

Version	Date	Release Note
V2.60.0	16.10.2020	<p>- <b>dataFEED OPC UA .NET Standard SDK Server Library:</b></p> <ul style="list-style-type: none"> <li>• Support for reverse connectivity.</li> <li>• In <i>NodeManager</i> class: <ul style="list-style-type: none"> <li>- The <i>CreateObjectFromType()</i> and <i>CreateVariableFromType()</i> methods were enhanced with an additional parameter (<i>createOptionalProperties</i>) that specifies if the properties that have optional modelling rule are instantiated when creating an object/variable. Note that the types from OPC UA .NET Standard Stack from OPC Foundation will not create optional properties.</li> <li>- The <i>ReportEvent</i> method was enhanced to accept also the node id of the event type that will be reported.</li> </ul> </li> <li>• Bug fixes.</li> </ul> <p>- <b>dataFEED OPC UA .NET Standard SDK Client Library:</b></p> <ul style="list-style-type: none"> <li>• Support for reverse connectivity.</li> <li>• Asynchronously methods added for Connect (<i>ConnectAsync</i>), Disconnect (<i>DisconnectAsync</i>), GetEndpoints (<i>GetEndpointsAsync</i>), DiscoverServers (<i>DiscoverServersAsync</i>) and DiscoverServersOnNetwork (<i>DiscoverServersOnNetworkAsync</i>).</li> <li>• Bug fixes.</li> </ul> <p>- <b>dataFEED OPC UA .NET Standard SDK PubSub Library:</b></p> <ul style="list-style-type: none"> <li>• Bug fixes.</li> </ul>
V2.50.0	09.07.2020	<p>- <b>dataFEED OPC UA .NET Standard SDK Server Library:</b></p> <ul style="list-style-type: none"> <li>• Internal support for AccessRestrictions, RolePermissions and UserRolePermissions attributes.</li> <li>• Support for GDS and Push Management of application certificates and trust lists.</li> <li>• Bug fixes.</li> </ul> <p>- <b>dataFEED OPC UA .NET Standard SDK Client Library:</b></p> <ul style="list-style-type: none"> <li>• Support for GDS and Pull Management of application certificates and trust lists.</li> <li>• ReadNode method from <i>ClientSession</i> will not throw a <i>ServiceResultException</i> when the node is not found, but will return an instance of <i>VariableNodeEx</i>. Status codes for each attribute are available via <i>GetStatusCode()</i> method.</li> </ul>

		<ul style="list-style-type: none"> <li>• Bug fixes.</li> </ul> <p><b>- dataFEED OPC UA .NET Standard SDK PubSub Library:</b></p> <ul style="list-style-type: none"> <li>• Bug fixes.</li> </ul> <p>- .NET Framework support updated to version 4.6.2 in accordance with <i>OPC UA .NET Standard Stack from OPC Foundation</i> .</p> <p>- Support for Visual Studio 2015 was removed.</p> <p>SDK libraries are compiled using NuGet package OPCFoundation.NetStandard.Opc.Ua - version 1.4.362.42. When using dataFEED OPC UA .NET Standard SDK version 2.50 it is important to use the same version of OPC UA .NET Standard Stack from OPC Foundation.</p>
V2.40.0	26.02.2020	<p><b>- dataFEED OPC UA .NET Standard SDK Server Library:</b></p> <p>Support for creating custom DataType, VariableType and ObjectType nodes and instances</p> <p>Extended support for complex data types:</p> <ul style="list-style-type: none"> <li>• Support for custom <i>Structure, StructureWithOptionalFields, Union, Enumeration</i> and <i>OptionSet</i> types.</li> <li>• Expose <i>DataTypeDefinition</i> attribute of DataType nodes to allow clients to read custom data types.</li> <li>• Enhanced ImportNodeSet functionality for reading the <i>DataTypeDefinition</i> attribute of DataType nodes.</li> <li>• Sample code for creating and handling custom types.</li> </ul> <p>Support for creating custom variable and object types.</p> <p>Bug fixes.</p> <p>.NET Standard 1.4 support removed.</p> <p><b>- dataFEED OPC UA .NET Standard SDK Client Library:</b></p> <p>Extended support for complex data types:</p> <ul style="list-style-type: none"> <li>• Support for custom <i>Structure, StructureWithOptionalFields, Union, Enumeration</i> and <i>OptionSet</i> types.</li> <li>• Load server custom data types by reading the <i>DataTypeDefinition</i> attribute of DataType nodes for V1.04 servers.</li> <li>• Sample code for handling custom data types.</li> </ul> <p>Bug fixes.</p> <p>.NET Standard 1.4 support removed.</p> <p>Bug fixes.</p> <p>SDK libraries are compiled using NuGet package OPCFoundation.NetStandard.Opc.Ua - version 1.4.359.31. When using dataFEED OPC UA .NET Standard SDK version 2.40 it is important to use the same version of</p> <p><b>- dataFEED OPC UA .NET Standard SDK PubSub Library:</b></p> <p>OPC UA .NET Standard Stack from OPC Foundation.</p>
V2.30.0	06.08.2019	<p><b>- dataFEED OPC UA .NET Standard SDK PubSub Library:</b></p> <ul style="list-style-type: none"> <li>• Provides simplified API for configuring a PubSub application.</li> </ul>

