BIM□□□□

- □□□__
- □□□__

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```
Component component = new Component();
component.Name = teklaPLuginList.Name;
component.Number = teklaPLuginList.Number;
ComponentInput componentInput = new ComponentInput();
switch (teklaPLuginList.Name)
{
   case "DKQGGQCoQ□□□□      Q□□□□□□          ":
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      componentInput.AddOneInputPosition(new Picker().PickPoint());
      componentInput.AddOneInputPosition(new Picker().PickPoint());
      break;
   case "DKQGGQDoQ□□□□      Q□□□□□        ":
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      break;
   case "DKQGGQDoQ□□□□      Q□□□□□        ":
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      break;
   case "DKQGGQDoQ□□□□      Q□□□□      ":
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      break;
   default:
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      componentInput.AddInputObject(new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART));
      break;

}
component.SetComponentInput(componentInput);
component.Insert();
_model.CommitChanges();
```

□□ Tekla□□□□

```
 if (_model.GetConnectionStatus())
 {
    marcofile = "";
    TeklaBMP = "";
```

```
    Teklaexe = "";
    string xsbin = "";
    TeklaStructuresSettings.GetAdvancedOption("XSBIN", ref xsbin);
    DirectoryInfo path = new DirectoryInfo(xsbin);
    string tt = path.Parent.Parent.FullName;//□  2□□□
    TeklaBMP = tt + "\\Bitmaps\\";
    Teklaexe = tt + "\\nt\\bin";
    tt += "\\nt\\bin\\plugins\\Tekla\\Model\\ModelTemplates\\KDplugin\\";
    marcofile = tt;
    List<string> vs = new List<string>();
    vs.Add(TeklaBMP);
    vs.Add(tt);
    vs.Add(Teklaexe);
    RememberKey.remeberKeyMethod(vs);
    return true;
}
```

□□□□□

```
CatalogHandler catalogHandler = new CatalogHandler();
//□□□□□
//ComponentItemEnumerator componentItemEnumerator1 = catalogHandler.GetComponentItems();//
□□□□□□□□□□

if (catalogHandler.GetConnectionStatus())//□□□□□
{
    ComponentItemEnumerator componentItemEnumerator = catalogHandler.GetComponentItems();

    int t = catalogHandler.GetComponentItems().GetSize();

    while (componentItemEnumerator.MoveNext())//□□□□□□□□□□□□□□□□□
    {
        string pluginName = componentItemEnumerator.Current.Name;
        int pluginNumber = componentItemEnumerator.Current.Number;
        string[] type = pluginName.Split(new string[] { "Q" }, StringSplitOptions.RemoveEmptyEntries);
        if (type.Length > 0 && type[0] == "DK")
        {
            switch (type[1])
            {
                case "GG":
                    switch (type[2]) //□□□    switch(){case :beak;....default :break;}//□□□□□□□□□
                    {
                        case "Do":
                            addpluin(pluginName, pluginNumber, teklaPLuginListDo);
                            break;
                        case "Fr":
                            addpluin(pluginName, pluginNumber, teklaPLuginListFr);
                            break;
                        case "Tr":
                            addpluin(pluginName, pluginNumber, teklaPLuginListTr);
```

```
            break;
        case "Gr":
            addpluin(pluginName, pluginNumber, teklaPLuginListGr);
            break;
        case "Co":
            addpluin(pluginName, pluginNumber, teklaPLuginListCo);
            break;
        default:
            break;
    }
    break;
case "GJ":
    //□□□    switch(){case :beak;....default :break;}
    //□□□□□□□□□
    switch (type[2])
    {
        case "Pu":
            addpluin(pluginName, pluginNumber, teklaPLuginListPu);
            break;
        case "Pi":
            addpluin(pluginName, pluginNumber, teklaPLuginListPi);
            break;
        case "St":
            addpluin(pluginName, pluginNumber, teklaPLuginListSt);
            break;
        case "Wa":
            addpluin(pluginName, pluginNumber, teklaPLuginListWa);
            break;
        case "Pl":
            addpluin(pluginName, pluginNumber, teklaPLuginListPl);
            break;
        case "Ba":
            addpluin(pluginName, pluginNumber, teklaPLuginListBa);
            break;
        case "Go":
            addpluin(pluginName, pluginNumber, teklaPLuginListGo);
            break;
        default:
            break;
    }
    break;
case "TZ":
    switch (type[2]) //□□□    switch(){case :beak;....default :break;}//□□□□□□□□□
    {
        case "Re":
            addpluin(pluginName, pluginNumber, teklaPLuginListRe);
            break;
        case "As":
            addpluin(pluginName, pluginNumber, teklaPLuginListAs);
            break;
        case "Pa":
            addpluin(pluginName, pluginNumber, teklaPLuginListPa);
            break;
```

