

Version	Date	Release Note
V1.45.0	31.10.2018	<b>General Enhancements</b> <ul style="list-style-type: none"> <li>Softing OPC UA .NET Toolkit was renamed to dataFEED OPC UA .NET Server &amp; Client Software Development Kit.</li> <li>Standard NodeSet files and generated code updated to 1.04 version of the OPC UA specifications.</li> <li>Added Client and Server sample projects for FileTransfer functionality.</li> <li>Added support for FindServersOnNetwork service call in Client library.</li> <li>Added FindServers method in Client library decoupled from GetEndpoints.</li> <li>Added support for user certificate validators in Server library.</li> <li>Enhancements in ImportNodeSet functionality.</li> <li>Updates for OPC UA 1.03 Specifications compliance in Server library.</li> <li>Updates for OPC UA 1.03 Specifications compliance in Client library.</li> <li>Bug fixes.</li> </ul>
V1.44.0	02.02.2018	<b>General Enhancements</b> <ul style="list-style-type: none"> <li>Added support for Visual Studio 2017 and .NET Framework 4.7</li> <li>Added support for Windows Server 2016 operating system</li> <li>Removed support for Visual Studio 2008</li> <li>Bug fixes</li> </ul>
V1.43.0	07.07.2017	<b>General Enhancements</b> <ul style="list-style-type: none"> <li>Support for security policy Base256Sha256</li> <li>Adaptions and bug fixes for OPC UA 1.03 compliance</li> </ul>

V1.41.0	15.12.2016	<p><b>General Enhancements</b></p> <ul style="list-style-type: none"> <li>• Visual Studio 2015 support: Sample projects and solutions for Visual Studio 2015 and .NET Framework 4.6</li> <li>• Support for Windows 10 operating system.</li> <li>• Log4net trace mechanism dependency is now optional</li> <li>• Generic bug-fixing and performance optimizations</li> <li>• Softing OPC UA client Application rebranded to <b>Softing dataFEED OPC UA Client</b></li> </ul> <p><b>Server Toolkit Enhancements</b></p> <ul style="list-style-type: none"> <li>• Standard NodeSet files and generated code updated to 1.03 version of the OPC UA specifications.</li> </ul>
V1.40.0	20.09.2016	<p><b>Client Toolkit Enhancements</b></p> <ul style="list-style-type: none"> <li>• Support for TranslateBrowsePathToNodeIds service</li> <li>• Support for HistoryRead service</li> <li>• KeepAlive event added for Session class</li> <li>• Support for MaxAge parameter in Read method</li> </ul> <p><b>Server Toolkit Enhancements</b></p> <ul style="list-style-type: none"> <li>• Server support for importing NodeSet XML files</li> </ul> <p><b>Various improvements and fixes according to customer feedback.</b></p>
V1.30.3	13.11.2015	<p><b>Client Toolkit, Client &amp; Server Gateways Extensions</b></p> <ul style="list-style-type: none"> <li>• Various improvements and fixes according to customer feedback.</li> </ul>
V1.30.0	01.07.2015	<p><b>General Enhancements</b></p> <ul style="list-style-type: none"> <li>• Visual Studio 2013 support: Sample projects and solutions for Visual Studio 2013 and .NET Framework 4.5.1</li> <li>• Generic bug-fixing and performance optimizations</li> </ul> <p><b>Client Toolkit Enhancements</b></p> <ul style="list-style-type: none"> <li>• Support for warm redundancy</li> </ul>

