

## OPC Toolbox (C++ / .NET), Version 4.2x Version History

Release Number	Release Date	Release Note
V4.22.05	08.02.2010	<p>This version includes improvements, extensions and bug fixes for version 4.22:</p> <ul style="list-style-type: none"> <li>• OPC Client toolkit improved with access to Rockwell Server</li> <li>• Documentation items added in Reference Manual</li> <li>• Tracefiles are not created on the server's binaries location if the server is started by Demo Client fixed</li> <li>• Array datatype UI8 and I8 does not work correctly (TBC and TBN) fixed</li> <li>• Client ObjectSpaceElement superfluous attributes removed fixed</li> <li>• XML-DA now interoperable with SIMOTION OPC server implementation</li> <li>• XML-DA Session CurrentState property now changes when server is disconnected</li> <li>• String-based address space supported with XML-DA</li> <li>• Browsing of DCOM servers with the filter EnumServerBrowser-Data_URL fixed</li> <li>• DaBrowse_DA20 items not named correctly in hierarchy with duplicate names - The sample was adapted to demonstrate the feature used for servers built with Rockwell OPC Toolkit</li> <li>• Connect using credentials to a server using tpda fails fixed</li> <li>• .NET dlls and C++ dlls have the same way of defining product versions</li> <li>• Wrong client name set for tunnel connections fixed</li> <li>• Demo client and server upgrade to unicode and VS2008</li> <li>• Server Request component works also when cache is NULL</li> <li>• XML-DA Subscriptions are now removed when client is being killed</li> <li>• XML-DA Arrays are now supported by Demo Client</li> <li>• SODaSRequest::complete can be called twice without failure</li> <li>• Session.DaGetProperties now works properly when properties for more than one element are requested</li> <li>• DA server side sessions are now cleaned up properly if the client closes "ungracefully"</li> <li>• From EasyConnect: Blocking syncRead TP call with itemTag = NULL</li> <li>• UI8 arrays and I8 arrays can now be used with .NET</li> <li>• Warning level has been upgraded to 4 for toolbox libraries</li> <li>• Documentation updated, remarks, notes added</li> <li>• .NET applications are working on 64 bit operating systems</li> <li>• Server Sample PerfClient can now be started implicitly with DemoClient</li> <li>• Ambiguous usage of string-based syntax-based and object-based namespace</li> </ul>