```
                case "Ga":
                    addpluin(pluginName, pluginNumber, teklaPLuginListGa);
                    break;
                case "To":
                    addpluin(pluginName, pluginNumber, teklaPLuginListTo);
                    break;
                default:
                    break;
            }
            break;
        case "BB":
            switch (type[2]) //□□□    switch(){case :beak;....default :break;}//□□□□□□□□□
            {
                case "Sl":
                    addpluin(pluginName, pluginNumber, teklaPLuginListSl);
                    break;
                case "Rb":
                    addpluin(pluginName, pluginNumber, teklaPLuginListRb);
                    break;
                case "Bo":
                    addpluin(pluginName, pluginNumber, teklaPLuginListBo);
                    break;
                default:
                    break;
            }
            break;
    }

  }

 }

}
```

□□□□□□

```
        ClashCheckOptions clashCheckOptions = new ClashCheckOptions();//□□□□□□□□            d,t
        TeklaStructuresSettings.GetOptions(ref clashCheckOptions);//tekla□□□□□□□□□□□□
        MessageBox.Show("d=" + clashCheckOptions.BoltHeadDiameter.ToString()
            + "\r\n" + "t=" + clashCheckOptions.NutThickness.ToString(), "Tekla□□□□□□        ");
        clashCheckOptions.BoltHeadDiameter = 10.0;//d
        clashCheckOptions.NutThickness = 5.0;//t
        TeklaStructuresSettings.SetOptions(clashCheckOptions);//□□□□□□□□□□□□
        MessageBox.Show("d=" + clashCheckOptions.BoltHeadDiameter.ToString()
            + "\r\n" + "t=" + clashCheckOptions.NutThickness.ToString(), "□□□□□□        ");
```

□□□□□

```
ComponentOptions componentOptions = new ComponentOptions();//□□
TeklaStructuresSettings.GetOptions(ref componentOptions);//□□
MessageBox.Show(
   "□□□    " + componentOptions.PlateProfileName + "\r\n" +
   "□□□□□      " + componentOptions.FoldedPlateProfileName + "\r\n" +
    "□□□□□□        " + componentOptions.BoltEdgeDistanceFactor + "\r\n" +
    "□□□□      " + componentOptions.BoltEdgeDistanceReference + "\r\n" +
     "□□□□      " + componentOptions.BoltStandard + "\r\n" +
     "□□□□      " + componentOptions.BoltSize + "\r\n" +
     "□□□□      " + componentOptions.PartMaterial + "\r\n" +
      "□□□□□□□□□□              " + componentOptions.PartWeldedToPrimaryPositionPrefix + "\r\n" +
   "□□□□□□□□□□□□                " + componentOptions.PartWeldedToPrimaryStartNumber + "\r\n" +
   "□□□□□□□□□□              " + componentOptions.PartWeldedToSecondaryPositionPrefix + "\r\n" +
   "□□□□□□□□□□□□                " + componentOptions.PartWeldedToSecondaryStartNumber + "\r\n" +
   "□□□□□□        " + componentOptions.LoosePartPositionPrefix + "\r\n" +
   "□□□□□□□□          " + componentOptions.LoosePartStartNumber + "\r\n" +
   "□□□□□□□□□□              " + componentOptions.AssemblyLoosePartPositionPrefix + "\r\n" +
   "□□□□□□□□          " + componentOptions.AssemblyLoosePartStartNumber + "\r\n"
  , "Tekla□□□□□□□□            ");
componentOptions.PlateProfileName = "□□□□      ";
componentOptions.FoldedPlateProfileName = "□□□□□      ";
componentOptions.BoltEdgeDistanceReference = ComponentOptions.BoltEdgeDistanceReferenceEnum.HOLE_DI
TeklaStructuresSettings.SetOptions(componentOptions);//□□
```

□□□

```
 MessageBox.Show(
    "□□□□□□□          =" + ModuleManager.AnalysisAndDesign.ToString() + "\r\n" +
    "□□□    =" + ModuleManager.ConcreteDetailing.ToString() + "\r\n" +
    "□□□□      =" + ModuleManager.LoadModeling.ToString() + "\r\n" +
    "□□□□□       =" + ModuleManager.MultimaterialModeling.ToString() + "\r\n" +
    "□□□□      =" + ModuleManager.RebarModeling.ToString() + "\r\n" +
    "□□□□□       =" + ModuleManager.SteelDetailing.ToString() + "\r\n" +
    "□□□□      =" + ModuleManager.TaskManagement.ToString() + "\r\n" +
    "□□□□      " + "\r\n" +
    "□□□□□□□□            =" + ModuleManager.Configuration, "Tekl□□□□□        "

    );
```

Tekla□□□□□

```
TeklaStructuresFiles teklaStructuresFiles = new TeklaStructuresFiles();//□□  Tekla□□□□
List<string> filesList = new List<string>();
int i = 0;
string files = "";
while (i < teklaStructuresFiles.PropertyFileDirectories.Count)
{
   files += teklaStructuresFiles.PropertyFileDirectories[i] + "\r\n";
```