V1.27.1	06.02.2015	<b>Server &amp; Client Toolkit</b> <ul style="list-style-type: none"> <li>• Adaptions and bug fixes for OPC UA 1.02 compliance</li> <li>• API Break Changes due to logic simplifications and consequence for MonitoredItem, Subscription and Method classes:</li> <li>• Async support for method call API</li> </ul>
		<b>Client Gateway Extension</b> <ul style="list-style-type: none"> <li>• Projects upgraded to Visual Studio 2013 and .NET 4.5.1.</li> <li>• Performance optimization for GetItemProperties.</li> <li>• Support for syntax based items in the underlying DA Server.</li> </ul> <b>Server Gateway Extension</b> <ul style="list-style-type: none"> <li>• Projects upgraded to Visual Studio 2013 and .NET 4.5.1.</li> </ul>
V1.27.0	16.12.2014	<b>OPC Foundation's Lab certification</b> was awarded for both the <b>Server and the Client Toolkit</b> functionalities <ul style="list-style-type: none"> <li>• Adaptions for OPC UA 1.02 compliance</li> </ul>
V1.26.1	18.11.2014	<b>Client Gateway Extension</b> <ul style="list-style-type: none"> <li>• Added advanced configurable mappings for custom OPC Classic qualities to OPC UA status codes</li> </ul>

V1.26.0	12.09.2014	<p><b>Sample Applications</b></p> <ul style="list-style-type: none"> <li>• Client - New Tutorial</li> <li>• Server - Sample cleanup</li> <li>• Server - New Method Call Console Sample</li> <li>• Server - New Data Access Sample</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>• was completely restructured and reorganized to provide an easy getting into</li> </ul> <p><b>Softing OPC UA client</b></p> <ul style="list-style-type: none"> <li>• Events</li> <li>• Complex data-types support</li> <li>• Recorded the log of data-changes</li> <li>• HTTPS support</li> </ul> <p><b>Client Gateway Extension</b></p> <ul style="list-style-type: none"> <li>• separated in a dedicated installation package</li> <li>• no longer part of the toolkit main installation package</li> </ul> <p><b>Server Gateway Extension</b></p> <ul style="list-style-type: none"> <li>• separated in a dedicated installation package</li> <li>• no longer part of the toolkit main installation package</li> </ul> <p><b>Demo Server</b></p> <ul style="list-style-type: none"> <li>• separated in a dedicated installation package</li> </ul>
V1.25.0	24.07.2014	<p><b>Toolkit Client API</b></p> <ul style="list-style-type: none"> <li>• New and easy to use toolkit API for client applications. Support for:</li> </ul>

		<p>connect, browse, read, write, method call, data changes, events Samples and documentation for the new Toolkit API</p> <p><b>Https transport protocol support for client and server</b></p> <ul style="list-style-type: none"> <li>• Binary and Xml encoding</li> </ul> <p><b>Complex data types handling</b></p> <ul style="list-style-type: none"> <li>• Handle the data types unknown to the client based on the information provided by the servers <b>Reorganized the namespaces of the libraries</b> The new names are:</li> <li>• Softing.Opc.Ua.Toolkit - Toolkit API</li> <li>• Softing.Opc.Ua.Sdk - SDK Core</li> <li>• Softing.Opc.Ua.Sdk.Client - SDK Client</li> <li>• Softing.Opc.Ua.Sdk.Server - SDK Server</li> <li>• Softing.Opc.Ua.Sdk.Configuration - SDK Configuration</li> </ul>
--	--	---

V1.20.0	14.02.2014	<p><b>Softing OPC Client updates</b></p> <ul style="list-style-type: none"> <li>• Method Call support</li> <li>• New icons</li> <li>• Improved performance</li> </ul> <p><b>Alarms&amp;Conditions support</b></p> <ul style="list-style-type: none"> <li>• Programming samples for Server and Client</li> <li>• Alarms included in Softing UA DemoServer application</li> <li>• Internal implementation of alarms triggering in ExclusiveLimitAlarmState class</li> <li>• ProcessVariableChanged method added in ConditionState class for allowing custom implementation of alarms</li> </ul> <p><b>Visual Studio 2012 and .NET Framework 4.5 support</b></p> <p><b>Windows 8, 8.1 and 2012 Server support</b></p>
V1.11.0	01.10.2013	<p><b>Softing OPC Client</b></p> <ul style="list-style-type: none"> <li>• New OPC UA generic client application that covers the basic UA functionalities:</li> <li>• Discovery</li> <li>• Session service set; supported protocols opc.tcp, http</li> <li>• Browse service set</li> <li>• Read, Write services</li> <li>• Monitored Item service set</li> <li>• Subscription service set</li> </ul> <p><b>Updates for OPC UA Specifications compliance</b></p> <ul style="list-style-type: none"> <li>• Updates for compliance to latest OPC UA specifications (version 1.02).</li> </ul>

