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**

- **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 1.02 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.
- **Development Environment**: C++
- **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 Systems
- **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.

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

**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