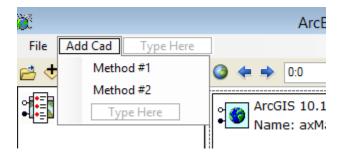
Chapter 5 Add CAD

1. This chapter I will introduce how to add CAD file. In the menu of MainForm, add contents as following graph:



2. Click method for "Method #1"

```
private void method1ToolStripMenuItem_Click(object sender, EventArgs e)
        {
            System. Windows. Forms. OpenFileDialog openFileDialog = new
System. Windows. Forms. OpenFileDialog();
            openFileDialog.Filter = "CAD (*. dwg) | *. dwg";
            openFileDialog.FilterIndex = 2;
            openFileDialog.RestoreDirectory = true;
            openFileDialog.Multiselect = false;
            if (openFileDialog. ShowDialog() == System. Windows. Forms. DialogResult. OK)
                string filename = openFileDialog.FileName;
                if (filename != "")
                    //axMapControl1.ClearLayers();
                    IWorkspaceFactory pCadWorkspaceFactory = new CadWorkspaceFactory();
                    IWorkspace pWorkspace =
pCadWorkspaceFactory.OpenFromFile(System. IO. Path. GetDirectoryName(filename), 0);
                    ICadDrawingWorkspace pCadDrawingWorkspace = (ICadDrawingWorkspace)pWorkspace;
                    ICadDrawingDataset pCadDataset =
pCadDrawingWorkspace.OpenCadDrawingDataset(System. IO. Path. GetFileName(filename));
                    ICadLayer pCadLayer = new CadLayerClass();
                    pCadLayer.CadDrawingDataset = pCadDataset;
```

```
axMapControl1. AddLayer (pCadLayer, 0);
3. Click method for "Method #2"
       private void method2ToolStripMenuItem_Click(object sender, EventArgs e)
            System. Windows. Forms. OpenFileDialog openFileDialog = new
System. Windows. Forms. OpenFileDialog();
            openFileDialog.Filter = "CAD (*.dwg) | *.dwg";
            openFileDialog.FilterIndex = 2;
            openFileDialog.RestoreDirectory = true;
            openFileDialog. Multiselect = false;
            if (openFileDialog. ShowDialog() == System. Windows. Forms. DialogResult. OK)
                string filename = openFileDialog.FileName;
                if (filename != "")
                    //axMapControl1. ClearLayers();
                     IWorkspaceFactory pCadWorkspaceFactory = new CadWorkspaceFactory();
                    IFeatureWorkspace pWorkspace =
pCadWorkspaceFactory.OpenFromFile(System.IO.Path.GetDirectoryName(filename), 0) as
IFeatureWorkspace;
                    IFeatureDataset pFeatureDataset =
pWorkspace. OpenFeatureDataset (System. IO. Path. GetFileName (filename));
                    IFeatureClassContainer pFeatureClassContainer = pFeatureDataset as
IFeatureClassContainer;
                    IFeatureClass pFeatureClass;
                    IFeatureLayer pFeatureLayer;
                    for (int i = 0; i < pFeatureClassContainer.ClassCount; i++)</pre>
                    {
                        pFeatureClass = pFeatureClassContainer.get Class(i);
```