		<p>SampleServer provides a new dedicated node manager that uses dataFEED OPC UA .NET Standard SDK PubSub Library and behaves like a Publisher and Subscriber.</p> <ul style="list-style-type: none"> <li>· Implemented PubSubState State Machine.</li> </ul> <p>Implemented <b>Unicast</b> and <b>Multicast</b> communication for <i>OPC UA UDP Transport Protocol</i>.</p> <ul style="list-style-type: none"> <li>· Changes in licensing namespaces:        In version 2.20 the <i>PubSub</i> licensing classes were part of <i>Softing.Opc.Ua.Private</i> namespace. Starting with version 2.30 the <i>PubSub</i> licensing classes are part of <i>Softing.Opc.Ua.PubSub</i> namespace. Please change your code to point to the new namespace.</li> </ul> <p><b>- dataFEED OPC UA .NET Standard SDK Server Library:</b></p> <ul style="list-style-type: none"> <li>· Bug fixes.</li> <li>· Changes in licensing namespaces:        In version 2.20 the <i>Server</i> licensing classes were part of <i>Softing.Opc.Ua.Private</i> namespace. Starting with version 2.30 the <i>Server</i> licensing classes are part of <i>Softing.Opc.Ua.Server</i> namespace. Please change your code to point to the new namespace.</li> </ul> <p><b>- dataFEED OPC UA .NET Standard SDK Client Library:</b></p> <ul style="list-style-type: none"> <li>· Bug fixes.</li> <li>· Changes in licensing namespaces:        In version 2.20 the <i>Client</i> licensing classes were part of <i>Softing.Opc.Ua.Private</i> namespace. Starting with version 2.30 the <i>Client</i> licensing classes are part of <i>Softing.Opc.Ua.Client</i> namespace. Please change your code to point to the new namespace.</li> </ul> <p>SDK libraries are compiled using NuGet package OPCFoundation.NetStandard.Opc.Ua - version 1.4.356.27. When using dataFEED OPC UA .NET Standard SDK version 2.30 it is important to use the same version of OPC UA .NET Standard Stack from OPC Foundation.</p>
V2.20.0	15.05.2019	<ul style="list-style-type: none"> <li>• The initial version of <b>dataFEED OPC UA .NET Standard SDK PubSub Library:</b> <ul style="list-style-type: none"> <li>○ Provides an API for simplified OPC UA Publisher and Subscriber development using UDP transport and binary encoded messages.</li> <li>○ Provides SamplePublisher and SampleSubscriber projects that use the simplified API from dataFEED OPC UA .NET Standard SDK PubSub Library.</li> </ul> </li> <li>• <b>dataFEED OPC UA .NET Standard SDK Server Library:</b> <ul style="list-style-type: none"> <li>○ Enhanced ImportNodeSet functionality that allows instantiating data types loaded from dictionaries.</li> <li>○ New method GetDefaultValueForDatatype was added to NodeManager. It creates and returns the default value for the specified data type , including data types imported from NodeSet2 XML files.</li> <li>○ Added support for Aes256_Sha256_RsaPss security policy.</li> </ul> </li> <li>• <b>dataFEED OPC UA .NET Standard SDK Client Library:</b></li> </ul>

