

# OPC Sample Code

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using OPCAutomation;
namespace OPC
{
    public partial class Form1 : Form
    {
        OPCServer ObjOPCServer;
        OPCGroups ObjOPCGroups;
        OPCGroup ObjOPCGroup;
        string OPCServerName;
        public Form1()
        {
            try
            {
                InitializeComponent();
                OPCServerName = "Here comes your OPC server's name";
                ObjOPCServer = new OPCServer();
                ObjOPCServer.Connect(OPCServerName, "OPC");
                ObjOPCGroups = ObjOPCServer.OPCGroups;
                ObjOPCGroup = ObjOPCGroups.Add("OPCGroup1");
                ObjOPCGroup.DataChange += new
                    DIOPCGroupEvent_DataChangeEventHandler(ObjOPCGroup_DataChange);
                ObjOPCGroup.OPCItems.AddItem("tag name or address (like
                    {plc name on server}!%mw0)", 1);
                ObjOPCGroup.UpdateRate = 10;
            }
        }
        private void ObjOPCGroup_DataChange(object sender, DataChangeEvent e)
        {
            if (e.ItemName == "OPCGroup1")
            {
                if (e.NewValue != null)
                {
                    MessageBox.Show("Data Change Event Received for Item: " + e.ItemName +
                        " New Value: " + e.NewValue);
                }
            }
        }
    }
}
```

```
ObjOPCGroup.IsActive = true;
ObjOPCGroup.IsSubscribed = true;
}
catch (Exception e)
{
    MessageBox.Show(e.ToString());
}
}

private void button1_Click(object sender, EventArgs e)
{
}

private void ObjOPCGroup_DataChange(int TransactionID, int NumItems, ref Array ClientHandles, ref Array ItemValues, ref Array Qualities, ref Array TimeStamps)
{
    for (int i = 1; i <= NumItems; i++)
    {
        if ((Convert.ToInt32(ClientHandles.GetValue(i)) == 1))
        {
            textBox1.Text = ItemValues.GetValue(i).ToString();
        }
    }
}

private void Form1_Load(object sender, EventArgs e)
{
    OPCServerClass GlobalOPCServer = new OPCServerClass();
    Array ServerList = (Array)GlobalOPCServer.GetOPCServers(" ");
    for (int i = 1; i <= ServerList.Length; i++)
    {
        comboBox1.Items.Add(ServerList.GetValue(i).ToString());
    }
}
```

from: GitHub.com