```
    i++;
}//□□□    Tekla□□□□□
MessageBox.Show(files, "□□□□□□          ");
string file = teklaStructuresFiles.GetAttributeFile("rebar_with_couplers.tpl").ToString();
//□□□□□□□□□□□□
MessageBox.Show(file);
bool vs = false;
filesList = teklaStructuresFiles.GetMultiDirectoryFileList("rpt", vs);
files = "";
foreach (string tt in filesList)
{
    files += tt + "\r\n";
}
MessageBox.Show(files, "□□□□□□□□□□□                ");
filesList.Clear();
FileInfo tttt = teklaStructuresFiles.GetAttributeFile(teklaStructuresFiles.PropertyFileDirectories, "rebar_with_coupl
MessageBox.Show(tttt.ToString(), "□□□□□□          ");
```

□□□

```
 string infoS = "";
 infoS +=
 "□□□□      =" + TeklaStructuresInfo.GetBuildNumber() + "\r\n" +
 "□□□□□□□□            =" + TeklaStructuresInfo.GetCommonAppDataFolder() + "\r\n" +
 "Tekla□□□□      =" + TeklaStructuresInfo.GetCopyRightText() + "\r\n" +
 "Tekla□□□□      =" + TeklaStructuresInfo.GetCurrentProgramVersion() + "\r\n" +
 "Tekla□□□□      =" + TeklaStructuresInfo.GetCurrentUser() + "\r\n" +
 "Tekla□□□□□□□□□              =" + TeklaStructuresInfo.GetFullTSRegistryKeyText() + "\r\n" +
 "□□□□      appdata□□□     =" + TeklaStructuresInfo.GetLocalAppDataFolder() + "\r\n" +
  "Tekla□□□□□□□            =" + TeklaStructuresInfo.GetRevisionDate();
 MessageBox.Show(infoS, "Tekla□□□□□□          ");
```

□□□□

```
bool ispourendabled = TeklaStructuresSettings.IsPourEnabled();
MessageBox.Show(ispourendabled.ToString(), "□□□□□□□□□□                ");
string istoolOR = "";
istoolOR += "□□□□□□          =" + TeklaStructuresSettings.IsToolOptionOn("sel_all") + "\r\n";
istoolOR += "□□□□□□□□□□□               =" + TeklaStructuresSettings.IsToolOptionOn("sel_analysisnodelinks") + "\r\n";
istoolOR += "□□□□□□□□            =" + TeklaStructuresSettings.IsToolOptionOn("sel_analysisnodes") + "\r\n";
istoolOR += "□□□□□□□□            =" + TeklaStructuresSettings.IsToolOptionOn("sel_analysisparts") + "\r\n";
istoolOR += "□□□□□□□□            =" + TeklaStructuresSettings.IsToolOptionOn("sel_single_rebars") + "\r\n\r\n";

istoolOR += "□□□□□□□           =" + TeklaStructuresSettings.ToolOptionNames.ConstructionLines + "\r\n";
istoolOR += "□□□□□□□□□             =" + TeklaStructuresSettings.ToolOptionNames.CustomObjects + "\r\n";
istoolOR += "□□□□□□          =" + TeklaStructuresSettings.ToolOptionNames.Cuts + "\r\n";
istoolOR += "□□□□□□□□            =" + TeklaStructuresSettings.ToolOptionNames.DirectManipulation + "\r\n";
istoolOR += "□□□□□□□□□□
```

```
=" + TeklaStructuresSettings.ToolOptionNames.DisplaySelectionFilterDialog + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Distances + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Grid + "\r\n";
 istoolOR += "□□□□□□□         =" + TeklaStructuresSettings.ToolOptionNames.GridLine + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Joints + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Loads + "\r\n";
 istoolOR += "□□□□□□□□□             =" + TeklaStructuresSettings.ToolOptionNames.ObjectsInJoints + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Parts + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Planes + "\r\n";
 istoolOR += "□□□□□       =" + TeklaStructuresSettings.ToolOptionNames.Points + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.PourBreaks + "\r\n";
 istoolOR += "□□□□□□□         =" + TeklaStructuresSettings.ToolOptionNames.RebarGroup + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Rebars + "\r\n";
 istoolOR += "□□□□□□□           =" + TeklaStructuresSettings.ToolOptionNames.ReferenceModels + "\r\n";
 istoolOR += "□□□□□□□         =" + TeklaStructuresSettings.ToolOptionNames.Screws + "\r\n";
 istoolOR += "□□□□□□□           =" + TeklaStructuresSettings.ToolOptionNames.SelectAssemblies + "\r\n";
 istoolOR += "□□□□□□□□□□□□
=" + TeklaStructuresSettings.ToolOptionNames.SelectObjectsInAssemblies + "\r\n";
 istoolOR += "□□□□□□□           =" + TeklaStructuresSettings.ToolOptionNames.SelectTasks + "\r\n";
 istoolOR += "□□□□□□□           =" + TeklaStructuresSettings.ToolOptionNames.SingleScrews + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Surfaces + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Views + "\r\n";
 istoolOR += "□□□□□□        =" + TeklaStructuresSettings.ToolOptionNames.Weldings + "\r\n";
 MessageBox.Show(istoolOR, "□□□□      ");
 //TeklaStructuresSettings.GetAdvancedOption("XS_ENABLE_POUR_MANAGEMENT",ref istoolOR);
 TeklaStructuresSettings.GetAdvancedOption("XS_POUR_BREAK_COLOR", ref istoolOR);
 MessageBox.Show(istoolOR, "□□□□□□□           ");
```

□□□□

