

OpcClientKeepAlive Members

Namespace: Opc.UaFx.Client

Assemblies: Opc.UaFx.Advanced.dll, Opc.UaFx.Advanced.dll

The [OpcClientKeepAlive](#) type exposes the following members.

Fields

DefaultInterval

Represents the default interval value that is used by the [OpcClientKeepAlive](#) as initial value of the [Interval](#) property.

C#

```
public static readonly int DefaultInterval
```

Field Value

[Int32](#)

Events

Updated

Occurs when a keep alive cycle completed and therefore the [ServerState](#), [Time](#), [Exception](#) and [Status](#) properties were updated accordingly.

C#

```
public event EventHandler Updated
```

Remarks

In general this event is raised whenever a keep alive period elapses (see [Interval](#)) or an abnormal connection state is detected.

Properties

Exception

Gets the exception information associated with the [Status](#) represented by the current [OpcClientKeepAlive](#).

C#

```
public OpcException Exception { get; }
```

Property Value

OpcException

An instance of the [OpcException](#) class in case there the [IsBad](#) is equals true for the [Status](#) offered; otherwise a null reference (Nothing in Visual Basic).

Interval

Gets or sets the interval to control the period within the client shall “ping” the server to test (= keep alive) whether the connection is still established and working.

C#

```
public int Interval { get; set; }
```

Property Value

Int32

The number of milliseconds used to “ping” / test the connection. The default value is [DefaultInterval](#).

Remarks

This interval controls how much time elapses before a communication error is detected. In case there is no abnormality detected the [Updated](#) event is raised each time this period elapses.

IsActive

Gets a value indicating whether the keep alive mechanism is active and works on a healthy and established connection.

C#

```
public bool IsActive { get; }
```

Property Value

Boolean

The value true if the keep alive is mechanism is active; otherwise the value false.

Message

Gets a value which describes the most recent outcome of the keep alive mechanism.

C#

```
public string Message { get; }
```

Property Value

String

A [String](#) which either offers the textual representation of the [Code](#) of the [Status](#) (if [IsBad](#) of [Status](#) is equals false) or the [Message](#) (alternatively the [Description](#) of the [Status](#)) in case there [IsBad](#) of [Status](#) is equals true.

ServerState

Gets a value indicating the most recent known state of the server.

C#

```
public OpcServerState ServerState { get; }
```

Property Value

OpcServerState

One of the members defined by the [OpcServerState](#) enumeration.

Remarks

The value of this property is determined during the keep alive progress and represents the value published by the server using the value of the node known under the browse path '/Server/ServerStatus/State'.

Status

Gets the status information associated with the most recent outcome of the keep alive operation.

C#

```
public OpcStatus Status { get; }
```

Property Value

OpcStatus

An instance of the [OpcStatus](#) class which offers additional information about the outcome of the most recent keep alive operation.

Time

Gets the time at which the server did respond on the most recent sent keep alive message.

C#

```
public DateTime? Time { get; }
```

Property Value

Nullable<DateTime>

The [DateTime](#) at which the server did respond to the most recent keep alive request or a null reference (Nothing in Visual Basic) if there is no connection established to a server.

Methods

OnUpdated(EventArgs)

Raises the [Updated](#) event of the [OpcClientKeepAlive](#).

C#

```
protected virtual void OnUpdated(EventArgs e)
```

Parameters

e [EventArgs](#)

The event data.

ToString()

Returns a string representing the most recent [Time](#) and [Message](#) offered by the most recent keep alive operation.

C#

```
public override string ToString()
```

Returns

[String](#)

A string formatted using the [CultureInfo.InvariantCulture](#) representing the [Time](#) and [Message](#) of the current [OpcClientKeepAlive](#).

ToString(IFormatProvider)

Returns a string representing the most recent [Time](#) and [Message](#) offered by the most recent keep alive operation formatted using the [provider](#) specified.

C#

```
public string ToString(IFormatProvider provider)
```

Parameters

provider [IFormatProvider](#)

The [IFormatProvider](#) to use to format the [Time](#).

Returns

[String](#)

A string formatted using the **provider** specified representing the [Time](#) and [Message](#) of the current [OpcClientKeepAlive](#).

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