, UI2, I2, UI4, I4, R4, RB, BOOL and Arrays (VT_ARRAY) of These Data Types, BSTR

**Supported S7 Data Types**
- BOOL, BYTE, CHAR, WORD, INT, BCD, STIME, DATE, DWORD, DINT, REAL, TIME, TIME_OF_DAY, DATE_AND_TIME and Arrays of These Data Types, STRING

**Supported S5 Data Types**
- KG, KC

**Implementation Types**
- Application (OutProc Server), Windows Service (Service)

**OPC Certification**
- Test With Several OPC Clients at the OPC Foundation’s Interoperability Workshop
- Test Using the OPC Foundation’s Compliance Test Tool

**Hardware Requirements**
- Windows Enabled PC
  - For Communication Via PROFIBUS:
    - Softing PROFIBUS PC Interfaces and Softing PROFIBUS Remote Interfaces
    - Siemens CP 5511, CP 5611, CP 5613 (Requires Hardware Driver From Card Manufacturer)
  - For Communication Via Ethernet:
    - Standard Ethernet Card for PC, Siemens CP 343-1 for S7-300, CP 443-1 for S7-400
  - For Communication Via PLC Adapter:
    - Softing NETLink PRO Ethernet Adapter or NETLink PRO USB Adapter for S7 Interface
    - Softing S5-PCLink Ethernet Adapter for S5 interface (AS511)

**Supported Operating Systems**
  (As of February 2015)

**Demo Version**
- Full S7/S5 OPC Server Functionality, Time-Limited to 90 Minutes

### SCOPE OF DELIVERY

**S7/S5 OPC Server**
- Software on CD-ROM

**Documentation**
- Online Help in English and German

### ORDER NUMBERS

**DCF-DY-4100**
- License for Using the S7/S5 OPC Server on One Computer, Activation Via Software Key

**DCF-DY-4101**
- License for Upgrade to S7/S5 OPC Server on One Computer, Activation Via Software Key

**UAC-DD-0100**
- USB Hardware Key for S7/S5 OPC Server, Replacement of Software Key

### ADDITIONAL PRODUCTS AND SERVICES

**GPL-CS-191000**
- echoLink S7-compact

**S5-PCLink**
- Ethernet Adapter for S5 interface

**100-1030-01**
- Training “OPC Server und Client Within Applications”

**120-1010-01**
- Engineering Service

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Softing Industrial Automation GmbH
Richard-Reitzner-Allee 6
85540 Haar / Germany
Tel.: +49 89 4 56 56-340
Fax: +49 89 4 56 56-488
info.automation@softing.com
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> Reduced Commissioning Due to Avoidance of DCOM Problems with OPCpipe
> Reduction of Downtime Due to Integrated Diagnostic Support
TECHNICAL DATA


Siemens OPC Server: OPC Server with Siemens S7/S5 Protocol Support
   (Included in Former INAT Multi-Protocol OPC Server)
   For Siemens Controllers (S5, S7 200/300/400/1200)
   Communicates Via Ethernet TCP/IP and RFC 1006; Includes OPCpipe, Send/Receive, and NETLink Protocol

PROTOCOLS SUPPORTED BY OPC SERVERS

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<th>TCPIP-S OPC Server</th>
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ORDER NUMBERS

- LRL-DY-131101: Siemens OPC Server, Single License
- UAC-DD-0100: USB Hardware for Replacing the Software Key Required for Activating a Softing Product

ADDITIONAL PRODUCTS AND SERVICES

- LRL-DY-131001: TCPIP-H1 OPC Server, Single License
- LRL-DY-131201: TCPIP-S OPC Server, Single License
- LRL-DY-131401: Modbus OPC Server, Single License
- LRL-DY-131301: Rockwell OPC Server, Single License
- LRL-DY-131601: Mitsubishi OPC Server, Single License
- LRL-DY-131801: SNMP OPC Server, Single License
- LRL-DY-131701: OPCpipe Client, Single License
- GPL-CS-191000: echolink S7-compact
- 110-1000-01: Industrial Ethernet - Troubleshooting in Automation, 3 Days
- 100-1030-01: OPC Plug & Play in Automation, 2-Day Seminar - The Basics, OPC Communication with S5/S7 Controllers and OPC Client

Softing Industrial Automation is a world leading provider of industrial communication products and technologies for manufacturing and process automation. Our products are tailored to the requirements of system integrators, device vendors, machine and equipment manufacturers or end users and are known for their ease-of-use and functional advantages.

Softing Industrial Automation GmbH
Richard-Reitzner-Allee 6
85540 Haar / Germany
Tel.: +49 89 4 56 56-340
Fax: +49 89 4 56 56-488
info.automation@softing.com
http://industrial.softing.com
OPC Servers are standardized software interfaces for data exchange between applications of different manufacturers. The Softing TCPIP-H1 OPC Server offers uniform access to the leading controllers of the companies Siemens, Rockwell Automation, Schneider Electric or Mitsubishi. This high-performance OPC Server is easy to configure and offers a wide variety of diagnostic capabilities.

EVERYTHING AT A GLANCE
The Softing TCPIP-H1 OPC Server supports the scope of functions that you need. The Ethernet protocol that you use depends solely on which controllers and devices you want to contact with your application. You will receive a server which will communicate reliably with your controller systems.

FEATURES
> High-performance Protocol for Transmission of Large Amounts of Data Via OPC
> No Limit to the Number of Connected Controllers and Variables
> High Degree of Reliability for All OPC Clients with OPC Interface V1.x and V2.05
> Easy to Commission Via Symbolic Addressing (Alias Browsing)
> Easy to Import the Step 7 Symbols Directly From the Step 7 Project to the OPC Server
> High-performance Remote Access Without DCOM via Integrated Tunnel Functionality
> Increased Availability Due to Continuous Line Monitoring and Extensive Communication Diagnostics
> 72-hour Version with Unlimited Functional Scope for Download from http://industrial.softing.com
> SNMP Access to Devices of Different Vendors via MIB Import and SNMP Browse

APPLICATION AREA
OPC Servers are made for heterogeneous networks in which controllers and devices of a wide variety of different manufacturers are used. In addition to the standard TCP/IP protocol which most Industrial Ethernet networks use, the “all-in-one” TCPIP-H1 OPC Server can also be used with the Sinec H1 protocol and various serial protocols. This means that the Softing OPC Server gives you great investment protection when existing systems are integrated.

CUSTOMER BENEFITS
> Short Orientation Times Due to Same Handling for the Most Important Controllers
> Reduced Commissioning Due to Avoidance of DCOM Problems with OPCpipe
> Reduction of Downtime Due to Integrated Diagnostic Support
**TECHNICAL DATA**

Supported Operating Systems  

TCPIP-H1 OPC Server  
All-in-one OPC Server With Maximum Protocol Scope Via TCP/IP and H1  
(Included in Former INAT Multi-Protocol OPC Server)  
For Softing and Siemens CPs, Allen Bradley CLX, SLC and PLC 5 Controllers, Mitsubishi Melsec-Q Controllers, Various Modbus/TCP Interfaces, SNMP Devices  
Communicates Via Ethernet TCP/IP, RFC1006 and H1 (ISO)

**PROTOCOLS SUPPORTED BY OPC SERVERS**

<table>
<thead>
<tr>
<th>Transport Protocols</th>
<th>TCPIP-H1 OPC Server</th>
<th>TCPIP-S OPC Server</th>
<th>Modbus OPC Server</th>
<th>Siemens OPC Server</th>
<th>Rockwell OPC Server</th>
<th>Mitsubishi OPC Server</th>
<th>SNMPOPC Server</th>
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</table>

**ORDER NUMBERS**

| LRL-DY-131001 | TCP/IP-H1 OPC Server, Single License |  |
| JAC-0100 | USB Hardware for Replacing the Software Key Required for Activating a Softing Product |

**ADDITIONAL PRODUCTS AND SERVICES**

| LRL-DY-131701 | OPCpipe Client, Single License |
| GPL-CS-191000 | echolink S7-compact |
| 110-1000-01 | Industrial Ethernet – Troubleshooting in Automation, 3 Days |
| 100-1030-01 | OPC Plug & Play in Automation, 2-Day Seminar - The Basics, OPC Communication with S5/S7 Controllers and OPC Client |

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OPC Servers are standardized software interfaces for data exchange between applications of different manufacturers. The Softing TCPIP-S OPC Server offers uniform access to the leading controllers of the companies Siemens, Rockwell Automation, Schneider Electric or Mitsubishi. This high-performance OPC Server is easy to configure and offers a wide variety of diagnostic capabilities.

**EVERYTHING AT A GLANCE**
The Softing TCPIP-S OPC Server supports the scope of functions that you need. The Ethernet protocol that you use depends solely on which controllers and devices you want to contact with your application. You will receive a service which will communicate reliably with your controller systems.