```
 Beam beam = (Beam)new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART);//□□□□
 Solid solid = beam.GetSolid();
 FaceEnumerator faceEnumerator = solid.GetFaceEnumerator();//□□□□□          □□
 int i = 0;
 while (faceEnumerator.MoveNext()) //□□□
 {
    LoopEnumerator loopEnumerator = faceEnumerator.Current.GetLoopEnumerator();//□□□□□□□□              □□
    while (loopEnumerator.MoveNext())  //□□□□□□□□
    {
       VertexEnumerator vertexEnumerator = loopEnumerator.Current.GetVertexEnumerator();//□□□□        □□
□□
       while (vertexEnumerator.MoveNext())// □□□□□□□□□□
       {
          dataGridView1.Rows.Add();//□□□□□□
          dataGridView1.Rows[i].Cells[0].Value = string.Format("□□□     {0}", i);
          dataGridView1.Rows[i].Cells[1].Value = vertexEnumerator.Current as Point;//
□□□□□□□□□□□□□□□□□□□□
          i++;
       }
    }
```

```
}
```

□□□□

```
string sourceFile = @"albl_up_Developer--main_menu.xml";
string destinationFile = @"C:\Users\Administrator\AppData\Local\Trimble\Tekla Structures\2020.0\UI\Ribbons\albl_
bool isrewrite = true; // true=□□□□□□□□□□                ,false□□□
System.IO.File.Copy(sourceFile, destinationFile, isrewrite);
```

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Ribbon Format="2016i">
 <QuickAccessToolbar>
  <SimpleButton X="0" Y="0" Width="1" Height="1" Command="Common.Save" Icon="command:ScalableIcon"
  <Separator X="1" Y="0" Width="1" Height="1" Orientation="Vertical" Thickness="1" />
  <SimpleButton X="2" Y="0" Width="1" Height="1" Command="Common.Undo" Icon="command:ScalableIcon"
  <SimpleButton X="3" Y="0" Width="1" Height="1" Command="Edit.Redo" Icon="command:ScalableIcon" Sho
 </QuickAccessToolbar>
 <StaticTab>
  <SplitButton X="0" Y="0" Width="2" Height="2" Command="Common.Interrupt" Icon="command:ScalableIcor
   <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Common.Interrupt" Text="command:FullText
   <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Edit.SelectAll" Text="command:FullText" Icon
   <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Edit.SelectPrevious" Text="command:FullTex
   <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Edit.SelectByIdentifier" Text="command:FullT
  </SplitButton>
  <SplitButton X="0" Y="2" Width="2" Height="2" Command="Inquiry.Object" Icon="command:ScalableIcon" Sh
   <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Inquiry.Object" Text="command:ShortText" Ic
   <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Inquiry.PointCoordinates" Text="command:Sh
   <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Inquiry.CenterOfGravity" Text="command:Sh
   <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Inquiry.Custom" Text="command:FullText" Ic
   <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Inquiry.WeldedParts" Text="command:ShortT
   <SimpleButton X="0" Y="10" Width="8" Height="2" Command="Inquiry.PrimaryWeldedPart" Text="comman
   <SimpleButton X="0" Y="12" Width="8" Height="2" Command="Inquiry.AssemblyObjects" Text="command:S
   <SimpleButton X="0" Y="14" Width="8" Height="2" Command="Inquiry.ComponentObjects" Text="comman
   <SimpleButton X="0" Y="16" Width="8" Height="2" Command="Inquiry.Phases" Text="command:ShortText"
   <SimpleButton X="0" Y="18" Width="8" Height="2" Command="Inquiry.ModelSize" Text="command:ShortTe
  </SplitButton>
 </StaticTab>
 <Tab Header="translation:ribbon_Steel" IsCollapsed="false" IsUserDefined="false">
  <SimpleButton X="0" Y="0" Width="3" Height="4" Command="Modeling.CreateSteelColumn" Text="comman
  <SplitButton X="3" Y="0" Width="3" Height="4" Command="Modeling.CreateSteelBeam" Text="command:Sh
   <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Modeling.CreateSteelBeam" Text="command
   <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Modeling.CreateSteelPolybeam" Text="comm
   <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Modeling.CreateSteelCurvedBeam" Text="co
   <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Modeling.CreateSteelTwinProfile" Text="com
   <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Modeling.CreateSteelOrthogonalBeam" Text=
   <SimpleButton X="0" Y="10" Width="8" Height="2" Command="Modeling.CreateSteelSpiralBeam" Text="co
  </SplitButton>
  <SplitButton X="6" Y="0" Width="3" Height="4" Command="Modeling.CreateSteelContourPlate" Text="comm
   <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Modeling.CreateSteelContourPlate" Text="co
```

```
    <SimpleButton X="0" Y="2" Width="8" Height="3" Command="Modeling.CreateCylindricalBentPlate" Text="c
    <SimpleButton X="0" Y="5" Width="8" Height="3" Command="Modeling.CreateConicalBentPlate" Text="com
    <SimpleButton X="0" Y="8" Width="8" Height="3" Command="Modeling.CreateStandaloneBend" Text="com
    <SimpleButton X="0" Y="11" Width="8" Height="3" Command="Modeling.CreateLoftedPlate" Text="commar
