Chapter 15 Finish

1. Add Base Command class: RemobeLayerCmd

Class member:

```
private IHookHelper m_hookHelper = null;
IMapControl3 m_mapcontrol = null;
IFeatureLayer currentLayer = null;
IActiveView m_activeView = null;
IMap m_map = null;
   OnClick:
public override void OnClick()
   // TODO: Add RemoveLayerCmd.OnClick implementation
   if (m_hookHelper.Hook is IMapControl3)
       m_mapcontrol = m_hookHelper.Hook as IMapControl3;
       currentLayer = m_mapcontrol.CustomProperty as IFeatureLayer;
       m_map = m_mapcontrol.Map;
       m_activeView = m_map as IActiveView;
   if (m_map == null || currentLayer == null) return;
   m_map.DeleteLayer(currentLayer);
   m_activeView.PartialRefresh(esriViewDrawPhase.esriViewGeography, null, m_activeView.Extent);
```

2. Add Base Command class: TurnAllLayersOnCmd

• Class member:

```
private IHookHelper m_hookHelper = null;
IActiveView m_activeView = null;
IMapControl3 m_mapcontrol = null;
IMap m_map = null;
   OnClick:
public override void OnClick()
   // TODO: Add TurnAllLayersOnCmd.OnClick implementation
   if (m_hookHelper.Hook is IToolbarControl)
       IToolbarControl toolbarControl = m_hookHelper.Hook as IToolbarControl;
       m_mapcontrol = (IMapControl3)toolbarControl.Buddy;
   if (m_hookHelper.Hook is IMapControl3)
       m_mapcontrol = m_hookHelper.Hook as IMapControl3;
    if (m_mapcontrol != null)
       m_map = m_mapcontrol.CustomProperty as IMap;
       m_activeView = m_map as IActiveView;
   if (m_map == null) return;
    ILayer layer = null;
   for (int i = 0; i < m_map.LayerCount; i++)</pre>
       layer = m_map.get_Layer(i);
       layer. Visible = true;
   m_activeView.PartialRefresh(esriViewDrawPhase.esriViewGeography,
       null, m_activeView.Extent);
```

3. Add Base Command class: TurnAllLayersOffCmd

• Class member:

```
private IHookHelper m_hookHelper = null;
  IActiveView m_activeView = null;
  IMapControl3 m_mapcontrol = null;
  IMap m_map = null;
    OnClick:
 public override void OnClick()
    // TODO: Add TurnAllLayersOffCmd.OnClick implementation
    if (m_hookHelper.Hook is IToolbarControl)
        IToolbarControl toolbarControl = m_hookHelper.Hook as IToolbarControl;
        m_mapcontrol = (IMapControl3)toolbarControl.Buddy;
    if (m_hookHelper.Hook is IMapControl3)
        m_mapcontrol = m_hookHelper.Hook as IMapControl3;
    if (m_mapcontrol != null)
        m_map = m_mapcontrol.CustomProperty as IMap;
        m_activeView = m_map as IActiveView;
    if (m_map == null) return;
    ILayer layer = null;
    for (int i = 0; i < m_map.LayerCount; i++)</pre>
        layer = m_map.get_Layer(i);
        layer. Visible = false;
    m_activeView.PartialRefresh(esriViewDrawPhase.esriViewGeography,
        null, m_activeView.Extent);
4. Add Base Command class: ClearCurrentTool
     Class member:
private IHookHelper m_hookHelper = null;
IMapControl3 m_mapControl = null;
IPageLayoutControl3 pPageLayoutControl = null;
    OnClick:
public override void OnClick()
```

5. Add Base Command class: ClearFeatureSelection

// TODO: Add ClearCurrentTool.OnClick implementation
if (m_mapControl != null) m_mapControl.CurrentTool = null;

if (pPageLayoutControl != null) pPageLayoutControl.CurrentTool = null;

• OnClick:

}

```
public override void OnClick()
     // TODO: Add ClearFeatureSelection.OnClick implementation
     m_hookHelper.FocusMap.ClearSelection();
     IActiveView pactiveView = m_hookHelper.FocusMap as IActiveView;
     pactiveView.Refresh();
6. Add Base Command class: Refresh
    OnClick:
 public override void OnClick()
      // TODO: Add Refresh.OnClick implementation
      m_hookHelper.ActiveView.Refresh();
 }
7. Back to MainForm:

    Add Class Member:

IToolbarMenu m_TocLayerMenu = new ToolbarMenuClass();
IToolbarMenu m_TocMapMenu = new ToolbarMenuClass();
IToolbarMenu m toolbarMenu = new ToolbarMenuClass();
      In the Load event, add:
  m_TocLayerMenu.AddItem(new OpenAttributeTableCmd(), 0, 0, false, esriCommandStyles.esriCommandStyleIconAndText);
   m_TocLayerMenu.AddItem(new RemoveLayerCmd(), 0, 1, false, esriCommandStyles.esriCommandStyleIconAndText);
  m TocLayerMenu.SetHook(axMapControl1);
  m_TocMapMenu.AddItem(new ControlsAddDataCommandClass(), 0, -1, false, esriCommandStyles.esriCommandStyleIconAndText);
  \label{localization} $$m_TocMapMenu.AddItem(new TurnAllLayersOnCmd(), 0, -1, true, esriCommandStyles.esriCommandStyleIconAndText); $$
  m_TocMapMenu.AddItem(new TurnAllLayersOffCmd(), 0, -1, false, esriCommandStyles.esriCommandStyleIconAndText);
  m_TocMapMenu.SetHook(axMapControl1);
  m_toolbarMenu.AddItem(new ClearCurrentTool(), 0, -1, false, esriCommandStyles.esriCommandStyleIconAndText);
  m_toolbarMenu.AddItem(new ClearFeatureSelection(), 0, -1, false, esriCommandStyles.esriCommandStyleIconAndText);
  m_toolbarMenu.AddItem(new Refresh(), 0, -1, false, esriCommandStyles.esriCommandStyleIconAndText);
  m_toolbarMenu.SetHook(axMapControl1);
        OnMouseDown Event and OnViewRefreshed Event of MapControl:
 private void axMapControl1_OnMouseDown(object sender, IMapControlEvents2_OnMouseDownEvent e)
     if (e.button == 2)
         if (e.button == 2) m_toolbarMenu.PopupMenu(e.x, e.y, axMapControl1.hWnd);
 }
 private void axMapControl1_OnViewRefreshed(object sender, IMapControlEvents2_OnViewRefreshedEvent e)
     if (m_mapControl != null)
         axTOCControl1.Update();
    }
 }
```

• OnMouseDown Event of TocControl:

```
if (e.button == 2)
{
    if (item == esriTOCControlItem.esriTOCControlItemMap)
    {
        m_controlsSynchronizer.MapControl.CustomProperty = map;
        m_TocMapMenu.PopupMenu(e.x, e.y, axTOCControl1.hWnd);
    }
    else if (layer is IFeatureLayer)
    {
        m_controlsSynchronizer.MapControl.CustomProperty = layer;
        m_TocLayerMenu.PopupMenu(e.x, e.y, axTOCControl1.hWnd);
    }
}
```