

# OPC UA Client .NET

## Multi-Platform OPC UA Client Development

### OPC Unified Architecture

OPC Unified Architecture (UA) is a platform-independent standard through which various kinds of systems and devices can communicate by sending Messages between Clients and Servers over various types of networks.

### Features

Clients are fully compliant to OPC UA 1.00/1.01/1.02/1.03 and 1.04.

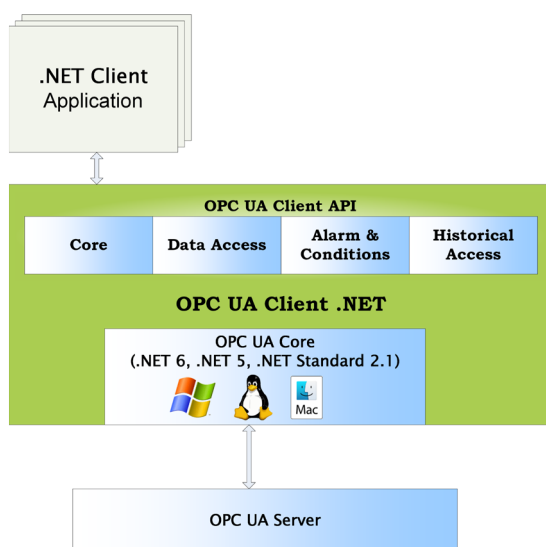
Supports Windows 8.1/10 (including embedded/IoT Editions).

Supports Linux.

Supports macOS.

Easy to understand and well documented sample clients show how to use the API.

## Time to Adapt!



➤ Fast and easy access to the OPC Unified Architecture (UA) technology.

➤ Develop OPC UA 1.00, 1.01, 1.02, 1.03 and 1.04 compliant Clients.

➤ Create royalty free OPC UA Client applications.

If your application requires access to the OPC technology you have to decide which of the OPC Specifications you want to support. The decision depends on many factors like the used OPC specifications supported by third party products or the system architecture you want to use. Technosoftware GmbH is specialized in software consulting and development services for technical and industrial applications based on OPC and the founder of Technosoftware GmbH was involved in the design and development of many software products with OPC connectivity with more than 25 years extensive knowledge about OPC.

The OPC Unified Architecture (UA) is THE next generation OPC standard that provides a cohesive, secure and reliable cross platform framework for access to real time and historical data and events.

It's Time to Adapt this specification for use in your applications and we recommend considering designing your application to use the OPC Unified Architecture.

We recommend considering designing your application to use the OPC Unified Architecture in the first place by using our **OPC UA Client .NET** toolkit which allows development of client applications supporting OPC UA.



For more information on any of our products or services please visit us on the Web at:  
<https://technosoftware.com>

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## Features and Benefits

The **OPC UA Client .NET** offers a fast and easy access to the OPC Unified Architecture (UA) technology. Develop OPC UA compliant Clients with C# targeting .NET 6.0, .NET 5.0, .NET Core 3.1 or .NET Standard 2.1. For backward compatibility we also provide .NET 4.8, .NET 4.7.2 and .NET 4.6.2 support.

.NET 6 and .NET Standard allows you develop applications that run on all common platforms available today, including Linux, macOS and Windows 8.1/10 (including embedded/IoT editions) without requiring platform-specific modifications.

The **OPC UA Client .NET** API defines classes which can be used to implement an OPC client capable to access OPC servers supporting different profiles with the same API. These classes manage client side state information; provide higher level abstractions for OPC tasks such as managing sessions and subscriptions or saving and restoring connection information for later use.

List of available NuGet packages:

- [Technosoftware.UaSolution.UaClient](#)  
Targeting .NET 6.0, .NET 5.0, .NET Core 3.1 or .NET Standard 2.1. Also supported are .NET 4.8, .NET 4.7.2 and .NET 4.6.2.

### Operating Systems

Windows:

- Client 10 V. 1607+
- Client 8.1
- Server 2012 R2+
- Nano Server V. 1809+

Linux:

- Alpine Linux 3.11+
- CentOS 7+
- Debian 9+
- Fedora 32+
- Linux Mint 18+
- openSUSE 15+
- Red Hat Enterprise 7+
- SUSE Enterprise 12 SP2+

macOS 10.13+

### .NET Support

.NET 6.0  
.NET 5.0  
.NET Core 3.1  
.NET Standard 2.1

.NET 4.8  
.NET 4.7.2  
.NET 4.6.2

### Available on GitHub

<https://github.com/technosoftware-gmbh/opcu-solution-net-samples>



## Supported OPC UA Profiles

- AddressSpace Lookup Client Facet
- Attribute Read Client Facet
- Attribute Write Client Facet
- Base Client Behaviour Facet
- Core Client Facet
- DataAccess Client Facet
- DataChange Subscriber Client Facet
- Discovery Client Facet
- Event Subscriber Client Facet
- Historical Access
- Alarms&Conditions

For more information on any of our products or services please visit us on the Web at:

<https://technosoftware.com>

### Included

Software may be used within Licensee's organization at the location specified by multiple developers.

Updates and fixes are delivered [here](#) free of charge, if/when they are made available.

### Not Included

For technical support requests you need to purchase a [OPC UA Support Subscription](#) in advance.

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