**FEATURES**
- High-performance Protocol for Transmission of Large Amounts of Data Via OPC
- No Limit to the Number of Connected Controllers and Variables
- High Degree of Reliability for All OPC Clients with OPC Interface V1.x and V2.0S
- Easy to Commission Via Symbolic Addressing (Alias Browsing)
- Easy to Import the Step 7 Symbols Directly From the Step 7 Project to the OPC Server
- High-performance Remote Access Without DCOM via Integrated Tunnel Functionality
- Increased Availability Due to Continuous Line Monitoring and Extensive Communication Diagnostics
- SNMP Access to Devices of Different Vendors via MIB Import and SNMP Browse

**CUSTOMER BENEFITS**
- Short Orientation Times Due to Same Handling for the Most Important Controllers
- Reduced Commissioning Due to Avoidance of DCOM Problems with OPCpipe
- Reduction of Downtime Due to Integrated Diagnostic Support

**APPLICATION AREA**
OPC Servers are made for heterogeneous networks in which controllers and devices of a wide variety of different manufacturers are used.
TECHNICAL DATA

Supported Operating Systems

TCP/IP-S OPC Server
All-in-one OPC Server With Maximum Protocol Scope
(Included in Former INAT Multi-Protocol OPC Server)
For Siemens and Softing CPs, Allen-Bradley CLX, SLC and PLC-5 Controllers, Mitsubishi Melsec-Q Controllers,
Various Modbus/TCP Interfaces, SNMP Devices
Communicates Via Ethernet TCP/IP and RFC1006 (no H1)

PROTOCOLS SUPPORTED BY OPC SERVERS

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ORDER NUMBERS

LRL-DY-131201         TCPIP-S OPC Server, Single License
UAC-DD-0100            USB Hardware for Replacing the Software Key Required for Activating a Softing Product

ADDITIONAL PRODUCTS AND SERVICES

LRL-DY-131001         TCPIP-H1 OPC Server, Single License
LRL-DY-131701         OPCpipe Client, Single License
GPL-CS-191000          echolink S7-compact
110-1000-01            Industrial Ethernet – Troubleshooting in Automation, 3 Days
100-1030-01            OPC Plug & Play in Automation, 2-Day Seminar - The Basics, OPC Communication with S5/S7 Controllers and OPC Client

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http://industrial.softing.com
dataFEED OPC Suite

The All-In-One Solution for OPC Communication

The dataFEED OPC Suite offers a full package of components for OPC communication within a single product. It enables access to the controllers of leading manufacturers. Additional functionality eliminates DCOM problems and improves the communication between the PLCs, OPC Servers and OPC Clients, independent of the use of OPC Classic or OPC Unified Architecture (UA).

**Easy and Independent Access to Controllers**

- Read and write access to data in PLCs of leading manufacturers
- No changes to control program required
- Easy integration of legacy and new controllers into "Industrie 4.0" solutions
- Integration of non-OPC UA-ready components like Siemens S5 controllers into OPC UA applications
- Cost savings through continued use of existing OPC Classic components

**No Need for DCOM Configuration**

- Easy industrial communication by avoiding DCOM and its complex security settings
- Time-saving configuration of OPC Classic communication across networks
- Minimum requirements on configuration of PCs used in network
- Compliance with corporate computer and network security policies, e.g. firewall settings

**Easy Configuration**

- State-of-the-art, intuitive graphical user interface for rapid configuration of OPC communication
- Use of intelligent, practice-oriented defaults, setup wizards and drag-and-drop support
- Time savings through effective and efficient configuration of distributed automation systems comprising a large number of OPC Servers

* "Industrie 4.0" is a German government-driven initiative for implementing an industrial "Internet of Things"
**Technical Data**

**Supported dataFEED Features**
OPC Server, OPC Tunnel, Database Access, File Access, Data Exchange (between OPC Servers or between PLCs), Filter, Optimizer, Concentrator, Bridge, Local Items (between OPC Clients)

**Supported Controllers**
Siemens S5, S7 (200, 300, 400, 1200, 1500) and Siemens-compatible controllers like VIPA controllers
Rockwell SLC-500, PLC-5, MicroLogix, ControlLogix and CompactLogix with Firmware Version 20.x and older, Version 21.x in preparation
Mitsubishi Melsec-Q Series with Ethernet interface card (Melsec-Q Series with on-board Ethernet interface in preparation)
B&R controllers with Ethernet interface
Modbus TCP-compatible controllers (Wago, Beckhoff, Phoenix, Schneider, etc.)

**Accessible Controller Data**
Inputs, outputs, data blocks, markers, timers, counters

**Supported OPC Specifications**
OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DX V1.01, OPC Alarms & Events V1.10, OPC Unified Architecture V1.01

**Supported OPC Data Types**
VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types

**Supported Databases**
ODBC enabled databases, for example, Oracle, MySQL, Microsoft SQL Server, IBM DB2, other ODBC-enabled databases upon inquiry

**OPC Certification**
Test using OPC Foundation’s Compliance Test Tool

**Operation Mode**
Application (OutProc Server), Windows Service

**Logging, Diagnostics**
Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access, database access, configurable via integrated web server diagnostic interface

**Supported Operating Systems**

**Demo Version**
Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours

**Scope of Delivery**

dataFEED OPC Suite: Software on DVD
Documentation: Online Help in English and German

**Order Numbers**

LRL-DY-134501: dataFEED OPC Suite, Version 4.01 and higher, including all supported PLC protocols, OPC UA support, access of any number of OPC Tunnel Clients, access to up to 50 dataFEED OPC Tunnel Servers as well as up to 50 OPC Servers plus additional functionality like Database Access, File Access, Data Exchange, Optimizer, Concentrator and Bridge

HUA-DD-130001: USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

**Additional Products and Services**

100-1030-01: Training "OPC Server and Client in Practice"

GPL-CS-191000: echolink S7-compact

WRL-DD-031101: OPC UA .NET Client Development Toolkit, Single Seat Developer License, Binary Format

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Softing Industrial Automation GmbH
Richard-Reitzner-Allee 6
85540 Haar / Germany
Tel.: +49 89 456 56-340
Fax: +49 89 456 56-488
info.automation@softing.com
http://industrial.softing.com

Softing North America Inc.
US Headquarter
7209 Chapman Highway
Knoxville, TN 37920 / USA
Tel.: +1 865 251 52 52
Fax: +1 865 579 47 40
info.usa@softing.com
http://softing.us

Softing Italia Srl
Via Padre Massimiliano Kolbe, 6
20090 Cesano Boscone (MI) / Italy
Tel.: +39 02 450 51 71
Fax: +39 02 450 41 41
info@softingitalia.it
http://softingitalia.it

Buxbaum Automation GmbH
Thomas-Alva-Edison-Straße 1
7000 Eisenstadt / Austria
Tel.: +43 2682 704 560
Fax: +43 2682 205 77 00-5610
office@myautomation.at
http://myautomation.at

Your local Softing Contact:
The dataFEED OPC Tunnel is a component of the dataFEED OPC Suite and eliminates DCOM configuration problems that can arise in OPC Classic communication between different computer platforms. At the same time, it ensures a robust and reliable high-performance data exchange also across network boundaries.

**No Need for DCOM Configuration**
- Easy industrial communication by avoiding DCOM and its complex security settings on the OPC Server and OPC Client side
- Time-saving configuration of OPC Classic communication across networks

**Compliance with Computer and Network Security Policies**
- Secure communication across firewalls
- Minimum requirements on configuration of PCs used in network
- Compliance with corporate security policies for firewalls

**Data Buffering on Detection of Broken Connection**
- Protection against data loss by automatic local data buffering on detection of broken connection to OPC Client
- Second-by-second monitoring of OPC Classic communication
- Automatic re-establishment of OPC connection and transmission of locally buffered OPC data
- Improved OPC communication behavior
Technical Changes reserved © Softing Industrial Automation GmbH, dataFEED_OPC_Tunnel_D_EN_1503_102, March 2015

Supported dataFEED OPC Suite Features
OPC Tunnel, Filter, Optimizer, Concentrator, Bridge

Supported OPC Specifications
OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Alarms & Events V1.10, optional: OPC Unified Architecture V1.01

OPC Roles
OPC Client (on OPC Server side), OPC Server (on OPC Client side)

Supported OPC Data Types
VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types

OPC Certification
Test using OPC Foundation’s Compliance Test Tool

Operation Mode
Application (OutProc Server), Windows Service

Logging, Diagnostics
Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), configurable via integrated web server diagnostic interface

Supported Operating Systems
Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry

Licensing
Runtime license per computer, add-on license for access to additional dataFEED OPC Tunnel instances

Demo Version
Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours

Scope of Delivery
dataFEED OPC Tunnel Software on DVD
Documentation Online Help in English and German

Order Numbers
LRL-DY-134001 dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher, for access of any number of OPC Tunnel Clients and to 1 OPC Tunnel Server, includes dataFEED OPC Organizer Classic functionality
LRL-DY-134401 dataFEED OPC Server Extension component of dataFEED OPC Suite, Version V4.01 and higher, for simultaneous access to a maximum of 50 OPC Servers or 50 dataFEED OPC Tunnel Servers
HUA-DD-130001 USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services
LRL-DY-134501 dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134201 dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132101 dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132301 dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132401 dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132601 dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-132901 dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
LRL-DY-134301 dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
100-1030-01 Training “OPC Server and Client in Practice”
dataFEED OPC Server Siemens

Easy Data Access Combined With High Performance for Siemens Controllers

The dataFEED OPC Server Siemens is a component of the dataFEED OPC Suite and combines the functionality for quick and convenient access to process and diagnostic data within Siemens and Siemens-compatible controllers.