V1.10.0	16.03.2013	<p><b>Classical OPC backwards compatibility</b> Classical OPC backwards compatibility provided using gateway applications:</p> <ul style="list-style-type: none"> <li>• UA Client Gateway - ensures the backwards compatibility between the Softing UA Client applications and the classical OPC server implementations for the DA protocol.</li> <li>• UA Server Gateway - ensures the backwards compatibility of the Softing UA Server applications with the classical OPC client implementations for the DA protocol.</li> <li>• Sample configuration applications for the UA gateway features.</li> <li>• Softing Classical OPC Demo Client and Demo Server applications included in setup.</li> </ul> <p><b>Updates for OPC UA Specifications compliance</b> OPC UA Specifications ver. 1.02 update:</p> <ul style="list-style-type: none"> <li>• Updates for compliance to latest OPC UA specifications (version 1.02).</li> </ul> <p><b>Documentation</b> New documentation articles for the following sections:</p> <ul style="list-style-type: none"> <li>• OPC UA Security model.</li> <li>• OPC UA Gateway features.</li> </ul>
V1.01.1	17.07.2012	<p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>• A documentation naming clean-up was performed.</li> </ul> <p><b>Bug-Fixes</b></p> <ul style="list-style-type: none"> <li>• Small setup related issue was fixed.</li> </ul>

V1.01.0	03.05.2012	<p><b>Historical Access</b></p> <p>Now Historical Access is supported by the Softing OPC UA .NET Toolkit. Both the client and the server support all the Historical Access features:</p> <ul style="list-style-type: none"> <li>• HistoryRead - ReadRawModified, ReadProcessed, ReadAtTime, Read Event, Read Annotations</li> <li>• HistoryUpdate <ul style="list-style-type: none"> <li>◦ Insert - raw data, annotations, events.</li> <li>◦ Replace - raw data, annotations, events.</li> <li>◦ Update - raw data, update/remove annotations, events.</li> <li>◦ DeleteRawModified - raw data, modified, annotations, events.</li> <li>◦ DeleteAtTime - raw data</li> </ul> </li> </ul> <p><b>Samples and Demo</b></p> <p>New samples describing the usage of the Historical Access for both client and server side:</p> <ul style="list-style-type: none"> <li>• Server - Historical Data and Events Access</li> <li>• Client - Historical Events Access</li> <li>• Client - Historical Data Access Extended the Demo applications:</li> <li>• Demo Server - added support for historical data and events access. Address space extended with the folder <i>Archive</i> containing the historical nodes.</li> <li>• Demo Client - added support for historical data access for all the his-</li> </ul>
---------	------------	---

		<p>torian operations.</p> <ul style="list-style-type: none"> <li>• Demo Client - added support for historical events access for: read events and delete events.</li> </ul> <p><b>Core features and fixes</b></p> <p>The following topics are improved:</p> <ul style="list-style-type: none"> <li>• Compliance and performance issues were addressed.</li> <li>• Trace mechanism: the trace mask has changed to hexadecimal format; the backwards compatibility is kept with the previous format.</li> <li>• Trace mechanism: added TraceEventHandler for every log message call.</li> <li>• New client user controls added for historical access: data and events.</li> <li>• CertificateGenerator.exe utility can be placed in the same folder as the application executable.</li> <li>• Fix: server side - save continuation points logic for maximum continuation points stored.</li> <li>• Fix: server side - synchronization fixes in the CustomNodeManager2 for the address space manipulation (adding and/or removing nodes from the address space).</li> <li>• Fix: server side - event monitored item fix when queue size equals to 1.</li> </ul> <p><b>Documentation</b></p> <p>New documentation articles for the following sections:</p> <ul style="list-style-type: none"> <li>• Deployment and security</li> <li>• Programmer's Guide - historical access</li> <li>• Programming Samples - historical access</li> </ul>
V1.00.0	31.12.2011	<b>Initial Version</b>