OPC UA C++ SDKs for VxWorks

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
## OPC UA C++ SDK for VxWorks

### 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, Basic256/Basic128Rsa15/None Authentication: anonymous/user name and password/user certificate
  - GDS Push/Pull Support
  - Full compliance to OPC UA 1.04 specification

- **Programming Interface***
  - C++

- **Development Environment***
  - Wind River Workbench 3.3, Wind River Workbench 4

- **Target Operating Systems***
  - VxWorks 6.9, VxWorks 7

- **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 the complete functionality. Limitation to 90-minute runtime period applies.
  - Trial version upgrades to unlimited functionality simply by using the binary license activation key

- **Licensing**
  - Trial and evaluation license, single seat developer license (source code version), side license on request.
  - Applications integrating licensed OPC UA SDK libraries can be deployed in unlimited number of copies.

* Support for hardware platform or operating system versions different from the reference platforms is available on request and usually accompanied by a small integration project.

Please contact the Softing sales representative for a customized offer.

### 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

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