**Easy Access to Siemens Controllers**

> Read and write access to data in Siemens and Siemens-compatible controllers
> Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
> No changes to control program required

**Graphical User Interface Including STEP7 Project Import**

> Easy-to-use graphical configuration interface
> Intelligent wizards for configuration setup in just 3 clicks
> Configuration of OPC Namespace e.g. by importing symbolic names directly from STEP7 projects
> CSV import of existing configurations from software applications like SCADA or process control systems

* "Industrie 4.0" is a German government-driven initiative for implementing an industrial "Internet of Things"

**Support of OPC Unified Architecture (UA)**

> Optional expansion through dataFEED OPC Organizer UA
> Integration of non-OPC UA-ready components like Siemens S5 controllers into OPC UA applications
> Easy integration of legacy and new controllers into "Industrie 4.0" solutions
> Cost savings through continued use of OPC Classic components
> Support of all security mechanisms defined by OPC UA standard
## Technical Data

**Supported dataFEED OPC Suite Features**
OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA Server

**Supported Controllers**
Siemens S5, S7 (200,300,400,1200,1500) and Siemens-compatible controllers like VIPA controllers

**Accessible Controller Data**
Inputs, outputs, data blocks, markers, timers, counters

**Supported Siemens S7 Data Types**
BOOL, BIT, BYTE, CHAR, WORD, INT, BCD, DATE, DWORD, DINT, REAL, TIME, TIME_OF_DAY, DATE_AND_TIME and arrays of these data types, STRING, S7STRING

**Supported Siemens S5 Data Types**
BOOL, BYTE, LEFT BYTE, RIGHT BYTE, CHAR, WORD, S7TIME, DATE, DWORD, TIME, TIME_OF_DAY, DATE_AND_TIME and arrays of these data types, STRING

**Supported OPC Specifications**
OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Unified Architecture V1.01 (optional)

**Supported OPC Data Types**
VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types

**OPC Certification**
Test using OPC Foundation's Compliance Test Tool

**Operation Mode**
Application (OutProc Server), Windows Service

**Logging, Diagnostics**
Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), configurable via integrated web server diagnostic interface

**Supported Operating Systems**
Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry

**Licensing**
Runtime license per computer, add-on license for access to additional dataFEED OPC Server Siemens instances

**Demo Version**
Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours

## Scope of Delivery

**dataFEED OPC Server Siemens** Software on DVD

**Documentation**
Online Help in English and German

## Order Numbers

**LRL-DY-132101**
dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher, for communication with Siemens and Siemens-compatible PLCs, includes dataFEED OPC Organizer Classic functionality

**LRL-DY-134201**
dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, enabling communication with OPC UA Clients, includes Bridge, Concentrator and Optimizer functionality

**HUA-DD-130001**
USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

## Additional Products and Services

**LRL-DY-134501**
dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-134001**
dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-132301**
dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-132401**
dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-132601**
dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-132901**
dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-134301**
dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-134401**
dataFEED OPC Server Extension component of dataFEED OPC Suite, Version V4.01 and higher

**100-1030-01**
Training “OPC Server and Client in Practice”

**GPL-CS-191000**
echoLink S7-compact
dataFEED OPC Server Rockwell

Easy Data Access Combined With High Performance for Rockwell Controllers

The dataFEED OPC Server Rockwell is a component of the dataFEED OPC Suite and combines the functionality for quick and convenient access to process and diagnostic data within Rockwell controllers.

**Easy Access to Rockwell Controllers**

- Read and write access to data in Rockwell controllers
- Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
- No changes to control program required

**Graphical User Interface Including Namespace Browsing**

- Easy-to-use graphical configuration interface
- Intelligent wizards for configuration setup in just 3 clicks
- Configuration of OPC Namespace by browsing the namespace of Rockwell controllers
- CSV import of existing configurations from software applications like SCADA or process control systems

**Easy Setup of Database Connection**

- Optional expansion through dataFEED OPC Organizer UA
- Integration of non-OPC UA-ready components like Rockwell PLC-5 controllers into OPC UA applications
- Easy integration of legacy and new controllers into "Industrie 4.0" solutions
- Cost savings through continued use of OPC Classic components
- Support of all security mechanisms defined by OPC UA standard

* "Industrie 4.0" is a German government-driven initiative for implementing an industrial "Internet of Things"
Technical Data

**Supported dataFEED OPC Suite Features**
OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA Server

**Supported Controllers**
Rockwell SLC-500, PLC-5, MicroLogix, ControlLogix and CompactLogix with firmware Version 20.x and older, Version 21.x in preparation

**Accessible Controller Data**
Inputs, outputs, data blocks, markers, timers, counters

**Supported PLCs/SLC Data Types**
BOOL, BYTE, CHAR, WORD, DWORD, REAL, SLC-STRING, DATE, REAL, TIME and arrays of these data types

**Supported CLX Data Types**
BOOL, SINT, INT, DINT, REAL, STRING, DATE, REAL, TIME and arrays of these data types

**Supported OPC Specifications**
OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Unified Architecture V1.01 (optional)

**Supported OPC Data Types**
VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R, D, DATE, BSTR, BOOL and arrays (VT_Array) of these data types

**OPC Certification**
Test using OPC Foundation's Compliance Test Tool

**Operation Mode**
Application (OutProc Server), Windows Service

**Logging, Diagnostics**
Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), configurable via integrated web server diagnostic interface

**Supported Operating Systems**
Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry

**Licensing**
Runtime license per computer, add-on license for access to additional dataFEED OPC Server Rockwell instances

**Demo Version**
Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours

Scope of Delivery

**dataFEED OPC Server Rockwell**
Software on DVD

**Documentation**
Online Help in English and German

Order Numbers

LRL-DY-132301
dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher, for communication with Rockwell PLCs, includes dataFEED OPC Organizer Classic functionality

LRL-DY-134201
dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, enabling communication with OPC UA Clients, includes Bridge, Concentrator and Optimizer functionality

HUA-DD-130001
USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

LRL-DY-134501
dataFEED OPC Suite, Version 4.01 and higher

LRL-DY-134001
dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher

LRL-DY-132101
dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher

LRL-DY-132401
dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher

LRL-DY-132601
dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher

LRL-DY-132901
dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher

LRL-DY-134301
dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher

LRL-DY-134401
dataFEED OPC Server Extension component of dataFEED OPC Suite, Version V4.01 and higher

100-1030-01
Training "OPC Server and Client in Practice"
The dataFEED OPC Server B&R is a component of the dataFEED OPC Suite and combines the functionality for quick and convenient access to process and diagnostic data within B&R controllers.

**Easy Access to B&R Controllers**
- Read and write access to data in B&R controllers
- Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
- No changes to control program required

**Graphical User Interface with Configuration Wizards**
- Easy-to-use graphical configuration interface
- Intelligent wizards for configuration setup in just 3 clicks
- Configuration of OPC Namespace by browsing the namespace of B&R controllers
- CSV import of existing configurations from software applications like SCADA or process control systems

**Support of OPC Unified Architecture (UA)**
- Optional expansion through dataFEED OPC Organizer UA
- Integration of non-OPC UA-ready components like B&R X20CP1483 controllers into OPC UA applications
- Easy integration of legacy and new controllers into "Industrie 4.0" solutions
- Cost savings through continued use of OPC Classic components
- Support of all security mechanisms defined by OPC UA standard

* "Industrie 4.0" is a German government-driven initiative for implementing an industrial "Internet of Things"
Technical Data

**Supported dataFEED OPC Suite Features**
OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA Server

**Supported Controllers**
B&R controllers with Ethernet interface

**Accessible Controller Data**
Inputs, outputs, data blocks, markers, timers, counters

**Supported Data Types**
BOOL, BYTE, CHAR, WORD, DWORD, INT, DINT, STRING, DATE, REAL, TIME and arrays of these data types

**Supported OPC Specifications**
OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Unified Architecture V1.01 (optional)

**Supported OPC Data Types**
VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types

**OPC Certification**
Test using OPC Foundation’s Compliance Test Tool

**Operation Mode**
Application (OutProc Server), Windows Service

**Logging, Diagnostics**
Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), configurable via integrated web server diagnostic interface

**Supported Operating Systems**
Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry

**Licensing**
Runtime license per computer, add-on license for access to additional dataFEED OPC Server B&R instances

**Demo Version**
Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours

Scope of Delivery

dataFEED OPC Server B&R
Software on DVD

Documentation
Online Help in English and German

Order Numbers

**LRL-DY-132901**
dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher, for communication with B&R PLCs, includes dataFEED OPC Organizer Classic functionality

**LRL-DY-134201**
dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, enabling communication with OPC UA Clients, includes Bridge, Concentrator and Optimizer functionality

**HUA-DD-130001**
USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services

**LRL-DY-134501**
dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-134001**
dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-132101**
dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-132301**
dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-132401**
dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-132601**
dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-134301**
dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher

**LRL-DY-134401**
dataFEED OPC Server Extension component of dataFEED OPC Suite, Version V4.01 and higher

**100-1030-01**
Training “OPC Server and Client in Practice”
dataFEED OPC Server Modbus

Easy Data Access Combined With High Performance for Modbus-compatible Controllers

The dataFEED OPC Server Modbus is a component of the dataFEED OPC Suite and combines the functionality for quick and convenient access to process and diagnostic data within Modbus-compatible controllers.

