

Version	Date	Release Note
V2.70.0	05.02.2021	<p>- dataFEED OPC UA .NET Standard SDK Server Library:</p> <ul style="list-style-type: none"> • Include the Amendment OPC 10001-13: Ordered List. • Import NodeSet2 XML sets the Parent node for nodes that have ParentNodeId property. • The XamarinSampleServer target android version was upgraded to version 9.0 (Pie). • Bug fixes. <p>- dataFEED OPC UA .NET Standard SDK Client Library:</p> <ul style="list-style-type: none"> • Support for Register and Unregister Nodes. • The XamarinSampleClient target android version was upgraded to version 9.0 (Pie). • Bug fixes. <p>- dataFEED OPC UA .NET Standard SDK PubSub Library:</p> <ul style="list-style-type: none"> • Bug fixes. <p>- Support for VisualStudio 2019. SDK libraries are compiled using NuGet package OPCFoundation.NetStandard.Opc.Ua - version 1.4.364.40. When using dataFEED OPC UA .NET Standard SDK version 2.70 it is important to use the same version of OPC UA .NET Standard Stack from OPC Foundation.</p>
V2.60.0	16.10.2020	<p>- dataFEED OPC UA .NET Standard SDK Server Library:</p> <ul style="list-style-type: none"> • Support for reverse connectivity. • In <i>NodeManager</i> class: <ul style="list-style-type: none"> - 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. - The <i>ReportEvent</i> method was enhanced to accept also the node id of the event type that will be reported. • Bug fixes. <p>- dataFEED OPC UA .NET Standard SDK Client Library:</p> <ul style="list-style-type: none"> • Support for reverse connectivity. • Asynchronously methods added for Connect (<i>ConnectAsync</i>), Disconnect (<i>DisconnectAsync</i>), GetEndpoints (<i>GetEndpointsAsync</i>), DiscoverServers

		<p>(<i>DiscoverServersAsync</i>) and <i>DiscoverServersOnNetwork</i> (<i>DiscoverServersOnNetworkAsync</i>).</p> <ul style="list-style-type: none"> • Bug fixes. <p>- dataFEED OPC UA .NET Standard SDK PubSub Library:</p> <ul style="list-style-type: none"> • Bug fixes. <p>SDK libraries are compiled using the NuGet package <i>OPCFoundation.NetStandard.Opc.Ua</i> - version 1.4.363.49. When using <i>dataFEED OPC UA .NET Standard SDK</i> version 2.60 it is important to use the same version of <i>OPC UA .NET Standard Stack</i> from OPC Foundation.</p>
V2.50.0	09.07.2020	<p>- dataFEED OPC UA .NET Standard SDK Server Library:</p> <ul style="list-style-type: none"> • Internal support for <i>AccessRestrictions</i>, <i>RolePermissions</i> and <i>UserRolePermissions</i> attributes. • Support for GDS and Push Management of application certificates and trust lists. • Bug fixes. <p>- dataFEED OPC UA .NET Standard SDK Client Library:</p> <ul style="list-style-type: none"> • Support for GDS and Pull Management of application certificates and trust lists. • <i>ReadNode</i> 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. • Bug fixes. <p>- dataFEED OPC UA .NET Standard SDK PubSub Library:</p> <ul style="list-style-type: none"> • Bug fixes. <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 <i>OPCFoundation.NetStandard.Opc.Ua</i> - version 1.4.362.42. When using <i>dataFEED OPC UA .NET Standard SDK</i> version 2.50 it is important to use the same version of <i>OPC UA .NET Standard Stack</i> from OPC Foundation.</p>
V2.40.0	26.02.2020	<p>- dataFEED OPC UA .NET Standard SDK Server Library:</p> <p>Support for creating custom <i>DataType</i>, <i>VariableType</i> and <i>ObjectType</i> nodes and instances</p> <p>Extended support for complex data types:</p> <ul style="list-style-type: none"> • Support for custom <i>Structure</i>, <i>StructureWithOptionalFields</i>, <i>Union</i>, <i>Enumeration</i> and <i>OptionSet</i> types. • Expose <i>DataTypeDefinition</i> attribute of <i>DataType</i> nodes to allow clients to read custom data types. • Enhanced <i>ImportNodeSet</i> functionality for reading the <i>DataTypeDefinition</i> attribute of <i>DataType</i> nodes.

