

# OpcSecurityPolicy Members

**Namespace:** Opc.UaFx

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

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

## Constructors

### OpcSecurityPolicy(OpcSecurityMode)

Initializes a new instance of the [OpcSecurityPolicy](#) class using the `mode` specified to determine the according [Uri](#) and [Algorithm](#) of the configuration to represent.

**C#**

```
public OpcSecurityPolicy(OpcSecurityMode mode)
```

#### Parameters

`mode` [OpcSecurityMode](#)

One of the [OpcSecurityMode](#) members to define the mechanisms to secure the message exchange.

### OpcSecurityPolicy(OpcSecurityMode, OpcSecurityAlgorithm)

Initializes a new instance of the [OpcSecurityPolicy](#) class using the `mode` and `algorithm` specified to determine the according [Uri](#) of the configuration to represent.

**C#**

```
public OpcSecurityPolicy(OpcSecurityMode mode, OpcSecurityAlgorithm algorithm)
```

#### Parameters

`mode` [OpcSecurityMode](#)

One of the [OpcSecurityMode](#) members to define the mechanisms to secure the message exchange.

`algorithm` [OpcSecurityAlgorithm](#)

One of the [OpcSecurityAlgorithm](#) members to define the algorithm to use for signing and message encryption (depending on the `mode` specified). Using the algorithm [Auto](#) results into an automatically determined value of the [Algorithm](#) property considering the `mode` specified. The [Algorithm](#) is set to [None](#) in case of the algorithm [Custom](#) is used.

# OpcSecurityPolicy(OpcSecurityMode, Uri)

Initializes a new instance of the [OpcSecurityPolicy](#) class using the `mode` and `uri` specified.

**C#**

```
public OpcSecurityPolicy(OpcSecurityMode mode, Uri uri)
```

## Parameters

`mode` [OpcSecurityMode](#)

One of the [OpcSecurityMode](#) members to define the mechanisms to secure the message exchange.

`uri` [Uri](#)

The absolute URI of the security policy configuration to use which identifies the [Algorithm](#) to use for signing and message encryption (depending on the `mode` specified).

## Exceptions

[ArgumentNullException](#)

The `uri` is a null reference (Nothing in Visual Basic).

# Fields

## BaseUri

Provides the base URI used by all security policies to refer to the according [OpcSecurityAlgorithm](#) they use.

**C#**

```
public static readonly Uri BaseUri
```

## Field Value

[Uri](#)

# Properties

## Algorithm

Gets the [OpcSecurityAlgorithm](#) used to encrypt messages using the current [OpcSecurityPolicy](#) configuration.

**C#**

```
public OpcSecurityAlgorithm Algorithm { get; }
```

## Property Value

### OpcSecurityAlgorithm

One of the members defined by the [OpcSecurityAlgorithm](#) enumeration or [Custom](#) in case there [Uri](#) does not refer to a known algorithm.

## Level

Gets an ordinal value to order and classify the current [OpcSecurityPolicy](#) accordingly to others and their security configuration.

### C#

```
public int Level { get; }
```

## Property Value

### Int32

A positive [Int32](#) to identify the most secure policy. The policy with the highest [Level](#) is also the most secure.

## Mode

Gets the mechanism used to secure the message exchange using the current [OpcSecurityPolicy](#) configuration.

### C#

```
public OpcSecurityMode Mode { get; }
```

## Property Value

### OpcSecurityMode

One of the members defined by the [OpcSecurityMode](#) enumeration. The value [Invalid](#) in case of an invalid [OpcSecurityPolicy](#) configuration.

## Uri

Gets the URI which expresses the [Algorithm](#) used for message encryption using the current [OpcSecurityPolicy](#) configuration.

### C#

```
public Uri Uri { get; }
```

## Property Value

### Uri

An instance of the [Uri](#) class which identifies the [Algorithm](#) used for message encryption.

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