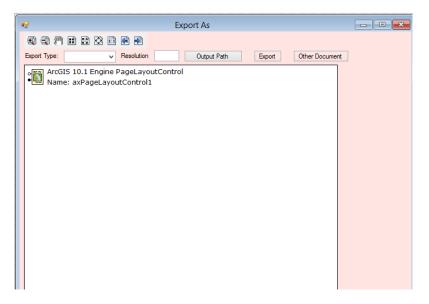
Chapter 9 Output and Print

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



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

- 2. Implementation of Export:
 - Construction method:

```
public Export(IPageLayout pagelayout)
{
    InitializeComponent();
    axPageLayoutControl1.PageLayout = pagelayout;
}
```

• Add click event of "Other Document":

• Add click event of "Output Path":

```
string exportFileName = "C:\\Temp\\Test.bmp";
string fileExtension = "BMP";
private void btnOutputFile_Click(object sender, EventArgs e)
{
    if (saveFileDialog1.ShowDialog() == DialogResult.OK)
    {
        exportFileName = saveFileDialog1.FileName + "." + fileExtension;
    }
}
```

• SelectedIndexChanged event of cbxOutputType:

```
string strOutputType = "ExportBMP";
IExport export = new ExportBMP() as IExport;
private void cbxOutputType_SelectedIndexChanged(object sender, EventArgs e)
     if (cbxOutputType.SelectedItem == null) return;
     strOutputType = cbxOutputType.SelectedItem.ToString();
         switch (strOutputType)
             case "ExportBMP":
                 export = new ExportBMP() as IExport;
fileExtension = "BMP";
                 break;
             case "ExportGIF": //ArcPressPrinter need ArcGIS Desktop License
                 export = new ExportGIF() as IExport;
fileExtension = "GIF";
                 break;
             case "ExportJPEG":
                 export = new ExportJPEG() as IExport;
                 fileExtension = "JPG";
                 break;
             case "ExportPNG":
                 export = new ExportPNG() as IExport;
fileExtension = "PNG";
                 break;
             case "ExportTIFF":
                 export = new ExportTIFF() as IExport;
                 fileExtension = "TIFF";
                 break;
             case "ExportAI":
                 export = new ExportAI() as IExport;
                 fileExtension = "AI";
                 break;
             case "ExportEMF":
                 export = new ExportEMF() as IExport;
                 fileExtension = "EMF";
                 break;
             case "ExportPDF":
                 export = new ExportPDF() as IExport;
fileExtension = "PDF";
                 break;
             case "ExportPS":
                 export = new ExportPS() as IExport;
                 fileExtension = "PS";
                 break;
             case "ExportSVG":
                 export = new ExportSVG() as IExport;
                 fileExtension = "SVG";
                 break;
             default:
                 break:
        }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
}
```

• Click event of "Export":

```
IOutputRasterSettings rasterSettings;
 double iOutputResolution = 300;
private void btnPrint_Click(object sender, EventArgs e)
{
    if (export is IOutputRasterSettings)
    {
        rasterSettings = export as IOutputRasterSettings;
        rasterSettings.ResampleRatio = 1;
    if (Information.IsNumeric(txtResolution.Text))
        iOutputResolution = Convert.ToInt32(txtResolution.Text);
    else
        iOutputResolution = 300;
    IActiveView pActiveView = axPageLayoutControl1.ActiveView;
    double iScreenResolution = pActiveView.ScreenDisplay.
        DisplayTransformation.Resolution;
    tagRECT exportRECT; exportRECT.left = 0; exportRECT.top = 0;
    exportRECT.right = Convert.ToInt32(Math.Ceiling(pActiveView.ExportFrame.
        right * (iOutputResolution / iScreenResolution)));
    exportRECT.bottom = Convert.ToInt32(Math.Round(pActiveView.ExportFrame.
        bottom * (iOutputResolution / iScreenResolution)));
    IEnvelope pPixelBoundsEnv = new Envelope() as IEnvelope;
    pPixelBoundsEnv.PutCoords(exportRECT.left, exportRECT.top, exportRECT.right
        , exportRECT.bottom);
    export.Resolution = iOutputResolution;
    export.PixelBounds = pPixelBoundsEnv;
    export.ExportFileName = exportFileName;
    int hDC = export.StartExporting();
    pActiveView.Output(hDC, (int)export.Resolution, ref exportRECT,
        null, null);
    export.FinishExporting();
    export.Cleanup();
    MessageBox.Show("Export Success");
}
3. Add A Base Command Class: ExportView:
```

Add Class member:

```
public sealed class ExportView : BaseCommand
    COM Registration Function(s)
    private IHookHelper m_hookHelper = null;
    IPageLayoutControl3 pPageLayoutControl;
```

Add code in the OnCreate method:

pPageLayoutControl = m hookHelper.Hook as IPageLayoutControl3;

OnClick Method:

```
public override void OnClick()
{
    // TODO: Add ExportView.OnClick implementation
    Export exportActiveView = new Export(pPageLayoutControl.PageLayout);
    exportActiveView.ShowDialog();
}

4. Back to MainForm, add a menu content and its click event:

private void exportAsToolStripMenuItem_Click(object sender, EventArgs e)
{
    ICommand export = new ExportView();
    export.OnCreate(axPageLayoutControl1.Object);
    export.OnClick();
    axPageLayoutControl1.CurrentTool = export as ITool;
}
```