

OPC UA .NET SDK Release Notes

June 2021

Version	Date	Release Note
V1.48.0	18.06.2021	General Enhancements <ul style="list-style-type: none">• The fixes for the following cybersecurity vulnerabilities: CVE: 2021-27432.• The CreateInstanceFromType method from Node Set import Server sample was enhanced.• Bug fixes.
V1.47.0	15.11.2019	General Enhancements <ul style="list-style-type: none">• Sample code for loading password protected certificates.• Added support for Windows Server 2019.• Removed support for Windows 8, Windows 8.1 and Windows Server 2008 R2.• Removed dataFEED OPC UA Client and the Configuration Tool from installer.• Bug fixes.
V1.46.0	05.03.2019	General Enhancements <ul style="list-style-type: none">• Licensing mechanism update.• Bug fixes.

V1.45.0	31.10.2018	<p>General Enhancements</p> <ul style="list-style-type: none"> • Softing OPC UA .NET Toolkit was renamed to dataFEED OPC UA .NET Server & Client Software Development Kit. • Standard NodeSet files and generated code updated to 1.04 version of the OPC UA specifications. • Added Client and Server sample projects for FileTransfer functionality. • Added support for FindServersOnNetwork service call in Client library. • Added FindServers method in Client library decoupled from GetEndpoints. • Added support for user certificate validators in Server library. • Enhancements in ImportNodeSet functionality. • Updates for OPC UA 1.03 Specifications compliance in Server library. • Updates for OPC UA 1.03 Specifications compliance in Client library. • Bug fixes.
V1.44.0	02.02.2018	<p>General Enhancements</p> <ul style="list-style-type: none"> • Added support for Visual Studio 2017 and .NET Framework 4.7 • Added support for Windows Server 2016 operating system • Removed support for Visual Studio 2008 • Bug fixes
V1.43.0	07.07.2017	<p>General Enhancements</p> <ul style="list-style-type: none"> • Support for security policy Base256Sha256 • Adaptions and bug fixes for OPC UA 1.03 compliance
V1.41.0	15.12.2016	<p>General Enhancements</p> <ul style="list-style-type: none"> • Visual Studio 2015 support: Sample projects and solutions for Visual Studio 2015 and .NET Framework 4.6 • Support for Windows 10 operating system. • Log4net trace mechanism dependency is now optional • Generic bug-fixing and performance optimizations • Softing OPC UA client Application rebranded to Softing dataFEED OPC UA Client <p>Server Toolkit Enhancements</p>

		<ul style="list-style-type: none"> Standard NodeSet files and generated code updated to 1.03 version of the OPC UA specifications.
V1.40.0	20.09.2016	<p>Client Toolkit Enhancements</p> <ul style="list-style-type: none"> Support for TranslateBrowsePathToNodeIds service Support for HistoryRead service KeepAlive event added for Session class Support for MaxAge parameter in Read method <p>Server Toolkit Enhancements</p> <ul style="list-style-type: none"> Server support for importing NodeSet XML files <p>Various improvements and fixes according to customer feedback.</p>
V1.30.3	13.11.2015	<p>Client Toolkit, Client & Server Gateways Extensions</p> <ul style="list-style-type: none"> Various improvements and fixes according to customer feedback.
V1.30.0	01.07.2015	<p>General Enhancements</p> <ul style="list-style-type: none"> Visual Studio 2013 support: Sample projects and solutions for Visual Studio 2013 and .NET Framework 4.5.1 Generic bug-fixing and performance optimizations <p>Client Toolkit Enhancements</p> <p>Support for warm redundancy</p>
V1.27.1	06.02.2015	<p>Server & Client Toolkit</p> <ul style="list-style-type: none"> Adaptions and bug fixes for OPC UA 1.02 compliance API Break Changes due to logic simplifications and consequence for MonitoredItem, Subscription and Method classes: Async support for method call API <p>Client Gateway Extension</p> <ul style="list-style-type: none"> Projects upgraded to Visual Studio 2013 and .NET 4.5.1. Performance optimization for GetItemProperties. Support for syntax based items in the underlying DA Server.

		<p>Server Gateway Extension</p> <ul style="list-style-type: none"> Projects upgraded to Visual Studio 2013 and .NET 4.5.1.
V1.27.0	16.12.2014	<p>OPC Foundation's Lab certification was awarded for both the Server and the Client Toolkit functionalities</p> <ul style="list-style-type: none"> Adaptions for OPC UA 1.02 compliance
V1.26.1	18.11.2014	<p>Client Gateway Extension</p> <ul style="list-style-type: none"> Added advanced configurable mappings for custom OPC Classic qualities to OPC UA status codes
V1.26.0	12.09.2014	<p>Sample Applications</p> <ul style="list-style-type: none"> Client - New Tutorial Server - Sample cleanup Server - New Method Call Console Sample Server - New Data Access Sample <p>Documentation</p> <ul style="list-style-type: none"> was completely restructured and reorganized to provide an easy getting into <p>Softing OPC UA client</p> <ul style="list-style-type: none"> Events Complex data-types support Recorded the log of data-changes HTTPS support <p>Client Gateway Extension</p> <ul style="list-style-type: none"> separated in a dedicated installation package no longer part of the toolkit main installation package <p>Server Gateway Extension</p> <ul style="list-style-type: none"> separated in a dedicated installation package no longer part of the toolkit main installation package <p>Demo Server</p> <ul style="list-style-type: none"> separated in a dedicated installation package