**Easy Access to Modbus Controllers**
- Read and write access to data in Modbus controllers
- Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
- No changes to control program required

**Graphical User Interface with Configuration Wizards**
- Easy-to-use graphical configuration interface
- Intelligent wizards for configuration setup in just 3 clicks
- Configuration of OPC Namespace e.g. by importing symbolic names from CoDeSys (Wago) project
- CSV import of existing configurations from software applications like SCADA or process control systems

**Support of OPC Unified Architecture (UA)**
- Optional expansion through dataFEED OPC Organizer UA
- Integration of non-OPC UA-ready components into OPC UA applications
- Easy integration of legacy and new controllers into “Industrie 4.0” solutions
- Cost savings through continued use of OPC Classic components
- Support of all security mechanisms defined by OPC UA standard

* "Industrie 4.0" is a German government-driven initiative for implementing an industrial "Internet of Things"
## Technical Data

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<td>Supported Modbus Data Types</td>
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<td>OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Unified Architecture V1.01 (optional)</td>
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<tr>
<td>Supported OPC Data Types</td>
<td>VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types</td>
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<tr>
<td>Demo Version</td>
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## Scope of Delivery

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## Order Numbers

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<td>dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher, for communication with Modbus-compatible PLCs, includes dataFEED OPC Organizer Classic functionality</td>
</tr>
<tr>
<td>LRL-DY-134201</td>
<td>dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, enabling communication with OPC UA Clients, includes Bridge, Concentrator and Optimizer functionality</td>
</tr>
<tr>
<td>HUA-DD-130001</td>
<td>USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key</td>
</tr>
<tr>
<td>LRL-DY-134501</td>
<td>dataFEED OPC Suite, Version 4.01 and higher</td>
</tr>
<tr>
<td>LRL-DY-134001</td>
<td>dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher</td>
</tr>
<tr>
<td>LRL-DY-132101</td>
<td>dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher</td>
</tr>
<tr>
<td>LRL-DY-132301</td>
<td>dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher</td>
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<tr>
<td>LRL-DY-132601</td>
<td>dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher</td>
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<tr>
<td>LRL-DY-132901</td>
<td>dataFEED OPC Server B&amp;R component of dataFEED OPC Suite, Version 4.01 and higher</td>
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<td>LRL-DY-134301</td>
<td>dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher</td>
</tr>
<tr>
<td>LRL-DY-134401</td>
<td>dataFEED OPC Server Extension component of dataFEED OPC Suite, Version V4.01 and higher</td>
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<td>100-1030-01</td>
<td>Training &quot;OPC Server and Client in Practice&quot;</td>
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## Additional Products and Services

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<tr>
<th>Additional Products and Services</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Softing Industrial Automation GmbH</td>
<td>Richard-Reitzner-Allee 6 65540 Haar / Germany Tel.: +49 89 456 56-340 Fax: +49 89 456 56-488 <a href="mailto:info.automation@softing.com">info.automation@softing.com</a> <a href="http://industrial.softing.com">http://industrial.softing.com</a></td>
</tr>
<tr>
<td>Softing North America Inc. US Headquarters 7209 Chapman Highway Knoxville, TN 37920 / USA Tel.: +1 865 251 52 52 Fax: +1 865 579 47 40 <a href="mailto:info.usa@softing.com">info.usa@softing.com</a> <a href="http://softing.us">http://softing.us</a></td>
<td></td>
</tr>
<tr>
<td>Softing Italia Srl</td>
<td>Via Padre Massimiliano Kolbe, 6 20090 Cesano Boscone (MI) / Italy Tel.: +39 02 450 51 71 Fax: +39 02 450 41 41 <a href="mailto:info@softingitalia.it">info@softingitalia.it</a> <a href="http://softingitalia.it">http://softingitalia.it</a></td>
</tr>
<tr>
<td>Buxbaum Automation GmbH</td>
<td>Thomas-Alva-Edison-Straße 1 7000 Eisenstadt / Austria Tel.: +43 2682 704 560 Fax: +43 2682 205 77 00-5610 <a href="mailto:office@myautomation.at">office@myautomation.at</a> <a href="http://myautomation.at">http://myautomation.at</a></td>
</tr>
<tr>
<td>Softing North America Inc. US Sales Office 29 Water Street, Suite 301 Newburyport, MA 01950 / USA Tel.: +1 978 499 96 50 Fax: +1 978 499 96 54 <a href="mailto:info.usa@softing.com">info.usa@softing.com</a> <a href="http://softing.us">http://softing.us</a></td>
<td></td>
</tr>
<tr>
<td>Softing Industrial Automation GmbH</td>
<td>Äußere Sulzbacher Straße 159-161 90491 Nuremberg / Germany Tel.: +49 911 544 27-0 Fax: +49 911 544 27-27 <a href="mailto:info.automation@softing.com">info.automation@softing.com</a> <a href="http://industrial.softing.com">http://industrial.softing.com</a></td>
</tr>
<tr>
<td>Softing Industrial Automation GmbH</td>
<td>100-1030-01 Training &quot;OPC Server and Client in Practice&quot;</td>
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</table>
dataFEED OPC Server Mitsubishi
Easy Data Access Combined With High Performance for Mitsubishi Controllers

The dataFEED OPC Server Mitsubishi is a component of the dataFEED OPC Suite and combines the functionality for quick and convenient access to process and diagnostic data within Mitsubishi Melsec-Q Series controllers.

**Easy Access to Mitsubishi Controllers**
- Read and write access to data in Mitsubishi Melsec-Q Series controllers
- Quick and easy integration into OPC Client applications, such as SCADA or ERP systems
- No changes to control program required

**Graphical User Interface with Configuration Wizards**
- Easy-to-use graphical configuration interface
- Intelligent wizards for configuration setup in just 3 clicks
- CSV import of existing configurations from software applications like SCADA or process control systems

**Support of OPC Unified Architecture (UA)**
- Optional expansion through dataFEED OPC Organizer UA
- Integration of non-OPC UA-ready components like Mitsubishi Melsec-Q Series controllers into OPC UA applications
- Easy integration of legacy and new controllers into “Industrie 4.0” solutions
- Cost savings through continued use of OPC Classic components
- Support of all security mechanisms defined by OPC UA standard

* “Industrie 4.0” is a German government-driven initiative for implementing an industrial “Internet of Things”
### Technical Data

**Supported dataFEED OPC Suite Features**
OPC Server, Filter, Optimizer, Concentrator, Bridge, optional OPC UA Server

**Supported Controllers**
Mitsubishi Melsec-Q Series with Ethernet interface card
(Melsec-Q Series with on-board Ethernet interface in preparation)

**Accessible Controller Data**
Inputs, outputs, data blocks, markers, timers, counters

**Supported Melsec-Q Data Types**
BOOL, BIT, BYTE, CHAR, WORD, DWORD, INT, DINT, REAL, STRING, DATE, TIME, and arrays of these data types

**Supported OPC Specifications**
OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Unified Architecture V1.01 (optional)

**Supported OPC Data Types**
VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types

**OPC Certification**
Test using OPC Foundation’s Compliance Test Tool

**Operation Mode**
Application (OutProc Server), Windows Service

**Logging, Diagnostics**
Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), configurable via integrated web server diagnostic interface

**Supported Operating Systems**
Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry

**Licensing**
Runtime license per computer, add-on license for access to additional dataFEED OPC Server Mitsubishi instances

**Demo Version**
Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours

### Scope of Delivery

dataFEED OPC Server Mitsubishi Software on DVD

**Documentation**
Online Help in English and German

### Order Numbers

- **LRL-DY-132601**
dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher, for communication with Mitsubishi Melsec-Q Series PLCs, includes dataFEED OPC Organizer Classic functionality

- **LRL-DY-134201**
dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, enabling communication with OPC UA Clients, includes Bridge, Concentrator and Optimizer functionality

- **HUA-DD-130001**
USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

- **LRL-DY-134501**
dataFEED OPC Suite, Version 4.01 and higher

- **LRL-DY-134001**
dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher

- **LRL-DY-132101**
dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher

- **LRL-DY-132301**
dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher

- **LRL-DY-132401**
dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher

- **LRL-DY-132901**
dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher

- **LRL-DY-134301**
dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher

- **LRL-DY-134401**
dataFEED OPC Server Extension component of dataFEED OPC Suite, Version V4.01 and higher

100-1030-01
Training “OPC Server and Client in Practice”
dataFEED OPC Organizer UA

OPC Unified Architecture Support Enabling “Industrie 4.0”

The dataFEED OPC Organizer UA is a component of the dataFEED OPC Suite and allows the use of OPC Unified Architecture (UA) data exchange within an OPC Classic environment, resulting in a safe, reliable, manufacturer- and platform-independent industrial communication.