  </SplitButton>
  <SimpleButton X="9" Y="0" Width="3" Height="4" Command="Bolts.CreateBolts" Text="command:ShortText"
  <SplitButton X="12" Y="0" Width="4" Height="4" Command="Weld.CreateBetweenParts" Text="command:Sh
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Weld.CreateBetweenParts" Text="command:
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Weld.CreateToPart" Text="command:FullText
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Weld.CreatePolygon" Text="command:FullTe
    <Separator X="0" Y="6" Width="8" Height="1" Orientation="Horizontal" Thickness="1" />
    <SimpleButton X="0" Y="7" Width="8" Height="3" Command="Weld.PreparePart.WithPolygon" Text="comma
    <SimpleButton X="0" Y="10" Width="8" Height="3" Command="Weld.PreparePart.WithAnotherPart" Text="c
    <SimpleButton X="0" Y="13" Width="8" Height="2" Command="Weld.ConvertToPolygonWeld" Text="comma
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  <SimpleButton X="16" Y="0" Width="8" Height="1" Command="Modeling.CreateSteelItem" Text="command:S
  <SimpleButton X="16" Y="1" Width="8" Height="2" Command="Bolts.EditBoltedParts" Text="command:Short
  <DropdownButton X="16" Y="3" Width="8" Height="1" Text="translation:albl_Assembly" Icon="resource:Brush
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    <SimpleButton X="0" Y="3" Width="8" Height="3" Command="Assembly.AddAsSubAssembly" Text="comma
    <SimpleButton X="0" Y="6" Width="8" Height="3" Command="Assembly.SetAsNewMainObjectOfAssembly" T
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    <SimpleButton X="0" Y="12" Width="8" Height="3" Command="Assembly.Explode" Text="command:ShortTe
    <SimpleButton X="0" Y="15" Width="8" Height="3" Command="Assembly.ExplodeSubAssembly" Text="com
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    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Modeling.CreateConcretePolybeam" Text="co
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Modeling.CreateConcreteSpiralBeam" Text="
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  <SplitButton X="6" Y="0" Width="3" Height="4" Command="Modeling.CreateConcretePanel" Text="command
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Modeling.CreateConcretePanel" Text="comm
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Modeling.CreateWallLayout" Text="command
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    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Modeling.CreateLoftedSlab" Text="command
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Modeling.CreateFloorLayout" Text="comman
  </SplitButton>
  <SplitButton X="12" Y="0" Width="4" Height="4" Command="Modeling.CreateConcretePadFooting" Text="tra
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Modeling.CreateConcretePadFooting" Text="c
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Modeling.CreateConcreteStripFooting" Text="
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    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="CastUnit.AddToCastUnit" Text="command:Fu
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="CastUnit.RemoveFromCastUnit" Text="comm
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    <SimpleButton X="0" Y="11" Width="8" Height="2" Command="CastUnit.ShowTopInFormFace" Text="comm
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    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Reinforcement.CreateRebar" Text="command
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Reinforcement.CreateCurvedReinforcingBarG
    <SimpleButton X="0" Y="6" Width="8" Height="3" Command="Reinforcement.CreateCircularRebarGroup" Te
    <SimpleButton X="0" Y="9" Width="8" Height="2" Command="Reinforcement.CreateReinforcementMesh" Te
    <SimpleButton X="0" Y="11" Width="8" Height="2" Command="Reinforcement.CreateStrandPattern" Text="
    <SimpleButton X="0" Y="13" Width="8" Height="3" Command="Reinforcement.CreateReinforcementSplice"
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    <SimpleButton X="0" Y="20" Width="8" Height="2" Command="Reinforcement.AttachToPart" Text="comma
    <SimpleButton X="0" Y="22" Width="8" Height="2" Command="Reinforcement.DetachFromPart" Text="com
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    <SimpleButton X="0" Y="27" Width="8" Height="2" Command="Reinforcement.UngroupRebars" Text="comm
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    <SimpleButton X="0" Y="3" Width="8" Height="3" Command="Reinforcement.CreateLongitudinalBeamReinf
    <SimpleButton X="0" Y="6" Width="8" Height="3" Command="Reinforcement.CreateSlabOrWallReinforceme
    <SimpleButton X="0" Y="9" Width="8" Height="3" Command="Reinforcement.CreateRebarsOnSurface" Text
    <SimpleButton X="0" Y="12" Width="8" Height="3" Command="Reinforcement.CreateReinforcementSetViaP
