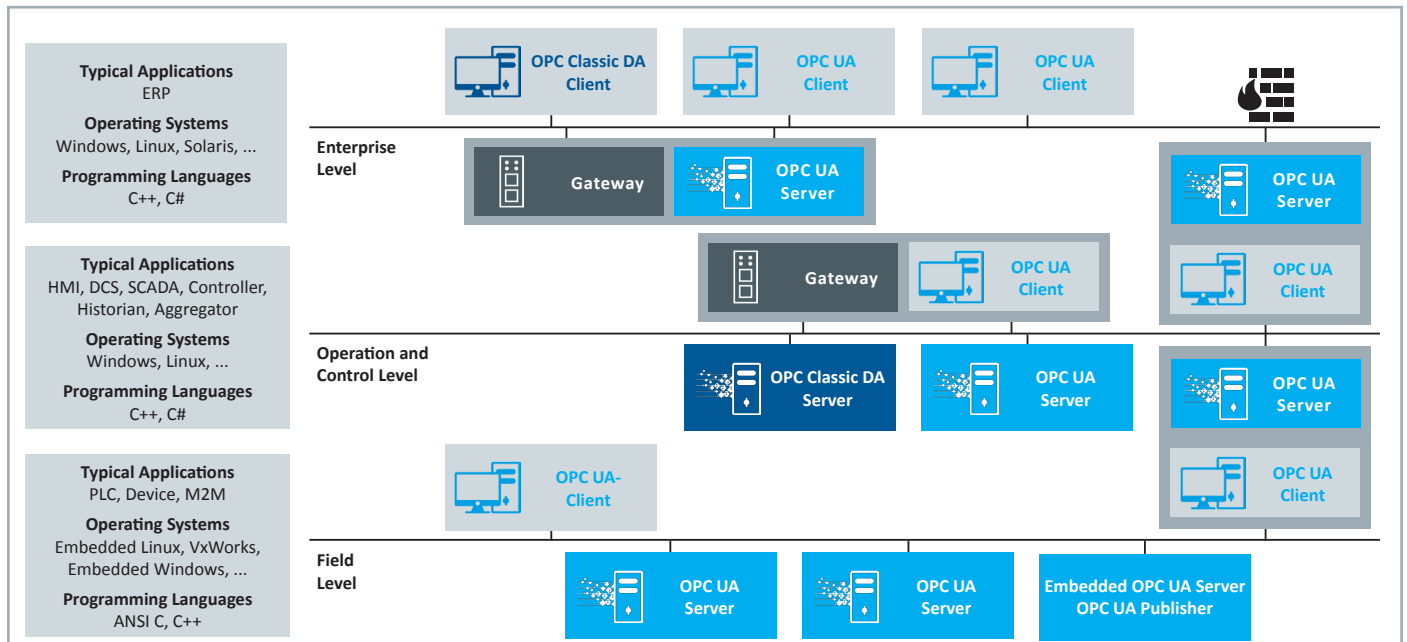


# OPC UA C++ Development Toolkits for VxWorks

Fast Time-to-Market for OPC UA Clients and Servers

- **OPC UA Communication Integration in VxWorks-based 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 and Servers for VxWorks environment
- 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
- OPC UA Servers and Clients 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
- Complimentary 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 Client respectively OPC UA Server specifications
- Free migration to upcoming OPC UA Development Toolkit versions thanks to toolkit software and 3 years' right to updates to future versions
- Technology proven by use in Softing's OPC Server and middleware products

# OPC UA C++ Development Toolkits for VxWorks

## 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 HTTPS transport; UA Binary Encoding
OPC UA Security	Security policy: Basic256/Basic128Rsa15/None Authentication: anonymous/user name and password/user certificate Full compliance to OPC UA 1.03 specification
OPC UA Modelling	Model designer 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*	Wind River Workbench 3.1, Wind River Workbench 3.2, Wind River Workbench 3.3, Wind River Workbench 4, gnu and diab Compilers for RTP Applications
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, Linux Kernel 2.6-based (see Wind River reference list)
Target Operating Systems*	VxWorks 6.7, VxWorks 6.8, 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 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
Licensing	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.

\* 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 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 installation package

## Order Numbers

LMA-DD-035141	Service and Support Contract for OPC UA C++ Client Toolkit for VxWorks, 3 years minimum period, based on yearly fee, including single seat developer license WRL-DD-035141, binary format
WRL-DD-035141	OPC UA C++ Client Toolkit for VxWorks, single seat developer license, binary format, available only in combination with LMA-DD-035141
LMA-DD-035142	Service and Support Contract for OPC UA C++ Server Toolkit for VxWorks, 3 years minimum period, based on yearly fee, including single seat developer license WRL-DD-035142, binary format
WRL-DD-035142	OPC UA C++ Server Toolkit for VxWorks, single seat developer license, binary format, available only in combination with LMA-DD-035142
LMA-DD-035241	Service and Support Contract for OPC UA C++ Client Toolkit for VxWorks, 3 years minimum period, based on yearly fee, including single seat developer license WQL-DD-035241, source format
WQL-DD-035241	OPC UA C++ Client Toolkit for VxWorks, single seat developer license, source format, available only in combination with LMA-DD-035241
LMA-DD-035242	Service and Support Contract for OPC UA C++ Server Toolkit for VxWorks, 3 years minimum period, based on yearly fee, including single seat developer license WQL-DD-035242, source format
WQL-DD-035242	OPC UA C++ Server Toolkit for VxWorks, single seat developer license, source format, available only in combination with LMA-DD-035242
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
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

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