**OPC Communication Across Specification Boundaries**
- Cost savings through integration of non-OPC UA-ready components
- Bridge functionality for use of OPC components of different OPC specifications and OPC specification versions
- Access from OPC UA Clients to OPC Classic Servers
- Easy integration of legacy and new controllers into solutions supporting “Industrie 4.0”
- Cost savings through continued use of existing OPC Classic components

**Support of OPC UA Security Mechanisms**
- High data security provided to shop floor applications
- Possibility to use all individual security mechanisms defined by the OPC UA standard, e.g. exchange of certificates
- Authentication by user names and passwords
- Data encryption using various encryption algorithms

**Easy Access to Multiple OPC Servers**
- Concentrator functionality for reduction and unification of data items from multiple OPC Servers
- Time savings through effective and efficient configuration of distributed automation systems comprising a large number of OPC Servers
- Support of common OPC Namespace for access by OPC UA Clients

*“Industrie 4.0” is a German government-driven initiative for implementing an industrial “Internet of Things”*
### Technical Data

| Supported dataFEED OPC Suite Features | OPC UA Server, Filter, Optimizer, Concentrator, Bridge |
| Supported OPC Specifications | OPC Unified Architecture V1.01, OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Alarms & Events V1.10 |
| Supported OPC Data Types | VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, CY, DATE, BSTR, BOOL and arrays (VT_Array) of these data types |
| OPC Certification | Test using OPC Foundation’s Compliance Test Tool |
| Operation Mode | Application (OutProc Server), Windows Service |
| Logging, Diagnostics | Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional), database access (optional), configurable via integrated web server diagnostic interface |
| Licensing | Runtime license per computer, add-on license for access to additional dataFEED OPC Organizer UA instances |
| Demo Version | Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours |

### Scope of Delivery

dataFEED OPC Organizer UA | Software on DVD |
| Documentation | Online Help in English and German |

### Order Numbers

| LRL-DY-134201 | dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher, for communication with OPC UA Clients, includes dataFEED OPC Organizer Classic functionality |
| LRL-DY-134401 | dataFEED OPC Server Extension License for dataFEED OPC Suite, Version V4.01 and higher, for simultaneous access to a maximum of 50 OPC Servers or 50 dataFEED OPC Tunnel Servers |
| HUA-DD-130001 | USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key |

### Additional Products and Services

| LRL-DY-134501 | dataFEED OPC Suite, Version 4.01 and higher |
| LRL-DY-134001 | dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher |
| LRL-DY-132101 | dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher |
| LRL-DY-132301 | dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher |
| LRL-DY-132401 | dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher |
| LRL-DY-132601 | dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher |
| LRL-DY-132901 | dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher |
| LRL-DY-134301 | dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher |
| 100-1030-01 | Training “OPC Server and Client in Practice” |
| WRL-DD-031101 | OPC UA .NET Client Development Toolkit, Single Seat Developer License, Binary Format |

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**Softing Industrial Automation GmbH**
Richard-Reitzner-Allee 6
85540 Haar / Germany
Tel.: +49 89 456 56-340
Fax: +49 89 456 56-488
info.automation@softing.com
http://industrial.softing.com

**Softing North America Inc.**
US Headquarters
7209 Chapman Highway
Knoxville, TN 37920 / USA
Tel.: +1 865 251 52 52
Fax: +1 865 579 47 40
info.usa@softing.com
http://softing.us

**Softing Italy Srl**
Via Padre Massimiliano Kolbe, 6
20090 Cesano Boscone (MI) / Italy
Tel.: +39 02 450 51 71
Fax: +39 02 450 41 41
info@softingitalia.it
http://softingitalia.it

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**Buxbaum Automation GmbH**
Thomas-Alva-Edison-Straße 1
7000 Eisenstadt / Austria
Tel.: +43 2682 704 560
Fax: +43 2682 205 77 00-5610
office@myautomation.at
http://myautomation.at

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**Your local Softing Contact:**

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dataFEED OPC Organizer Classic

Improve and Extend OPC Classic Communication

The dataFEED OPC Organizer Classic is a component of the dataFEED OPC Suite and combines different components for improving and extending the OPC Classic communication. From the comprehensive scope of functions and features, users can choose the specific functionalities that meet their individual needs and requirements.

**OPC Classic Communication Across Specification Boundaries**

- Bridge functionality for use of OPC components of different OPC specification versions
- Cost savings through continued use of existing OPC components
- Possibility to integrate non-Windows computers (e.g., Linux computers) into OPC Classic applications

**Easy Access to Multiple OPC Servers**

- Concentrator functionality for reduction and unification of data items from multiple OPC Servers
- Time savings through effective and efficient configuration of distributed automation systems comprising a large number of OPC Servers
- Support of common OPC Namespace for all OPC Servers

**Optimized Access from Multiple OPC Clients to a Single OPC Server**

- Unique and proprietary algorithm for re-combining and optimizing read and write requests from multiple OPC Clients to one OPC Server
- Reduction in computational burden and processor load for OPC communication
- Increased computing power available to other applications without additional hardware
Technical Data

Supported dataFEED OPC Suite Features
- Filter, Optimizer, Concentrator, Bridge

Supported OPC Specifications
- OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01,
- OPC Alarms & Events V1.10, optional: OPC Unified Architecture V1.01

Supported OPC Data Types
- VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types

OPC Certification
- Test using OPC Foundation's Compliance Test Tool

Operation Mode
- Application (OutProc Server), Windows Service

Logging, Diagnostics
- Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access (optional),
  database access (optional), configurable via integrated web server diagnostic interface

Supported Operating Systems
- Windows 7, Windows 8, Windows 8.1, Windows Embedded 8.1 Industry
  Windows Server 2012 R2

Licensing
- Runtime license per computer, add-on license for access to additional dataFEED OPC Organizer Classic instances

Demo Version
- Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours

Scope of Delivery

dataFEED OPC Organizer Classic
- Software on DVD

Documentation
- Online Help in English and German

Order Numbers
- LRL-DY-134101: dataFEED OPC Organizer Classic component of dataFEED OPC Suite, Version 4.01 and higher, for extended OPC Classic communication functionality for data exchange, database access and file access
- LRL-DY-134401: dataFEED OPC Server Extension component of dataFEED OPC Suite, Version V4.01 and higher, for simultaneous access to a maximum of 50 OPC Servers or 50 dataFEED OPC Tunnel Servers
- HUA-DD-130001: USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

Additional Products and Services
- LRL-DY-134501: dataFEED OPC Suite, Version 4.01 and higher
- LRL-DY-134001: dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher
- LRL-DY-134201: dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher
- LRL-DY-132101: dataFEED OPC Server Siemens component of dataFEED OPC Suite, Version 4.01 and higher
- LRL-DY-132301: dataFEED OPC Server Rockwell component of dataFEED OPC Suite, Version 4.01 and higher
- LRL-DY-132401: dataFEED OPC Server Modbus component of dataFEED OPC Suite, Version 4.01 and higher
- LRL-DY-132601: dataFEED OPC Server Mitsubishi component of dataFEED OPC Suite, Version 4.01 and higher
- LRL-DY-132901: dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher
- LRL-DY-134301: dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher
- 100-1030-01: Training “OPC Server and Client in Practice”
dataFEED OPC Data Handler
Large Choice of Functionalities for Extended OPC Communications

The dataFEED OPC Data Handler is a component of the dataFEED OPC Suite and combines different, complementary components for improving and extending the OPC communication by a comprehensive scope of functions and features. Users can select the specific functionality that meets their needs and requirements.

Data Exchange With No Additional Components Required
> Easy-to-use application for data exchange between controllers
> Connection of different automation worlds (e.g. between Siemens and Rockwell)
> Access through proprietary protocols
> Cost savings by eliminating the need for expensive gateways and complex OPC Clients
> Unification of different communication structures into one OPC Namespace

Flexible Logging in Data Files
> Support of different file formats
> Proof of process data
> Processing and analysis of stored data using standard software
> Verification and documentation of implemented functionality

Comprehensive Processing System
> Wizards for fast and easy setup of database connections
> Storage of OPC Server data and local data in databases via SQL statements
> Features for performing required proof and analysis tasks
> Suitability for use in process optimization
**Technical Data**

**Supported dataFEED OPC Suite Features**
Database Access, File Access, Data Exchange (between OPC Servers or between PLCs), Filter, Optimizer, Concentrator, Bridge, Local Items (between OPC Clients)

**Supported OPC Specifications**
OPC Classic Data Access V1.0a, V2.05, V3.0, OPC Classic XML-DA V1.01, OPC Alarms & Events V1.10, optional: OPC Unified Architecture V1.01

**Supported OPC Data Types**
VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types

**Maximum Number of Items**
10,000

**OPC Certification**
Test using OPC Foundation's Compliance Test Tool

**Operation Mode**
Application (OutProc Server), Windows Service

**Logging, Diagnostics**
Logging of OPC Calls and Notifications, OPC Data, OPC Tunnel frames, text file access, database access, configurable via integrated web server diagnostic interface

**Supported Databases**
ODBC enabled databases, for example, Oracle, MySQL, Microsoft SQL Server, IBM DB2, other ODBC-enabled databases upon inquiry

**Supported Operating Systems**

**Database Wizards**
References between process items and database cells, trigger conditions for storage

**Supported Text File Formats**
ASCII, HTML, XML

**Licensing**
Runtime license per computer, add-on license for access to additional dataFEED OPC Data Handler instances

**Demo Version**
Full dataFEED OPC Suite, access to up to 10 OPC Servers and up to 250 OPC Items as well as up to 10 dataFEED OPC Tunnel connections, time limited to 72 hours