V4.22.03	08.07.2009	<p>This version includes improvements, extensions and bug fixes for version 4.22 for following topics:</p> <p>Common</p> <ul style="list-style-type: none"> <li>• XML-DA: SOAP messages that contain elements between the envelope and body tag are now handled correctly</li> <li>• OInitLib OTExitLib is now decoupled from the Server/Client instances</li> </ul> <p>Server</p> <ul style="list-style-type: none"> <li>• C++ ServerAEAddressSpaceElement::getParent method does now work correctly</li> <li>• Server status version number is now reported correctly</li> <li>• AeAddressSpaceElement::removeChild now handles the child elements correctly</li> <li>• The server is now able to get and store the name of the client that is connecting to it</li> <li>• The number of clients that can connect to a server now can be limited</li> </ul> <p>Client</p> <ul style="list-style-type: none"> <li>• Browse on DaSession does now work properly for XML-DA</li> <li>• Browsing a DAV2.0 server that has nodes with a huge amount of items now works properly</li> <li>• Communication problems (gaps in interpretation of the specification) with Siemens XML-DA Server fixed</li> <li>• Browsing of name spaces with identical item names in several name space branches in OPC servers built with Rockwell Toolkit (problem of Rockwell Toolkit) fixed with workaround</li> <li>• .NET DABrowseV2.0 sample - Browsing servers that support DAV2.0 returns correct results now</li> </ul>
V4.22.01	04.03.2009	<p>Common</p> <ul style="list-style-type: none"> <li>• Extensions of tracing capabilities</li> </ul> <p>Server</p> <ul style="list-style-type: none"> <li>• CTT failure in string based address space fixed</li> </ul> <p>Client</p> <ul style="list-style-type: none"> <li>• VB .NET DAConsole sample - Fix asynchronous read and write on session object</li> <li>• Alarms &amp; Events: get the fully qualified name of an area or source object in the correct way</li> <li>• Wrong binary name for AEQuerySourceConditions in client sample fixed</li> <li>• Add a subscription to an OPC server not supporting setFilter interface is now possible</li> <li>• wrong HRESULT when validating Items fixed</li> <li>• AE event attributes are now retrieved by .NET client application</li> </ul>
V4.22.00	19.12.2008	<p>Visual Studio 2008 support</p> <ul style="list-style-type: none"> <li>• A new development environment, Visual Studio 2008, is supported now. Beside the already existing toolbox and example projects, an additional VS2008 project exists for all of them.</li> </ul> <p>Linux support</p> <ul style="list-style-type: none"> <li>• The version 4.22 of the OPC Toolbox is introducing Linux support. Following Linux distributions are supported: <ul style="list-style-type: none"> <li>- Debian - distributions with 2.4 and 2.6 Kernel</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>- RedHat - distributions with 2.4 and 2.6 Kernel</li> <li>- Suse - distributions with 2.4 and 2.6 Kernel.</li> <li>• Examples to demonstrate the toolbox functionality are also available for Linux distributions.</li> </ul> <p>Extended client and server samples</p> <ul style="list-style-type: none"> <li>• New samples were added for both client and server to demonstrate the toolbox functionality that was not covered by the other examples. A service sample was added for both server and client.</li> </ul> <p>Tutorial samples for C++</p> <ul style="list-style-type: none"> <li>• With the version 4.22, tutorial examples were added for C++ to show the steps to be followed for creating an OPC Client or an OPC server. The documentation, in the "Tutorial" chapter, gives explanations about the actions that were taken in every step.</li> </ul> <p>Wizard application new look and feel</p> <ul style="list-style-type: none"> <li>• With the version 4.22, tutorial examples were added for C++ to show the steps to be followed for creating an OPC Client or an OPC server. The documentation, in the "Tutorial" chapter, gives explanations about the actions that were taken in every step.</li> </ul> <p>API(classes, methods, parameters) Changes V4.20-&gt;V4.22</p> <ul style="list-style-type: none"> <li>• With the version 4.22, the .NET methods returned type is int instead of uint as it was before. Still, the returned values should be checked using ResultCode.SUCCEEDED or ResultCode.FAILED.</li> <li>• In the Application class the EnableTracing method signature has changed - parameter fileName2 was removed.</li> </ul>
V4.20.04.1238	13.10.2008	<p>Common</p> <ul style="list-style-type: none"> <li>• Corrected ValueQT.ToString and ValueData.ToString method implementation</li> </ul> <p>Server</p> <ul style="list-style-type: none"> <li>• Fixed server registration problem with blanks in the path for Wizard generated projects</li> <li>• Performance tuning for adding and removing groups &gt; 2000 items</li> </ul> <p>Client</p> <ul style="list-style-type: none"> <li>• Fixed problem when writing write only item on XML-DA #214#</li> <li>• Corrected DaSession. Write method</li> </ul>
V4.20.03.1173	25.09.2008	<p>Client</p> <ul style="list-style-type: none"> <li>• Added HTTP basic authorization functionality to XML-DA client</li> </ul>
V4.20.02.1074	29.08.2008	<p>Server</p> <ul style="list-style-type: none"> <li>• Fixed possible XML-DA CTT 1.0.8 "FT - SubscriptionPolledRefresh - Valid - Case 5" error</li> <li>• Fixed possible XML-DA CTT 1.0.8 "FT - SubscriptionPolledRefresh - Valid - Case 8" error</li> <li>• Fixed XML-DA server error if the last part of a SOAP message has the length 1</li> </ul> <p>Client</p> <ul style="list-style-type: none"> <li>• Corrected behaviour on explicit Connect call on a Daltem</li> </ul>

		<ul style="list-style-type: none"> <li>• Fixed wrong return code of DaSubscription.ValidateDaltems for invalid items</li> <li>• Corrected browsing leaves on a DA V2 server</li> <li>• Fixed wrong return code on a failure of browsing the servers installed on a computer</li> <li>• Fixed wrong return code on a failure of connecting to a server</li> <li>• Corrected DaValidateltems implementation for XML-DA servers</li> </ul>
V4.20.01.0938	23.06.2008	<p>Common</p> <ul style="list-style-type: none"> <li>• Corrected implementation of base64 encoding in the XML-DA client and server</li> </ul> <p>Server</p> <ul style="list-style-type: none"> <li>• Removed compile error occurred when compiling the core with all server sources installed</li> </ul> <p>Client</p> <ul style="list-style-type: none"> <li>• Corrected getting local stored properties in the client</li> <li>• Corrected the string based browsing in the server</li> </ul>
V4.20	17.03.2008	Release