



# Ocf Client (OcfApi)

Cheat Sheet – 2013 sp1

## Ocf clients for Embedded



Create a client for embedded system (UDP)

Prototype:

```
public static dynamic CreateOcfEmbeddedUdpClient(
    string hostName, int port, int timeout);
```

Sample:

```
dynamic client = OcfApi.CreateOcfWcfClient(
    "127.0.0.1", 10000, 200);
```

Create a client for embedded system (COM)

Prototype:

```
public static dynamic CreateOcfEmbeddedComClient(
    string portName, SerialDataBaudRate rate, int timeout,
    SerialDataLength length = SerialDataLength.DL8, Handshake
    handShake = Handshake.None, Parity parity = Parity.None,
    StopBits stopBits = StopBits.One);
```

Sample:

```
dynamic client = OcfApi.CreateOcfEmbeddedComClient("COM5",
    SerialDataBaudRate.BR19200, 1000);
```

## Ocf clients for .NET



Create a native client for .NET application

Prototype (Udp):

```
public static dynamic CreateOcfNativeUdpClient(string
    hostName, int port, int timeout);
```

Prototype (Tcp):

```
public static dynamic CreateOcfNativeTcpClient(string
    hostName, int port, int timeout);
```

Create a secure native client for .NET application (communication with AES encryption)

Prototype (Udp):

```
public static dynamic CreateOcfNativeUdpEncryptedClient(
    string hostName, int port, string passphrase, int timeout);
```

Prototype (Tcp):

```
public static dynamic CreateOcfNativeTcpEncryptedClient(
    string hostName, int port, string passphrase, int timeout);
```

## Ocf clients for ADS PLC



Create an ADS client for PLC application

Prototype (ADS):

```
public static dynamic CreateOcfAdsClient(string netId, int port,
    int timeout = DefaultTimeOut)
```

Sample:

```
dynamic client = OcfApi.CreateOcfAdsClient(
    "192.168.10.12.1.1", 801);
```



# Ocf Client (OcfApi)

## Cheat Sheet – 2013 sp1

### Retrieve data thanks to Ocf



Get a **child** of the remote object model

```
dynamic axisX = client.Robot.AxisX;
```

Reach a **property** of the remote object model

In C#:  

```
Console.WriteLine("AxisX :", client.Robot.AxisX.Position);
client.Robot.AxisX.Position = 100;
```

In Xaml:  

```
<GroupBox Header="{Binding Client.Name}" Margin="5">
```

Invoke a **method** of the remote object model

```
client.PowerEnable();
```

Manage communication errors with Ocf

Define handler on unhandled exceptions :  

```
Application.Current.DispatcherUnhandledException +=
    CurrentDispatcherUnhandledException;
```

Manage OcfException globally :  

```
private void CurrentDomainUnhandledException(object sender,
    UnhandledExceptionEventArgs e)
{
    if (e.Exception is OcfException)
        ShowException(e.Exception as Exception);
}
```

### Register the licenses



Register a license to create a server/client Ocf

Prototype :  

```
public static void RegisterLicense(
    string companyName, string key)
```

Sample :  

```
OcfApi.RegisterLicense("CompanyName", "XXXX-XXXX-XXXX-XXXX");
```