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**Scope of Delivery**

dataFEED OPC Data Handler
Software on DVD

Documentation
Online Help in English and German

**Order Numbers**

LRL-DY-134301
dataFEED OPC Data Handler component of dataFEED OPC Suite, Version 4.01 and higher, for extended OPC for data exchange, database access and file access, includes dataFEED OPC Organizer Classic functionality

LRL-DY-134401
dataFEED OPC Server Extension component of dataFEED OPC Suite, Version V4.01 and higher, for simultaneous access to a maximum of 50 OPC Servers or 50 dataFEED OPC Tunnel Servers

HUA-DD-130001
USB Hardware Key for dataFEED OPC Suite, Version V4.01 and higher, replacing the standard Software Key

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**Additional Products and Services**

LRL-DY-134501
dataFEED OPC Suite, Version 4.01 and higher

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dataFEED OPC Tunnel component of dataFEED OPC Suite, Version 4.01 and higher

LRL-DY-134201
dataFEED OPC Organizer UA component of dataFEED OPC Suite, Version 4.01 and higher

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LRL-DY-132901
dataFEED OPC Server B&R component of dataFEED OPC Suite, Version 4.01 and higher

100-1030-01
Training "OPC Server and Client in Practice"
OPC UA C++ Development Toolkits for Windows

Fast development of OPC UA Servers and Clients for Windows with C++

The OPC UA C++ Development Toolkits enable the fast integration of OPC Unified Architecture (UA) connectivity capabilities in Windows-based automation applications. It consists of a comprehensive set of libraries featuring a simple and documented programming interface, relevant example applications as well as test and simulation tools, allowing short time-to-market of OPC UA-enabled programs.

**Easy To Use Integration Interface - Faster Time-to-Market and Time-to-Revenue**

> Development of OPC UA Servers and Clients for integrating OPC UA interfaces in Windows-based automation equipment
> Optimized Application Programming Interface (API) and easy to understand documentation
> Complementary how-to example applications, step by step tutorials, complex test and simulation clients and servers for a lean getting started with OPC UA development
> Applicable for time-critical control tasks as well as for complex automation projects

**Proven Performance from Market Leader**

> Access to more than 15 years of expertise in the OPC development toolkit business
> Technology incorporated in Softing’s state-of-the-art OPC Servers and Middleware products
> Efficient development of OPC UA Servers and Clients for moving data and information from factory floor to enterprise level

**Complete Solution for All Customer Requirements**

> Comprehensive set of building blocks offering encapsulated and easy-to-use functionality required for implementing OPC UA Servers and Clients
> Wide range of functionality, including Extended Security, Data Access, Complex Data, Eventing and Historical Access in C++ for Windows
> Integrated security concepts allowing safe remote data transfer actively addressing modern security threats

**Reduced Total Technology Cost of Ownership (Development, Maintenance)**

> OPC – Right out of the box – Up-to-date with OPC specifications
> Saving of up to two years of development effort, considerably reducing time-to-market
> Very fast way to 100% OPC compliance and proven interoperability
# Technical Data

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## OPCUA Specifications

- OPC UA Core Characteristics, Data Access, Complex Data, Base Eventing, Methods, Audit, Historical Access, Alarms and Conditions, Query, Redundancy
- OPC UA Client Gateway Extension enables OPC UA Clients, developed with Softing OPC UA Toolkits, to access any OPC Classic DA Servers.
- OPC UA Server Gateway Extension enables OPC UA Servers developed with Softing OPC UA Toolkits to be accessed by OPC Classic DA Clients.

## OPCUA Modelling

- Model compiler as helper tool for address space configuration for OPC UA Servers

## OPCUA Development Environment

- Microsoft Visual Studio 2008, Microsoft Visual Studio 2010 (x86 und x64)

## OPCUA Development Operating Systems

- Windows 7 (32 Bit and 64 Bit), Windows 8.1 (32 Bit and 64 Bit), Windows Server 2008 R2, Windows Server 2012

## OPCUA Target Operating Systems

- Windows 7 (32 Bit and 64 Bit), Windows 8.1 (32 Bit and 64 Bit), Windows Server 2008 R2, Windows Server 2012, Windows Embedded

## OPCUA Compatibility

- OPC UA Client Gateway Extension enables OPC UA Clients, developed with Softing OPC UA Toolkits, to access any OPC Classic DA Servers.
- OPC UA Server Gateway Extension enables OPC UA Servers developed with Softing OPC UA Toolkits to be accessed by OPC Classic DA Clients.

## OPCUA Programming Interface

- C++

## OPCUA Support Tools

- Comprehensive programming examples and tutorials, complex test and simulation OPC UA Server and Client applications, generic technology test and demonstration Client and Server tools

## OPCUA Licensing

- Trial toolkit assemblies contain the complete functionality. Limitation to 90-minute runtime period applies.
- Trial version upgrades to unlimited functionality simply by using the binary license activation key
- Applications integrating licensed toolkit libraries can be deployed in unlimited number of copies.

## OPCUA Additional Products and Services

- OPC-ENTW-TAG OPC Engineering / Consulting / Compliance Assistance
- TRA-OPC-UA OPC UA Introductory Training for Decision Makers and Technical Leaders

## OPCUA Order Numbers

- WRL-DD-035101 OPC UA C++ Client Development Toolkit for Windows, single seat developer license, binary version
- WRL-DD-035102 OPC UA C++ Server Development Toolkit for Windows, single seat developer license, binary version
- WQL-DD-035201 OPC UA C++ Client Development Toolkit for Windows, single seat developer license, source code version
- WQL-DD-035202 OPC UA C++ Server Development Toolkit for Windows, single seat developer license, source code version
- WRL-DD-031103 OPC UA Client Gateway Extension for OPC UA Client Development Toolkits, single seat developer license, binary version
- WRL-DD-031104 OPC UA Server Gateway Extension for OPC UA Server Development Toolkits, single seat developer license, binary version
- LEA-DD-030300 Site License extension for OPC Development Toolkits
- LMA-DD-035000 OPC UA C++ Development Toolkits, maintenance and support contract
- SIA-DD-030400 OPC Toolkit integration services

## OPCUA Scope of Delivery

- Software Installation package on Softing OPC Toolkits DVD-ROM, installation package available for download
- Support Dedicated support team
- Documentation Reference Manual in English in CHM format as part of the installation package

## OPCUA Additional Products and Services

- OPC-ENTW-TAG OPC Engineering / Consulting / Compliance Assistance
- TRA-OPC-UA OPC UA Introductory Training for Decision Makers and Technical Leaders
OPC UA C++ Development Toolkits for Linux

Fast development of OPC UA Servers and Clients for Linux with C++

The OPC UA C++ Development Toolkits enable the fast integration of OPC Unified Architecture (UA) connectivity capabilities in Linux-based automation applications. It consists of a comprehensive set of libraries featuring a simple and documented programming interface, relevant example applications as well as test and simulation tools, allowing short time-to-market of OPC UA-enabled programs.

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- Integrated security concepts allowing safe remote data transfer actively addressing modern security threats

**Reduced Total Technology Cost of Ownership (Development, Maintenance)**

- OPC – Right out of the box – Up-to-date with OPC specifications
- Saving of up to two years of development effort, considerably reducing time-to-market
- Very fast way to 100% OPC compliance and proven interoperability
Technical Data

- **OPC Specifications**: OPC Unified Architecture V1.02
- **OPC Roles**: OPC UA Client, OPC UA Server
- **OPC UA Client Profiles**: Core Characteristics, Data Access, Complex Data, Base Eventing, Methods, Audit, Historical Access, Alarms and Conditions, Query, Redundancy
- **OPC UA Server Profiles**: Core Characteristics, Data Access, Complex Data, Base Eventing, Methods, Audit, Historical Access, Alarms and Conditions
- **OPC UA Transport**: OPC UA TCP Transport, UA Binary Encoding, UA Secure Conversation
- **OPC UA Security**: Security policy: Basic256/Basic128Rsa15/none, authentication: anonymous/user name and password/user certificate, Full compliance to OPC UA 1.02 specification
- **OPC UA Modelling**: Model compiler as helper tool for address space configuration for OPC UA Servers
- **OPC Backwards Compatibility**: OPC UA Client Gateway Extension enables OPC UA Clients, developed with Softing OPC UA Toolkits, to access any OPC Classic DA Servers. OPC UA Server Gateway Extension enables OPC UA Servers developed with Softing OPC UA Toolkits to be accessed by OPC Classic DA Clients.
- **Programming Interface**: C++
- **Development Environment**: GCC
- **Development Operating Systems**: Ubuntu (Kernel 2.6, Kernel 3.2), Scientific Linux (Kernel 2.6, Kernel 3.2)
- **Target Operating Systems**: Ubuntu (Kernel 2.6), Scientific Linux (Kernel 2.6), Embedded Linux (different hardware platforms), Raspberry Pi and Beaglebone Evaluation versions on request
- **Compliance/Certification**: OPC Foundation certification for Server, regularly tested at OPC Foundation interoperability workshops, test with OPC Foundation compliance test tool
- **Support Tools**: Comprehensive programming examples and tutorials, complex test and simulation OPC UA Server and Client applications, generic technology test and demonstration Client and Server tools
- **Licensing**: Trial toolkit assemblies contain the complete functionality. Limitation to 90-minute runtime period applies. Trial version upgrades to unlimited functionality simply by using the binary license activation key.
- **Installation Package**: Single seat developer license (binary and source code version)
- **Applications**: Integrating licensed toolkit libraries can be deployed in unlimited number of copies.