    <SimpleButton X="0" Y="15" Width="8" Height="3" Command="Catalogs.RebarSetShapeCatalog" Text="con
    <SimpleButton X="0" Y="18" Width="8" Height="3" Command="Reinforcement.RegenerateSelectedReinforce
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  <DropdownButton X="26" Y="2" Width="8" Height="2" Text="translation:ribbon_Rebar_display_options" Icon=
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    <CheckButton X="0" Y="2" Width="8" Height="2" Command="Reinforcement.RebarSetGuidelineVisibility" Te
    <CheckButton X="0" Y="4" Width="8" Height="2" Command="Reinforcement.RebarSetPropertyStripVisibility
    <CheckButton X="0" Y="6" Width="8" Height="2" Command="Reinforcement.RebarSetSplitterVisibility" Text
    <CheckButton X="0" Y="8" Width="8" Height="2" Command="Reinforcement.RebarSetEndDetailStripVisibilit
    <CheckButton X="0" Y="10" Width="8" Height="2" Command="Reinforcement.RebarDimensionVisibility" Tex
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    <SimpleButton X="0" Y="3" Width="8" Height="3" Command="Modeling.CreatePourBreak.UsingTwoPoints" T
    <SimpleButton X="0" Y="6" Width="8" Height="3" Command="Modeling.CreatePourBreak.UsingMultiplePoint
  </DropdownButton>
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  <SimpleButton X="0" Y="2" Width="8" Height="1" Command="Detailing.CutPart.WithLine" Text="command:S
  <SimpleButton X="0" Y="3" Width="8" Height="1" Command="Detailing.CutPart.WithAnotherPart" Text="com
  <SimpleButton X="8" Y="0" Width="8" Height="2" Command="Detailing.FitPartEnd" Text="command:FullText
  <SimpleButton X="8" Y="2" Width="8" Height="1" Command="Edit.Split" Text="command:FullText" Icon="co
  <SimpleButton X="8" Y="3" Width="8" Height="1" Command="Edit.Combine" Text="command:FullText" Icon=
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  <SimpleButton X="0" Y="3" Width="8" Height="3" Command="Material.DetachFromPart" Text="command:S
  <SimpleButton X="0" Y="6" Width="8" Height="3" Command="Material.ExplodePart" Text="command:FullTe
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  <SimpleButton X="0" Y="3" Width="8" Height="3" Command="Components.CreateCurrentConnection" Text=
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  <SimpleButton X="0" Y="0" Width="8" Height="3" Command="SurfaceTreatment.CreateToPartFace" Text="c
  <SimpleButton X="0" Y="3" Width="8" Height="3" Command="SurfaceTreatment.CreateToSelectedAreaOnPa
  <SimpleButton X="0" Y="6" Width="8" Height="3" Command="SurfaceTreatment.CreateToAllFacesOfPart" Te
  <Separator X="0" Y="9" Width="8" Height="1" Orientation="Horizontal" Thickness="1" />
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  <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Tools.CompareAssemblies" Text="command:
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  <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Measure.HorizontalDistance" Text="comman
  <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Measure.VerticalDistance" Text="command:S
  <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Measure.Angle" Text="command:ShortText" I
  <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Measure.Arc" Text="command:ShortText" Ico
  <SimpleButton X="0" Y="10" Width="8" Height="2" Command="Measure.BoltSpacing" Text="command:Shor
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  <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Edit.CopySpecial.Linear" Text="command:Sh
  <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Edit.CopySpecial.Mirror" Text="command:Sho
  <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Edit.CopySpecial.Rotate" Text="command:Sh
  <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Edit.CopySpecial.ToAnotherObject" Text="cor
  <SimpleButton X="0" Y="8" Width="8" Height="3" Command="Edit.CopySpecial.AllContentToAnotherObject"
  <SimpleButton X="0" Y="11" Width="8" Height="2" Command="Edit.CopySpecial.ToAnotherPlane" Text="co
  <SimpleButton X="0" Y="13" Width="8" Height="2" Command="Edit.CopySpecial.FromAnotherModel" Text="
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  <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Edit.MoveSpecial.Rotate" Text="command:Sh
  <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Edit.MoveSpecial.Mirror" Text="command:Sho
  <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Edit.MoveSpecial.ToAnotherPlane" Text="com
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  <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Modeling.CreateRadialGrid" Text="command:
  <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Modeling.AddGridLine" Text="command:FullT
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    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Points.AddOnLine" Text="command:ShortTex
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Points.AddOnPlane" Text="command:ShortTe
