

## Release Notes

# uaToolkit Embedded

Version 1.41

December / 2022

# 1 Release History

Version	Date	Release Note
V1.41	15 Dec 2022	<p><b>Bug Fixes:</b></p> <ul style="list-style-type: none"> <li>• Fixed issues with new CTT version 1.04.11-01.00.500</li> <li>• Fixed a defect where Subscriptions are not updated under rare conditions</li> <li>• Fixed wrong encoding in OpcUa_WriterGroupDataType, which affects the PubSub Discovery Announcement messages</li> <li>• Updated to openssl 1.1.1s <ul style="list-style-type: none"> <li>• Fixed missing openssl headers in linux demo installation</li> <li>• Reduced memory footprint by ~200K, by optimizing openssl configuration: <ul style="list-style-type: none"> <li>no-ec: saves ~175K code/readonly memory</li> <li>no-autoerrinit: saves ~25K code/readonly memory.</li> </ul> </li> </ul> </li> <li>• Self-signed instance certificates are now created with CA:FALSE which is considered more secure</li> </ul> <p><b>Fixed Security issues:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">CVE-2022-45920</a></li> <li>• <a href="#">CVE-2022-44018</a></li> <li>• <a href="#">CVE-2022-0778</a></li> </ul>
V1.40	12 Nov 2021	<p><b>New Features:</b></p> <p><b>PubSub</b></p> <ul style="list-style-type: none"> <li>• Send and receive discovery announcements on separate multi-cast address (224.0.2.14, default port: 4840)</li> <li>• Fix calculation of status code in message header for raw encoded UADP messages</li> <li>• Fix handling of TimeoutHint=0 in Publish RequestHeader</li> </ul> <p><b>Server applications / Address space</b></p> <ul style="list-style-type: none"> <li>• Provide limited OPC UA Client functionality to enable a server application to register with a Local Discovery Server (LDS)</li> <li>• Updated address space for namespace index 0 to version V1.04.9</li> <li>• Implement SetTriggering service for MonitoredItems</li> <li>• Fix mandatory usage of namespace index 1 by the server application</li> <li>• Fix several security issues when checking a variable's data type</li> </ul> <p><b>NodesetTo tool</b></p> <ul style="list-style-type: none"> <li>• Fix wrong C-code generation regarding data type dictionaries</li> </ul> <p><b>OpenSSL</b></p> <ul style="list-style-type: none"> <li>• The Softing uaToolkit Embedded now uses OpenSSL version 1.1.1l</li> </ul> <p><b>Fixed Security issues:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">CVE-2021-40872</a></li> <li>• <a href="#">CVE-2021-40873</a></li> </ul>
V1.31.0	28 Nov 2019	<p><b>New Features:</b></p> <ul style="list-style-type: none"> <li>• OPC UA Publisher and Subscriber improvements: Metadata and discovery announcements, non-strict Subscriber configuration mode, DataSet message ordering</li> <li>• TemplateServerGen application with support for up to four OPC UA namespaces.</li> <li>• OpenSSL 1.1.1 support</li> </ul>
V1.30.0	01 Aug 2019	<p><b>New Features:</b></p> <ul style="list-style-type: none"> <li>• OPC UA Events</li> <li>• OPC UA Alarms &amp; Conditions</li> <li>• Improved the customized generation of the SDK libraries</li> </ul>

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V1.20.0	05 Mar 2019	<b>New Features:</b> <ul style="list-style-type: none"> <li>• OPC UA Subscriber</li> <li>• OPC UA Publisher information model</li> <li>• OPC UA Publisher improvements: Full UADP parametrization</li> </ul>
V1.11.0	05 Oct 2018	<b>New Features:</b> <ul style="list-style-type: none"> <li>• Dynamic OPC UA address space</li> <li>• Asynchronous handling of Read, Write, Call and MonitoredItem services</li> <li>• Custom enumerations and structured data types</li> <li>• Nodeset import tool to generate address space source code</li> <li>• Platform Layers: eCos</li> </ul>
V1.10.5	07 Aug 2018	OPC Foundation Lab Certification for Nano Embedded Device Server, Micro Embedded Device Server and Embedded UA Server Profile
V1.10.0	07 Mar 2018	<b>New Features:</b> <ul style="list-style-type: none"> <li>• Micro Embedded Device Server and Embedded UA Server Profile support</li> <li>• Client/Server Subscriptions</li> <li>• Methods</li> <li>• OPC UA V1.03 compliance (CTT)</li> <li>• OPC UA Publisher compliant with OPC UA V1.04</li> <li>• Platform Layers: FreeRTOS</li> <li>• Security library support: mbedTLS</li> </ul>
V1.00.0	09 Mar 2017	First release of the uaToolkit Embedded <b>Features:</b> <ul style="list-style-type: none"> <li>• OPC UA Server</li> <li>• Browse, Read, Write</li> <li>• Nano Embedded Device Server Profile support</li> <li>• Client/Server security</li> <li>• OPC UA Publisher</li> <li>• Scalar built-in data types and one-dimensional arrays</li> <li>• Platform Layers: Linux, Windows</li> <li>• Security library support: OpenSSL</li> </ul>