Scope of Delivery

- **Software**: Installation package on Softing OPC Toolkits DVD-ROM, installation package available for download
- **Support**: Dedicated support team
- **Documentation**: Reference Manual in English in CHM format as part of the installation package

Order Numbers

- **WRL-DD-035131**: OPC UA C++ Client Development Toolkit for Linux, single seat developer license, binary version
- **WRL-DD-035132**: OPC UA C++ Server Development Toolkit for Linux, single seat developer license, binary version
- **WQL-DD-035231**: OPC UA C++ Client Development Toolkit for Linux, single seat developer license, source code version
- **WQL-DD-035232**: OPC UA C++ Server Development Toolkit for Linux, single seat developer license, source code version
- **WRL-DD-031103**: OPC UA Client Gateway Extension for OPC UA Client Development Toolkits, single seat developer license, binary version
- **WRL-DD-031104**: OPC UA Server Gateway Extension for OPC UA Server Development Toolkits, single seat developer license, binary version
- **LEA-DD-030300**: Site License extension for OPC Development Toolkits
- **LMA-DD-035000**: OPC UA C++ Development Toolkits, maintenance and support contract
- **SIA-DD-030400**: OPC Toolkit integration services

Additional Products and Services

- **OPC-ENTW-TAG**: OPC Engineering / Consulting / Compliance Assistance
- **TRA-OPC-UA**: OPC UA Introductory Training for Decision Makers and Technical Leaders

Your local Softing Contact:

- Softing Industrial Automation GmbH
  - Richard-Reitzner-Allee 6
  - 85540 Haar / Germany
  - Tel.: +49 89 456 56-340
  - Fax: +49 89 456 56-488
  - info.automation@softing.com
  - http://industrial.softing.com
- Softing Industrial Automation GmbH
  - Äußere Sulzbacher Straße 159-161
  - 90491 Nürnberg / Germany
  - Tel.: +49 911 544 27-0
  - Fax: +49 911 544 27-27
  - info.automation@softing.com
  - http://industrial.softing.com
- BUXBAUM AUTOMATION GmbH
  - Thomas A. Edison Str. 1
  - 7000 Eisenstadt / Austria
  - Tel.: +43 2682 704-560
  - Fax: +43 2682 2057700-5610
  - office@myAUTOMATION.at
  - http://www.myAUTOMATION.at
- Softing North America Inc.
  - 29 Water Street, Suite 301
  - Newburyport, MA 01950 / USA
  - Tel.: +1 978 499-9650
  - Fax: +1 978 499-9654
  - info.usa@softing.com
  - www.softing.us
- Softing Italia Srl.
  - Via M. Kolbe, 6
  - 20030 Cesano Boscone (MI) / Italia
  - Tel.: +39 02 450-5171
  - Fax: +39 02 450-4141
  - info@softingitalia.it
  - http://www.softingitalia.it

OPC UA C++ Development Toolkits for Linux, single seat developer license, binary version

WRL-DD-035131

WRL-DD-035132

WQL-DD-035231

WQL-DD-035232

WRL-DD-031103

WRL-DD-031104

LEA-DD-030300

LMA-DD-035000

SIA-DD-030400
OPC UA C++ Development Toolkits for VxWorks

Fast development of OPC UA Servers and Clients for VxWorks with C++

The OPC UA C++ Development Toolkits enable the fast integration of OPC Unified Architecture (UA) connectivity capabilities in VxWorks-based automation applications. It consists of a comprehensive set of libraries featuring a simple and documented programming interface, relevant example applications as well as test and simulation tools, allowing short time-to-market of OPC UA-enabled programs.

**Easy To Use Integration Interface - Faster Time-to-Market and Time-to-Revenue**

- Development of OPC UA Servers and Clients for integrating OPC UA interfaces in VxWorks-based automation equipment
- Optimized Application Programming Interface (API) and easy to understand documentation
- Complementary how-to example applications, step by step tutorials, complex test and simulation clients and servers for a lean getting started with OPC UA development
- Applicable for time-critical control tasks as well as for complex automation projects

**Proven Performance from Market Leader**

- Access to more than 15 years of expertise in the OPC development toolkit business
- Technology incorporated in Softing’s state-of-the-art OPC Servers and Middleware products
- Efficient development of OPC UA Servers and Clients for moving data and information from factory floor to enterprise level

**Complete Solution for All Customer Requirements**

- Comprehensive set of building blocks offering encapsulated and easy-to-use functionality required for implementing OPC UA Servers and Clients
- Wide range of functionality, including Extended Security, Data Access, Complex Data, Eventing and Historical Access in C++ for VxWorks
- Integrated security concepts allowing safe remote data transfer actively addressing modern security threats

**Reduced Total Technology Cost of Ownership (Development, Maintenance)**

- OPC – Right out of the box – Up-to-date with OPC specifications
- Saving of up to two years of development effort, considerably reducing time-to-market
- Very fast way to 100% OPC compliance and proven interoperability

Typical Applications
- ERP
- Operating Systems: Windows, Linux, Solaris, ...
- Programming Languages: C++, C#

Typical Applications
- HMI, DCS, SCADA, Controller, Historian, Aggregator
- Operating Systems: Windows, Linux, ...
- Programming Languages: C++, C#

Typical Applications
- PLC, Device, M2M
- Operating Systems: Embedded Linux, VxWorks, Embedded Windows, ...
- Programming Languages: C++
## Technical Data

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<td>Core Characteristics, Data Access, Complex Data, Base Eventing, Methods, Audit, Historical Access, Alarms and Conditions</td>
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<td>OPC UA Transport</td>
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<td>OPC UA Security</td>
<td>Security policy: Basic256/Basic128Rsa15/none, authentication: anonymous/user name and password/user certificate Full compliance to OPC UA 1.02 specification</td>
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<tr>
<td>OPC UA Modelling</td>
<td>Model compiler as helper tool for address space configuration for OPC UA Servers</td>
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<tr>
<td>OPC Backwards Compatibility</td>
<td>OPC UA Client Gateway Extension enables OPC UA Clients, developed with Softing OPC UA Toolkits, to access any OPC Classic DA Servers. OPC UA Server Gateway Extension enables Softing OPC UA Toolkits to be accessed by OPC Classic DA Clients.</td>
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<tr>
<td>Programming Interface</td>
<td>C++</td>
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<tr>
<td>Development Environment</td>
<td>Wind River Workbench 3.1, Wind River Workbench 3.2, Wind River Workbench 3.3, gnu and diab Compilers for RTP Applications</td>
</tr>
<tr>
<td>Development Operating Systems</td>
<td>Windows 7 (32 Bit and 64 Bit), Windows 8.1 (32 Bit and 64 Bit), Windows Server 2008 RS2, Windows Server 2012 Linux Kernel 2.6-based (see Wind River reference list)</td>
</tr>
<tr>
<td>Target Operating Systems</td>
<td>VxWorks 6.7, VxWorks 6.8, VxWorks 6.9</td>
</tr>
<tr>
<td>Compliance/Certification</td>
<td>OPC Foundation certification for Server, regularly tested at OPC Foundation interoperability workshops, test with OPC Foundation compliance test tool</td>
</tr>
<tr>
<td>Support Tools</td>
<td>Comprehensive programming examples and tutorials, complex test and simulation OPC UA Server and Client applications, generic technology test and demonstration Client and Server tools</td>
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<tr>
<td>Licensing</td>
<td>Trial toolkit assemblies contain the complete functionality. Limitation to 90-minute runtime period applies. Trial version upgrades to unlimited functionality simply by using the binary license activation key Applications integrating licensed toolkit libraries can be deployed in unlimited number of copies.</td>
</tr>
</tbody>
</table>

### Scope of Delivery

- **Software**: Installation package on Softing OPC Toolkits DVD-ROM, installation package available for download
- **Support**: Dedicated support team
- **Documentation**: Reference Manual in English in CHM format as part of the installation package

### Order Numbers

- **WRL-DD-035141**: OPC UA C++ Client Development Toolkit for VxWorks, single seat developer license, binary version
- **WRL-DD-035142**: OPC UA C++Server Development Toolkit for VxWorks, single seat developer license, binary version
- **WQL-DD-035241**: OPC UA C++ Client Development Toolkit for VxWorks, single seat developer license, source code version
- **WQL-DD-035242**: OPC UA C++ Server Development Toolkit for VxWorks, single seat developer license, source code version
- **WRL-DD-031103**: OPC UA Client Gateway Extension for OPC UA Client Development Toolkits, single seat developer license, binary version
- **WRL-DD-031104**: OPC UA Server Gateway Extension for OPC UA Server Development Toolkits, single seat developer license, binary version
- **LEA-DD-030300**: Site License extension for OPC Development Toolkits
- **LMA-DD-035000**: OPC UA C++ Development Toolkits, maintenance and support contract
- **SIA-DD-030400**: OPC Toolkit integration services

### Additional Products and Services

- **OPC-ENTW-TAG**: OPC Engineering / Consulting / Compliance Assistance
- **TRA-OPC-UA**: OPC UA Introductory Training for Decision Makers and Technical Leaders
OPC UA .NET Development Toolkits

Fast development of OPC UA Servers and Clients for Windows with .NET

The OPC UA .NET Development Toolkits enable the fast integration of OPC Unified Architecture (UA) connectivity capabilities in .NET-based automation applications for Windows. It consists of a comprehensive set of libraries featuring a simple and documented programming interface, relevant example applications as well as test and simulation tools, allowing short time to market of OPC UA enabled programs.