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Points.AddParallelToTwoPoints" Text="comma
    <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Points.AddAlongExtensionOfTwoPoints" Text=
    <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Points.AddProjectedPointsOnLine" Text="com
    <SimpleButton X="0" Y="10" Width="8" Height="3" Command="Points.AddUsingCenterAndArcPoints" Text="
    <SimpleButton X="0" Y="13" Width="8" Height="3" Command="Points.AddUsingThreeArcPoints" Text="comm
    <SimpleButton X="0" Y="16" Width="8" Height="2" Command="Points.AddTangentToCircle" Text="comman
    <SimpleButton X="0" Y="18" Width="8" Height="2" Command="Points.AddAtAnyPosition" Text="command:S
    <SimpleButton X="0" Y="20" Width="8" Height="2" Command="Points.AddBoltPoints" Text="command:Shor
    <SimpleButton X="0" Y="22" Width="8" Height="2" Command="Points.AddAtIntersectionOfTwoLines" Text="
    <SimpleButton X="0" Y="24" Width="8" Height="2" Command="Points.AddAtIntersectionOfPlaneAndLine" Te
    <SimpleButton X="0" Y="26" Width="8" Height="2" Command="Points.AddAtIntersectionOfPartAndLine" Text
    <SimpleButton X="0" Y="28" Width="8" Height="2" Command="Points.AddAtIntersectionOfCircleAndLine" Te
    <SimpleButton X="0" Y="30" Width="8" Height="2" Command="Points.AddAtIntersectionOfTwoPartAxes" Tex
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    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Modeling.AddConstructionCircle" Text="comm
    <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Modeling.AddConstructionArc" Text="comma
    <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Modeling.AddConstructionPolycurve" Text="c
    <SimpleButton X="0" Y="10" Width="8" Height="2" Command="Modeling.AddConstructionObjectWithOffset"
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    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Modeling.Variables" Text="command:FullText
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    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="View.CreateModelViewUsingTwoPoints" Text=
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="View.CreateModelViewUsingThreePoints" Text
    <SimpleButton X="0" Y="6" Width="8" Height="2" Command="View.CreateModelViewOnWorkPlane" Text="c
    <SimpleButton X="0" Y="8" Width="8" Height="2" Command="View.CreateModelViewAlongGridLines" Text=
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    <SimpleButton X="0" Y="13" Width="8" Height="2" Command="View.CreateModelViewOnPartFrontPlane" Te
    <SimpleButton X="0" Y="15" Width="8" Height="2" Command="View.CreateModelViewOnPartTopPlane" Text
    <SimpleButton X="0" Y="17" Width="8" Height="2" Command="View.CreateModelViewOnPartBackPlane" Tex
    <SimpleButton X="0" Y="19" Width="8" Height="2" Command="View.CreateModelViewOnPartBottomPlane"
    <Separator X="0" Y="21" Width="8" Height="1" Orientation="Horizontal" Thickness="1" />
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    <SimpleButton X="0" Y="24" Width="8" Height="2" Command="View.CreatePartDefaultViews" Text="comma
    <SimpleButton X="0" Y="26" Width="8" Height="2" Command="View.CreatePartUndeformedView" Text="co
    <Separator X="0" Y="28" Width="8" Height="1" Orientation="Horizontal" Thickness="1" />
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  <SimpleButton X="0" Y="0" Width="8" Height="3" Command="View.CreateClipPlane" Text="command:Short
  <SimpleButton X="0" Y="3" Width="8" Height="3" Command="Macro.CatalogMacroModelingItem?Delete All
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  <SimpleButton X="0" Y="3" Width="8" Height="3" Command="View.FitToEntireModel" Text="command:Shor
  <SimpleButton X="0" Y="6" Width="8" Height="3" Command="View.FitToSelectedParts.AllViews" Text="com
  <SimpleButton X="0" Y="9" Width="8" Height="3" Command="View.FitToSelectedParts" Text="command:Sh
  <SimpleButton X="0" Y="12" Width="8" Height="3" Command="View.FitUsingTwoPoints" Text="command:Sl
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  <SimpleButton X="0" Y="0" Width="8" Height="3" Command="Views.RedrawAll" Text="command:FullText" I
  <SimpleButton X="0" Y="3" Width="8" Height="3" Command="Views.UpdateAll" Text="command:ShortText"
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  <SimpleButton X="0" Y="3" Width="8" Height="3" Command="View.SetWorkPlane.ParallelToXYZ" Text="con
  <SimpleButton X="0" Y="6" Width="8" Height="3" Command="View.SetWorkPlane.UsingOnePoint" Text="co
  <SimpleButton X="0" Y="9" Width="8" Height="3" Command="View.SetWorkPlane.UsingTwoPoints" Text="c
  <SimpleButton X="0" Y="12" Width="8" Height="3" Command="View.SetWorkPlane.UsingThreePoints" Text=
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  <SimpleButton X="0" Y="2" Width="8" Height="3" Command="Representation.Parts.ShadedWireframe" Text