		<ul style="list-style-type: none"> • Sample code for creating and handling custom types. <p>Support for creating custom variable and object types. Bug fixes. .NET Standard 1.4 support removed.</p> <p>- dataFEED OPC UA .NET Standard SDK Client Library:</p> <p>Extended support for complex data types:</p> <ul style="list-style-type: none"> • Support for custom <i>Structure</i>, <i>StructureWithOptionalFields</i>, <i>Union</i>, <i>Enumeration</i> and <i>OptionSet</i> types. • Load server custom data types by reading the <i>DataTypeDefinition</i> attribute of <i>DataType</i> nodes for V1.04 servers. • Sample code for handling custom data types. • Bug fixes <p>.NET Standard 1.4 support removed.</p> <p>- dataFEED OPC UA .NET Standard SDK PubSub Library:</p> <ul style="list-style-type: none"> • Bug fixes <p>SDK libraries are compiled using the 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 OPC UA .NET Standard Stack from OPC Foundation.</p>
V2.30.0	06.08.2019	<p>- dataFEED OPC UA .NET Standard SDK PubSub Library:</p> <ul style="list-style-type: none"> • Provides simplified API for configuring a PubSub application. SampleServer provides a new dedicated node manager that uses dataFEED OPC UA .NET Standard SDK PubSub Library and behaves like a Publisher and Subscriber. • Implemented PubSubState State Machine. Implemented Unicast and Multicast communication for <i>OPC UA UDP Transport Protocol</i>. • 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. <p>- dataFEED OPC UA .NET Standard SDK Server Library:</p> <ul style="list-style-type: none"> • Bug fixes. • 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. <p>- dataFEED OPC UA .NET Standard SDK Client Library:</p> <ul style="list-style-type: none"> • Bug fixes. • 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

		<p><i>Softing.Opc.Ua.Client</i> namespace. Please change your code to point to the new namespace.</p> <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"> • The initial version of dataFEED OPC UA .NET Standard SDK PubSub Library: <ul style="list-style-type: none"> ○ Provides an API for simplified OPC UA Publisher and Subscriber development using UDP transport and binary encoded messages. ○ Provides SamplePublisher and SampleSubscriber projects that use the simplified API from dataFEED OPC UA .NET Standard SDK PubSub Library. • dataFEED OPC UA .NET Standard SDK Server Library: <ul style="list-style-type: none"> ○ Enhanced ImportNodeSet functionality that allows instantiating data types loaded from dictionaries. ○ 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. ○ Added support for Aes256_Sha256_RsaPss security policy. • dataFEED OPC UA .NET Standard SDK Client Library: <ul style="list-style-type: none"> ○ ClientSession.KeepAlive handling was moved on a separate thread to avoid possible deadlocks.
V2.10.0	06.02.2019	<ul style="list-style-type: none"> • "Softing OPC UA .NET Standard Toolkit" was renamed to "dataFEED OPC UA .NET Standard SDK". • OPC UA Server Compliance Certification. • dataFEED OPC UA .NET Standard Server SDK Library: <ul style="list-style-type: none"> ○ Enhanced ImportNodeSet functionality that handles duplicate nodes. ○ Added Export NodeSet functionality. ○ Added create instance from OPC UA type specified by Nodeld functionality. ○ Added sample code for file transfer. ○ Added sample code for temporary file transfer. • Added support for Aes128_Sha256_RsaOaep security policy. • Removed Windows 8.1 support due to known security limitations incompatible with dataFEED OPC UA .NET Standard SDK implementation. • Properties marked as deprecated in ServerToolkitConfiguration.

V2.00.0	31.07.2018	<p>Softing Client Toolkit Library:</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"> • All entities from namespace Softing.Opc.Ua were moved to namespace Softing.Opc.Ua.Client (SecurityPolicy enum, ToolkitUtils and UaApplication classes) • All entities from namespace Softing.Opc.Ua.Private were moved to Softing.Opc.Ua.Client.Private (License class and LicenseFeature enum) • All entities from namespace Softing.Opc.Ua.Types were moved to Softing.Opc.Ua.Client.Types. • 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. <p>New method added to ClientSubscription class. ConditionRefresh method tells the server to refresh all conditions (alarms) being monitored by the subscription.</p> <p>Softing Server Toolkit Library - initial version:</p> <ul style="list-style-type: none"> • Provides an API for simplified server development. The Softing Server Toolkit Library offers a simplified approach for Data Access, Methods and Standard Event Subscriptions <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>Softing Client Toolkit Library:</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"> • All entities from namespace Softing.Opc.Ua were moved to namespace Softing.Opc.Ua.Client (SecurityPolicy enum, ToolkitUtils and UaApplication classes) • All entities from namespace Softing.Opc.Ua.Private were moved to Softing.Opc.Ua.Client.Private (License class and LicenseFeature enum) • All entities from namespace Softing.Opc.Ua.Types were moved to Softing.Opc.Ua.Client.Types. • 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. <p>New method added to ClientSubscription class. ConditionRefresh method tells the server to refresh all conditions (alarms) being monitored by the subscription.</p> <p>Softing Server Toolkit Library - initial version:</p>

		<ul style="list-style-type: none"> • Provides an API for simplified server development. The Softing Server • Toolkit Library offers a simplified approach for Data Access, Methods and Standard Event Subscriptions • SampleServer and XamarinSampleServer are refactored to use the new Softing Server Toolkit Library (Softing.Opc.Ua.Server.dll).
V1.10.0	13.04.2017	<ul style="list-style-type: none"> • Added support for Linux distributions. Ubuntu 16.04 and Debian 9.30. • Added support for Android. Sample Client and Sample Server for Android implemented with Xamarin Forms were added in the samples folder.
V1.00.0	31.12.2017	<ul style="list-style-type: none"> • Initial Version