**Easy To Use Integration Interface - Faster Time-to-Market and Time-to-Revenue**

> Development of OPC UA Servers and Clients for integrating OPC UA interfaces in Windows-based automation equipment
> Optimized Application Programming Interface (API) and easy to understand documentation
> Complementary how-to example applications, step by step tutorials, complex test and simulation clients and servers for a lean getting started with OPC UA development
> Applicable for time-critical control tasks as well as for complex automation projects

**Proven Performance from Market Leader**

> Access to more than 15 years of expertise in the OPC development toolkit business
> Technology incorporated in Softing’s state-of-the-art OPC Servers and Middleware products
> Efficient development of OPC UA Servers and Clients for moving data and information from factory floor to enterprise level

**Complete Solution for All Customer Requirements**

> Comprehensive set of building blocks offering encapsulated and easy-to-use functionality required for implementing OPC UA Servers and Clients
> Wide range of functionality, including Extended Security, Data Access, Complex Data, Eventing and Historical Access in C# for Windows
> Integrated security concepts allowing safe remote data transfer actively addressing modern security threats

**Reduced Total Technology Cost of Ownership (Development, Maintenance)**

> OPC – Right out of the box – Up-to-date with OPC specifications
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> Very fast way to 100% OPC compliance and proven interoperability
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<td>OPC UA TCP transport: UA Binary encoding, SOAP/HTTP transport: UA Binary and XML encoding, HTTPS transport: UA Binary and XML encoding</td>
</tr>
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<td>Trial toolkit assemblies contain the complete functionality. Limitation to 90-minute runtime period applies. Trial version upgrades to unlimited functionality simply by using the binary license activation key</td>
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<tr>
<td><strong>Licensing</strong></td>
<td>Trial and evaluation license, single seat developer license (binary and source code version) Applications integrating licensed toolkit libraries can be deployed in unlimited number of copies.</td>
</tr>
</tbody>
</table>

*Please contact the Softing sales representative for requests of different compilers or operating system variants.

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**Scope of Delivery**

- **Software**
  - Installation package on Softing OPC Toolkits DVD-ROM, installation package available for download
- **Support**
  - Dedicated support team
- **Documentation**
  - Online help in English in CHM format as part of the installation package

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<tr>
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<td>WRL-DD-031102</td>
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<td>WQL-DD-031201</td>
<td>OPC UA .NET Client Development Toolkit for Windows, single seat developer license, source code version</td>
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<tr>
<td>WQL-DD-031202</td>
<td>OPC UA .NET Server Development Toolkit for Windows, single seat developer license, source code version</td>
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<td>WRL-DD-031103</td>
<td>OPC UA Client Gateway Extension for OPC UA Client Development Toolkits, single seat developer license, binary version</td>
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<tr>
<td>LMA-DD-031000</td>
<td>OPC UA .NET Development Toolkits, maintenance and support contract</td>
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**Additional Products and Services**

- **OPC-ENTW-TAG**
  - OPC Engineering / Consulting / Compliance Assistance
- **TRA-OPC-UA**
  - OPC UA Introductory Training for Decision Makers and Technical Leaders
- **TRA-OPC-UA-DEV**
  - OPC UA .NET Developer Training

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Your local Softing Contact:
PROVEN PERFORMANCE FROM THE MARKET LEADER
Since 1997 the OPC Classic Development Toolkits have been continuously enhanced in response to evolving technologies and customer needs. Several thousand products with Softing Industrial Automation’s OPC technology inside are in use at more than 1,600 companies around the world. Thanks to extensive performance and robustness optimizations the OPC Toolkits are proven for both time-critical control tasks as well as complex projects comprising several hundred thousand items. Toolkit demo client and server applications are officially certified by the OPC Foundation Laboratory, meaning that products based on Softing OPC Toolkits are only a few steps away from OPC compliance and certification.

EASY TO USE INTEGRATION INTERFACE
OPC Toolkits offer an OPC connectivity library comprehensively matching customer requirements. They include a simple and intuitive Application Programming Interface in C++ and .NET flavors, accompanied by a project generation wizard, easy to understand documentation, tutorial and sample projects. The toolkits provide straightforward integration in end user applications of OPC Data Access (DA), Alarms & Events (A&E) and XML-DA Servers and/or Clients, using a standardized OPC connectivity component for moving data and information from the factory to the enterprise level.

COMPREHENSIVE LIBRARY ALLOWING SHORT TIME TO MARKET
Using the included application generation wizard, it takes developers just a few steps to select the desired client and/or server for the OPC DA, A&E and/or XML-DA connectivity interface for the product, specify the development environment and programming language (C++, Visual Basic .NET or C#), and configure some basic settings. The wizard automatically generates the OPC Client and/or Server frame application project. All that is left to do is to integrate the product’s specific business logic. OPC specific functionality, like
> Creating, Browsing and Managing the OPC Namespace or Event Area
> Creating, Deleting, Reading and Writing OPC Items and
> Event and Condition Management Handling
is already in place and ready to use after the wizard steps have been completed. Using the OPC Toolkits saves several months of work and allows software designers to focus on their project goals and not on learning the details of the OPC specifications or DCOM technology.
**TECHNICAL DATA**

- **OPC Specifications**: OPC Data Access V1.0a, V2.05, V3.0, OPC Alarms & Events V1.10, OPC XML-DA V1.01
- **OPC Roles**: OPC Client, OPC Server
- **OPC Transport**: DCOM for OPC Data Access and Alarms & Events, HTTP for OPC XML-DA
- **OPC Security**: Partial Support of OPC Security Custom Interface V1.00
- **Programming Interface**: C++, C#, Visual Basic .NET
- **Development Operating Systems**: Windows XP (32Bit, 64Bit), Windows 7 (32Bit, 64Bit), Windows 8 (32Bit, 64Bit)
- **Target Operating Systems**: Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Linux 2.4 and 2.6 Kernels

**ADDITIONAL PRODUCTS AND SERVICES**

- **OPC-ENTW-TAG**: OPC Engineering / Consulting Day

**SCOPE OF DELIVERY**

- **Software**: Installation Package on Softing OPC Toolkits DVD-ROM, Installation Package Available for Download
- **Support**: Dedicated Support Team
- **Documentation**: Online Help in English in CHM Format as Part of the Installation Package

**ORDER NUMBERS**

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<td>WQL-DD-034202</td>
<td>LRA-DD-034502</td>
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<td>WQL-DD-034212</td>
<td>LRA-DD-034512</td>
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<tr>
<td>OPC Classic XML-DA Server Toolkit for Linux</td>
<td>WRL-DD-034132</td>
<td>WQL-DD-034232</td>
<td>Not Available</td>
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</table>

- **SIA-DD-030400**: OPC Toolkit Integration Services on Customer Specific Target Platforms
- **LEA-DD-030300**: Site License Extension for OPC Development Toolkits
- **OPC-MAINTAIN-TB**: Service and Support Contract for OPC Classic Development Toolkits

**COMPLIANCE/CERTIFICATION**

- Regularly Tested at OPC Foundation Interoperability Workshops
- Successful Pass of Test with OPC Foundation Compliance Test Tool

**PROGRAMMING SUPPORT**

- Wizard for Automatic Creation of OPC Client or OPC Server Framework Application
- Comprehensive Programming Samples and Tutorials
- OPC Demo Client and Server With Unlimited Functionality and Unlimited Runtime Available for Testing and Demonstration Purposes

**TRIAL VERSION**

- Full Functionality Available in Trial Version, Limited to 90-Minute Runtime Period
- Trial Version Library Will Upgrade to Full Blown, Fully Functional Binary Version by Activating Design-Time License Key

**LICENSING**

- Single Seat Developer License for Specific OPC Toolkit Features in Source and Binary Format
- OPC Enabled Applications Based on Source or Binary Format License Can Be Deployed Without Limitations
- Runtime Based Licensing Is Available for Windows Based OPC Toolkit Features

**SOFTWARE INSTALLATION**

- Software installation Package on Softing OPC Toolkits DVD-ROM
- Installation Package Available for Download

**SUPPORT AND DOCUMENTATION**

- Dedicated Support Team
- Online Help in English in CHM Format as Part of the Installation Package

Softing Industrial Automation is a world leading provider of industrial communication products and technologies for manufacturing and process automation. Our products are tailored to the requirements of system integrators, device vendors, machine and equipment manufacturers or end users and are known for their ease-of-use and functional advantages.