

OPC UA C++ SDKs for Linux

Fast Time-to-Market for OPC UA Clients, OPC UA Servers, OPC UA Publishers and OPC UA Subscribers

- **OPC UA Communication Integration in Automation Environments**
- **Comprehensive Functionality Provided by Libraries**
- **Optimal Total Costs of Ownership Through All-In-One License Model**



Complete Solution Addressing All Customer Requirements

- Comprehensive set of building blocks offering encapsulation and easy-to-use functionality required for implementing OPC UA Clients, OPC UA Servers, OPC UA Publishers and OPC UA Subscribers
- Modular design to scale OPC UA functionality according to actual requirements
- Wide range of available functionality, including Extended Security, Data Access, Complex Data, Events, Alarms & Conditions and Historical Access
- Integrated security concepts allowing safe remote data transfer actively addressing modern security threats
- Applicable for time-critical control tasks as well as for complex automation projects
- Capable to move data and information between factory floor and enterprise level

Comprehensive Scope of Delivery for Easy and Fast Development

- 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

Investment Security Through Innovative License Model

- Implementation according latest OPC UA specifications
- Free migration to upcoming OPC UA SDK versions and 3 years' right to updates to future versions
- Technology proven by use in Softing's OPC Server and middleware products

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Technical Data

OPC Specifications	OPC Unified Architecture V1.04
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, Reverse Connect, Query, Redundancy, Publisher, Subscriber
OPC UA Server Profiles	Core Characteristics, Data Access, Complex Data, Base Eventing, Methods, Audit, Historical Access, Alarms and Conditions, Reverse Connect, Publisher, Subscriber
OPC UA Transport	OPC UA TCP transport: UA Binary Encoding, UA Secure Conversation HTTPS transport: UA Binary Encoding UADP Publisher, UADP Subscriber: UA Binary Encoding MQTT Publisher, MQTT Subscriber: UA JSON Encoding
OPC UA Security	Security policy: Elliptic Curve Cryptography (ECC), Aes128Sha256RsaOaep, Aes256Sha256RsaPss, Basic256Sha256/Basic256/Basic128Rsa15/None Authentication: anonymous/user name and password/user certificate GDS Push/Pull Support
Programming Interface*	C++
Development Environment*	GCC Version 7, 9, 11 (only 64 Bit)
Development Operating Systems*	Any Linux system (tested on Ubuntu 16, 18, 20)
Target Operating Systems*	Any Linux system (The binary delivery includes: Linux PC platforms on Intel 32 and 64 Bit processors, ARM platforms)
Compliance/Certification	OPC Foundation certification for Server, regularly tested at OPC Foundation interoperability workshops
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
Trial Version	Trial OPC UA SDK assemblies contain complete functionality. Limitation to 90-minute runtime period applies. Trial version upgrades to unlimited functionality simply by using binary license activation key
Licensing	Trial and evaluation license, single seat developer license (binary and source code version), side license on request. Applications integrating licensed OPC UA SDK libraries can be deployed in unlimited number of copies.

* Binary support for embedded systems is available on request and usually accompanied by a small integration project.
Please contact the Softing sales representative for requests of different compilers or operating system variants.
Known to work on several Linux distributions as well as on Solaris and QNX, expected to be easily ported to other Unix-based platforms

Scope of Delivery

Software	Installation package available for download
Support	Dedicated support team
Documentation	Reference Manual in English in CHM format as part of installation package

Order Numbers

Please contact Softing (Email: info.automation@softing.com) or your local Softing contact regarding a quotation and the order number.

Additional Products and Services

LRL-DY-135001	dataFEED OPC Suite Extended
TSA-DY-142001	OPC Engineering / Consulting / Compliance Assistance

Your local Softing contact:

<https://industrial.softing.com>

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