

OpcCertificateManager Members

Namespace: Opc.UaFx

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

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

Events

QueryInstance

Occurs when a [Cryptography.X509Certificates.X509Certificate2](#) instance is to be created using several certificate and key information. This event can be used to create new [Cryptography.X509Certificates.X509Certificate2](#) instances while considering custom, platform and operating system related restrictions.

C#

```
public static event OpcCertificateQueryInstanceEventHandler QueryInstance
```

Methods

CreateCertificate(IOpcApplicationInstance)

Creates a new application instance certificate (in memory) using the application [instance](#) specified.

C#

```
[CLSCompliant(false)]  
public static X509Certificate2 CreateCertificate(IOpcApplicationInstance instance)
```

Parameters

[instance](#) [IOpcApplicationInstance](#)

An instance implementing the [IOpcApplicationInstance](#) interface from that the necessary certificate information is retrieved to create the certificate.

Returns

[Cryptography.X509Certificates.X509Certificate2](#)

A new instance of the [Cryptography.X509Certificates.X509Certificate2](#) class representing the newly created certificate using the application instance information provided by [instance](#).

Exceptions

ArgumentNullException

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

CreateCertificate(IOpcApplicationInstance, OpcCertificateStoreInfo)

Creates a new application instance certificate using the `instance` specified, while the created certificate will be stored in the certificate store defined by `store`.

C#

```
[CLSCompliant(false)]  
public static X509Certificate2 CreateCertificate(IOpcApplicationInstance instance,  
OpcCertificateStoreInfo store)
```

Parameters

`instance` [IOpcApplicationInstance](#)

An instance implementing the [IOpcApplicationInstance](#) interface from that the necessary certificate information is retrieved to create the certificate.

`store` [OpcCertificateStoreInfo](#)

The [OpcCertificateStoreInfo](#) of the certificate store to that the newly created certificate is to be added or a null reference (Nothing in Visual Basic) in case there the certificate is to be created in memory.

Returns

[Cryptography.X509Certificates.X509Certificate2](#)

A new instance of the [Cryptography.X509Certificates.X509Certificate2](#) class representing the newly created certificate using the application instance information provided by `instance`.

Exceptions

[ArgumentNullException](#)

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

CreateCertificate(OpcCertificateSettings)

Creates a new application instance certificate (in memory) using the certificate `settings` specified.

C#

```
public static X509Certificate2 CreateCertificate(OpcCertificateSettings settings)
```

Parameters

settings OpcCertificateSettings

The [OpcCertificateSettings](#) to use to create the certificate.

Returns

[Cryptography.X509Certificates.X509Certificate2](#)

A new instance of the [Cryptography.X509Certificates.X509Certificate2](#) class representing the newly created certificate using certificate settings specified.

Exceptions

[ArgumentNullException](#)

The [settings](#) is a null reference (Nothing in Visual Basic).

CreateCertificate(OpcCertificateSettings, OpcCertificateStoreInfo)

Creates a new application instance certificate using the certificate [settings](#) specified, while the created certificate will be stored in the certificate store defined by [store](#).

C#

```
public static X509Certificate2 CreateCertificate(OpcCertificateSettings settings,
OpcCertificateStoreInfo store)
```

Parameters

[settings](#) OpcCertificateSettings

The [OpcCertificateSettings](#) to use to create the certificate.

[store](#) OpcCertificateStoreInfo

The [OpcCertificateStoreInfo](#) of the certificate store to that the newly created certificate is to be added or a null reference (Nothing in Visual Basic) in case there the certificate is to be created in memory.

Returns

[Cryptography.X509Certificates.X509Certificate2](#)

A new instance of the [Cryptography.X509Certificates.X509Certificate2](#) class representing the newly created certificate using certificate settings specified.

Exceptions

[ArgumentNullException](#)

The [settings](#) is a null reference (Nothing in Visual Basic).

LoadCertificate(String)

Loads the application instance certificate using the certificate file specified by `filePath`.

C#

```
public static X509Certificate2 LoadCertificate(string filePath)
```

Parameters

`filePath` String

The file path of the certificate file to load.

Returns

Cryptography.X509Certificates.X509Certificate2

A new instance of the `Cryptography.X509Certificates.X509Certificate2` class representing the certificate specified by `filePath`.

Exceptions

ArgumentException

The `filePath` is an empty string.

ArgumentNullException

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

FileNotFoundException

The certificate file specified by `filePath` could not found.

LoadCertificate(String, String)

Loads the application instance certificate using the certificate file specified by `filePath`.

C#

```
public static X509Certificate2 LoadCertificate(string filePath, string password)
```

Parameters

`filePath` String

The file path of the certificate file load.

`password` String

The optional password required to access the certificate or a null reference (Nothing in Visual Basic), if there is no password required by the certificate file.

Returns

Cryptography.X509Certificates.X509Certificate2

A new instance of the [Cryptography.X509Certificates.X509Certificate2](#) class representing the certificate specified by `filePath`.

Exceptions

ArgumentException

The `filePath` is an empty string.

ArgumentNullException

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

FileNotFoundException

The certificate file specified by `filePath` could not found.

SaveCertificate(String, X509Certificate2)

Saves the application instance `certificate` to the `filePath` specified.

C#

```
public static void SaveCertificate(string filePath, X509Certificate2 certificate)
```

Parameters

filePath String

The full qualified path to the certificate file to write.

certificate Cryptography.X509Certificates.X509Certificate2

The [Cryptography.X509Certificates.X509Certificate2](#) instance its certificate information is to be written to the `filePath`.

Exceptions

ArgumentNullException

The `filePath` or `certificate` is a null reference (Nothing in Visual Basic).

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