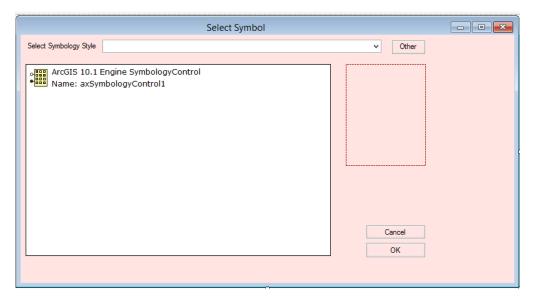
Chapter 7 Symbols

1. Add a Windows Form "GetSymbol" to the project:



GUI implementation detail could be found at "GetSymbol.Designer.cs" file.

- 2. Implementation of GetSymbol:
 - Construction method:

```
esriSymbologyStyleClass styleClass;
public GetSymbol(esriSymbologyStyleClass symStyleClass)
{
    InitializeComponent();
    styleClass = symStyleClass;
}
```

• Add Items method:

LoadStyle:

```
private void LoadStyles()
   string sInstall = ESRI.ArcGIS.RuntimeManager.ActiveRuntime.Path;
    string defaultStyle=System.IO.Path.Combine(sInstall, "Styles\\ESRI.ServerStyle");
   if (System. IO. File. Exists (default Style))
       axSymbologyControl1.LoadStyleFile(defaultStyle);
       axSymbologyControl1.StyleClass = styleClass;
       axSymbologyControl1.GetStyleClass(axSymbologyControl1.StyleClass).SelectItem(0);
       cbxStyles.Text = defaultStyle;
    stylesPath = sInstall + "\\Styles";
   cbxStyles.Items.Clear();
    cbxStylesAddItems(stylesPath);
}

    Load event of GetSymbol:

 private void GetSymbol_Load(object sender, EventArgs e)
     LoadStyles();
       Click event of "OK" and "Cancel":
 public IStyleGalleryItem m_styleGalleryItem;
 private void cmdCancel_Click(object sender, EventArgs e)
     m_styleGalleryItem = null;
     this. Hide():
 private void cmdOK_Click(object sender, EventArgs e)
     this. Hide();
        PreviewImage method and OnItemSelected event of axSymbologyControl:
 private void axSymbologyControl1_OnItemSelected(object sender,
     ISymbologyControlEvents_OnItemSelectedEvent e)
    m_styleGalleryItem = e.styleGalleryItem as IStyleGalleryItem;
```

• Click event of "Other" and SelectedIndexChanged event of cbxStyles:

axSymbologyControl1.GetStyleClass(axSymbologyControl1.StyleClass);

stdole.IPictureDisp picture = symbologyStyleClass.PreviewItem
 (m_styleGalleryItem, pictureBox1.Width, pictureBox1.Height);

private void PreviewImage()

pictureBox1. Image = image;

ISymbologyStyleClass symbologyStyleClass =

System.Drawing.Image image = System.Drawing.Image.
FromHbitmap(new System.IntPtr(picture.Handle));

```
private void btnOtherStyles_Click(object sender, EventArgs e)
     if (folderBrowserDialog1.ShowDialog() == DialogResult.OK)
        stylesPath = folderBrowserDialog1.SelectedPath;
        cbxStylesAddItems(stylesPath);
 private void cbxStyles_SelectedIndexChanged(object sender, EventArgs e)
     if (cbxStyles.SelectedItem == null) return;
     axSymbologyControl1.Clear();
     stylesPath = cbxStyles.SelectedItem.ToString();
     string ext = System. IO. Path. GetExtension(stylesPath). ToLower();
     if (ext == ".serverstyle")
        axSymbologyControl1.LoadStyleFile(stylesPath);
     if (ext == ".style")
        axSymbologyControl1.LoadDesktopStyleFile(stylesPath);
     axSymbologyControl1.StyleClass = styleClass;
 }
3. Back to MainForm:

    GetSymbolByControl:

private ISymbol GetSymbolByControl(ISymbol symbolType)
     ISymbol symbol = null;
     IStyleGalleryItem styleGalleryItem = null;
     esriSymbologyStyleClass styleClass = esriSymbologyStyleClass.
          esriStyleClassMarkerSymbols;
     if (symbolType is IMarkerSymbol)
          styleClass = esriSymbologyStyleClass.esriStyleClassMarkerSymbols;
     if (symbolType is ILineSymbol)
          styleClass = esriSymbologyStyleClass.esriStyleClassLineSymbols;
     if (symbolType is IFillSymbol)
          styleClass = esriSymbologyStyleClass.esriStyleClassFillSymbols;
     }
     GetSymbol symbolForm = new GetSymbol(styleClass);
     symbolForm.ShowDialog();
     styleGalleryItem = symbolForm.m styleGalleryItem;
     if (styleGalleryItem == null)
          return null;
     symbol = styleGalleryItem.Item as ISymbol;
     symbolForm.Dispose();
     this.Activate();
     return symbol;
```

}

• Add code in click event of axTocControl:

```
if (e.button == 1)
    if (layer == null)
        return:
    IFeatureLayer featurelayer = layer as IFeatureLayer;
    if (featurelayer == null)
        return:
    IGeoFeatureLayer geoFeatureLayer = (IGeoFeatureLayer)featurelayer;
    ILegendClass legendClass = new LegendClassClass();
    ISymbol symbol = null;
    if (other is ILegendGroup && (int)index != -1)
        legendClass = ((ILegendGroup)other).get_Class((int)index);
        symbol = legendClass.Symbol;
    if (symbol == null)
        return;
    symbol = GetSymbolByControl(symbol);
    if (symbol == null)
        return:
    legendClass.Symbol = symbol;
    this.Activate();
    ((IActiveView)m_MapDocument.get_Map(0)).ContentsChanged();
    axMapControl1.ActiveView.ContentsChanged();
    axMapControl1.Refresh(esriViewDrawPhase.esriViewGeography, null, null);
    axMapControl1.Refresh();
    axTOCControl1.Update();
}
```