V1.25.0	24.07.2014	<p>Toolkit Client API</p> <ul style="list-style-type: none"> • New and easy to use toolkit API for client applications. Support for: connect, browse, read, write, method call, data changes, events Samples and documentation for the new Toolkit API <p>Https transport protocol support for client and server</p> <ul style="list-style-type: none"> • Binary and Xml encoding <p>Complex data types handling</p> <ul style="list-style-type: none"> • Handle the data types unknown to the client based on the information provided by the servers Reorganized the namespaces of the libraries The new names are: <ul style="list-style-type: none"> • Softing.Opc.Ua.Toolkit - Toolkit API • Softing.Opc.Ua.Sdk - SDK Core • Softing.Opc.Ua.Sdk.Client - SDK Client • Softing.Opc.Ua.Sdk.Server - SDK Server <p>Softing.Opc.Ua.Sdk.Configuration - SDK Configuration</p>
V1.20.0	14.02.2014	<p>Softing OPC Client updates</p> <ul style="list-style-type: none"> • Method Call support • New icons • Improved performance <p>Alarms&Conditions support</p> <ul style="list-style-type: none"> • Programming samples for Server and Client • Alarms included in Softing UA DemoServer application • Internal implementation of alarms triggering in ExclusiveLimitAlarmState class • ProcessVariableChanged method added in ConditionState class for allowing custom implementation of alarms Visual Studio 2012 and .NET Framework 4.5 support <p>Windows 8, 8.1 and 2012 Server support</p>
V1.11.0	01.10.2013	<p>Softing OPC Client</p> <ul style="list-style-type: none"> • New OPC UA generic client application that covers the basic UA functionalities: • Discovery • Session service set; supported protocols opc.tcp, http • Browse service set • Read, Write services • Monitored Item service set • Subscription service set <p>Updates for OPC UA Specifications compliance</p> <ul style="list-style-type: none"> • Updates for compliance to latest OPC UA specifications (v1.02)

V1.10.0	16.03.2013	<p>Classical OPC backwards compatibility Classical OPC backwards compatibility provided using gateway applications:</p> <ul style="list-style-type: none"> • UA Client Gateway - ensures the backwards compatibility between the Softing UA Client applications and the classical OPC server implementations for the DA protocol. • UA Server Gateway - ensures the backwards compatibility of the Softing UA Server applications with the classical OPC client implementations for the DA protocol. • Sample configuration applications for the UA gateway features. • Softing Classical OPC Demo Client and Demo Server applications included in setup. <p>Updates for OPC UA Specifications compliance OPC UA Specifications ver. 1.02 update:</p> <ul style="list-style-type: none"> • Updates for compliance to latest OPC UA specifications (version 1.02). <p>Documentation New documentation articles for the following sections:</p> <ul style="list-style-type: none"> • OPC UA Security model. • OPC UA Gateway features.
V1.01.0	03.05.2012	<p>Historical Access 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"> • HistoryRead - ReadRawModified, ReadProcessed, ReadAtTime, Read Event, Read Annotations • HistoryUpdate <ul style="list-style-type: none"> ○ Insert - raw data, annotations, events. ○ Replace - raw data, annotations, events. ○ Update - raw data, update/remove annotations, events. ○ DeleteRawModified - raw data, modified, annotations, events. ○ DeleteAtTime - raw data <p>Samples and Demo New samples describing the usage of the Historical Access for both client and server side:</p> <ul style="list-style-type: none"> • Server - Historical Data and Events Access • Client - Historical Events Access • Client - Historical Data Access Extended the Demo applications: • Demo Server - added support for historical data and events access. Address space extended with the folder <i>Archive</i> containing the historical nodes. <p>Demo Client - added support for historical data access for all the his-</p>

<p>V1.01.0</p>	<p>03.05.2012</p>	<p>Historical Access 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"> • HistoryRead - ReadRawModified, ReadProcessed, ReadAtTime, Read Event, Read Annotations • HistoryUpdate <ul style="list-style-type: none"> ○ Insert - raw data, annotations, events. ○ Replace - raw data, annotations, events. ○ Update - raw data, update/remove annotations, events. ○ DeleteRawModified - raw data, modified, annotations, events. ○ DeleteAtTime - raw data <p>Samples and Demo New samples describing the usage of the Historical Access for both client and server side:</p> <ul style="list-style-type: none"> • Server - Historical Data and Events Access • Client - Historical Events Access • Client - Historical Data Access Extended the Demo applications: • Demo Server - added support for historical data and events access. Address space extended with the folder <i>Archive</i> containing the historical nodes. • Demo Client - added support for historical data access for all the historian operations. • Demo Client - added support for historical events access for: read events and delete events. Core features and fixes <p>The following topics are improved:</p> <ul style="list-style-type: none"> • Compliance and performance issues were addressed. • Trace mechanism: the trace mask has changed to hexadecimal format; the backwards compatibility is kept with the previous format. • Trace mechanism: added TraceEventHandler for every log message call. • New client user controls added for historical access: data and events. • CertificateGenerator.exe utility can be placed in the same folder as the application executable. • Fix: server side - save continuation points logic for maximum continuation points stored. • Fix: server side - synchronization fixes in the CustomNodeManager2 for the address space manipulation (adding and/or removing nodes from the address space). • Fix: server side - event monitored item fix when queue size equals to 1. <p>Documentation New documentation articles for the following sections:</p> <ul style="list-style-type: none"> • Deployment and security • Programmer's Guide - historical access • Programming Samples - historical access
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V1.00.0	31.12.2011	Initial Version
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