		<ul style="list-style-type: none"> <li>○ ClientSession.KeepAlive handling was moved on a separate thread to avoid possible deadlocks.</li> </ul>
V2.10.0	06.02.2019	<ul style="list-style-type: none"> <li>• "Softing OPC UA .NET Standard Toolkit" was renamed to "dataFEED OPC UA .NET Standard SDK".</li> <li>• OPC UA Server Compliance Certification.</li> <li>• dataFEED OPC UA .NET Standard Server SDK Library: <ul style="list-style-type: none"> <li>○ Enhanced ImportNodeSet functionality that handles duplicate nodes.</li> <li>○ Added Export NodeSet functionality.</li> <li>○ Added create instance from OPC UA type specified by Nodeld functionality.</li> <li>○ Added sample code for file transfer.</li> <li>○ Added sample code for temporary file transfer.</li> </ul> </li> <li>• Added support for Aes128_Sha256_RsaOaep security policy.</li> <li>• Removed Windows 8.1 support due to known security limitations incompatible with dataFEED OPC UA .NET Standard SDK implementation.</li> <li>• Properties marked as deprecated in ServerToolkitConfiguration.</li> </ul>
V2.00.0	31.07.2018	<p><b>Softing Client Toolkit Library:</b></p> <p>Dll name was changed from Softing.Opc.Ua.dll to Softing.Opc.Ua.Client.dll.</p> <p>Namespace changes:</p> <ul style="list-style-type: none"> <li>• All entities from namespace Softing.Opc.Ua were moved to namespace Softing.Opc.Ua.Client (SecurityPolicy enum, ToolkitUtils and UaApplication classes)</li> <li>• All entities from namespace Softing.Opc.Ua.Private were moved to Softing.Opc.Ua.Client.Private (License class and LicenseFeature enum)</li> <li>• All entities from namespace Softing.Opc.Ua.Types were moved to Softing.Opc.Ua.Client.Types.</li> <li>• ApplicationConfigurationEx class available in version 1.00 and 1.10 in namespace Softing.Opc.Ua was removed. We are using the ApplicationConfiguration class available in OPC UA .NET Standard Stack from OPC Foundation . A new configuration class ClientToolkitConfiguration was added to the Softing Client Toolkit Library, it is used as a configuration extension as described in Client configuration section.</li> </ul> <p>New method added to ClientSubscription class. ConditionRefresh method tells the server to refresh all conditions (alarms) being monitored by the subscription.</p> <p><b>Softing Server Toolkit Library - initial version:</b></p> <ul style="list-style-type: none"> <li>• Provides an API for simplified server development. The Softing Server</li> <li>• Toolkit Library offers a simplified approach for Data Access, Methods and Standard Event Subscriptions</li> </ul> <p>SampleServer and XamarinSampleServer are refactored to use the new Softing Server Toolkit Library (Softing.Opc.Ua.Server.dll).</p>

V2.00.0	31.07.2018	<p><b>Softing Client Toolkit Library:</b></p> <p>Dll name was changed from Softing.Opc.Ua.dll to Softing.Opc.Ua.Client.dll.</p> <p>Namespace changes:</p> <ul style="list-style-type: none"> <li>• All entities from namespace Softing.Opc.Ua were moved to namespace Softing.Opc.Ua.Client (SecurityPolicy enum, ToolkitUtils and UaApplication classes)</li> <li>• All entities from namespace Softing.Opc.Ua.Private were moved to Softing.Opc.Ua.Client.Private (License class and LicenseFeature enum)</li> <li>• All entities from namespace Softing.Opc.Ua.Types were moved to Softing.Opc.Ua.Client.Types.</li> <li>• ApplicationConfigurationEx class available in version 1.00 and 1.10 in namespace Softing.Opc.Ua was removed. We are using the ApplicationConfiguration class available in OPC UA .NET Standard Stack from OPC Foundation . A new configuration class ClientToolkitConfiguration was added to the Softing Client Toolkit Library, it is used as a configuration extension as described in Client configuration section.</li> </ul> <p>New method added to ClientSubscription class. ConditionRefresh method tells the server to refresh all conditions (alarms) being monitored by the subscription.</p> <p><b>Softing Server Toolkit Library - initial version:</b></p> <ul style="list-style-type: none"> <li>• Provides an API for simplified server development. The Softing Server Toolkit Library offers a simplified approach for Data Access, Methods and Standard Event Subscriptions</li> <li>• SampleServer and XamarinSampleServer are refactored to use the new Softing Server Toolkit Library (Softing.Opc.Ua.Server.dll).</li> </ul>
V1.10.0	13.04.2017	<ul style="list-style-type: none"> <li>• Added support for Linux distributions. Ubuntu 16.04 and Debian 9.30.</li> <li>• Added support for Android. Sample Client and Sample Server for Android implemented with Xamarin Forms were added in the samples folder.</li> </ul>
V1.00.0	31.12.2017	<ul style="list-style-type: none"> <li>• Initial Version</li> </ul>