  <SimpleButton X="0" Y="5" Width="8" Height="2" Command="Representation.Parts.HiddenLines" Text="con
  <SimpleButton X="0" Y="7" Width="8" Height="2" Command="Representation.Parts.Rendered" Text="comm
  <SimpleButton X="0" Y="9" Width="8" Height="2" Command="Representation.Parts.ShowOnlySelected" Text
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  <SimpleButton X="0" Y="17" Width="8" Height="2" Command="Representation.Components.HiddenLines" T
  <SimpleButton X="0" Y="19" Width="8" Height="2" Command="Representation.Components.Rendered" Text
  <SimpleButton X="0" Y="21" Width="8" Height="3" Command="Representation.Components.ShowOnlySelec
  <SimpleButton X="0" Y="24" Width="8" Height="3" Command="Representation.ShowComponentContent" Te
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<SplitButton X="30" Y="0" Width="4" Height="4" Command="Visualizer.VisualizeAll" Text="translation:lbl_Vis
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  <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Visualizer.VisualizeAll" Text="command:FullT
  <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Visualizer.MaterialTypeMapping" Text="comm
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<SimpleButton X="34" Y="0" Width="8" Height="2" Command="View.TogglePerspective" Text="command:Ful
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  <SimpleButton X="0" Y="4" Width="8" Height="2" Command="View.Pan" Text="command:FullText" Icon="c
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  <SimpleButton X="0" Y="2" Width="8" Height="2" Command="View.ZoomOutSpecial" Text="command:FullT
  <SimpleButton X="0" Y="4" Width="8" Height="2" Command="View.ZoomOriginal" Text="command:FullText
  <SimpleButton X="0" Y="6" Width="8" Height="2" Command="View.ZoomPrevious" Text="command:FullTex
```

```
    <SimpleButton X="0" Y="8" Width="8" Height="3" Command="View.ZoomToSelected" Text="command:FullT
  </DropdownButton>
  <SimpleButton X="42" Y="0" Width="8" Height="1" Command="View.Fly" Text="command:FullText" Icon="co
  <SimpleButton X="42" Y="1" Width="8" Height="1" Command="View.Properties" Text="command:FullText" Ic
  <SimpleButton X="42" Y="2" Width="8" Height="1" Command="Representation.ObjectRepresentation" Text="
  <DropdownButton X="42" Y="3" Width="8" Height="1" Text="translation:albl_Snapshot" Icon="resource:Brush
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Tools.Screenshot" Text="command:FullText"
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Tools.CreatePreviewImage" Text="command:
  </DropdownButton>
</Tab>
<Tab Header="translation:ribbon_Drawings_reports" IsCollapsed="false" IsUserDefined="false">
  <SimpleButton X="0" Y="0" Width="4" Height="4" Command="Drawing.DrawingList" Text="command:ShortTe
  <DropdownButton X="4" Y="0" Width="5" Height="4" Text="translation:ribbon_Drawing_properties" Icon="res
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Drawing.SinglePartDrawingProperties" Text="
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Drawing.AssemblyDrawingProperties" Text="
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Drawing.GeneralArrangementDrawingPropert
    <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Drawing.CastUnitDrawingProperties" Text="c
    <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Drawing.MultiDrawingProperties" Text="comm
    <SimpleButton X="0" Y="10" Width="8" Height="2" Command="Drawing.DrawingLayout" Text="command:F
  </DropdownButton>
  <SplitButton X="9" Y="0" Width="4" Height="4" Command="Drawing.CreateDrawing" Text="command:ShortT
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Drawing.CreateDrawing" Text="command:Fu
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Drawing.CreateSinglePartDrawing" Text="cor
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Drawing.CreateAssemblyDrawing" Text="com
    <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Drawing.CreateCastUnitDrawing" Text="comm
    <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Drawing.CreateGeneralArrangementDrawing"
  </SplitButton>
  <DropdownButton X="13" Y="0" Width="8" Height="2" Text="translation:albl_Perform_numbering" Icon="reso
    <SimpleButton X="0" Y="0" Width="8" Height="3" Command="Numbering.NumberSeriesOfSelectedObjects"
    <SimpleButton X="0" Y="3" Width="8" Height="2" Command="Numbering.NumberWelds" Text="command:F
    <SimpleButton X="0" Y="5" Width="8" Height="2" Command="Numbering.NumberModifiedObjects" Text="c
  </DropdownButton>
  <DropdownButton X="13" Y="2" Width="8" Height="2" Text="translation:j_d_j_Multi_drawing" Icon="resource:
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Drawing.CreateEmptyMultiDrawing" Text="co
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Drawing.CreateMultiDrawing.FromSelectedDr
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Drawing.CreateMultiDrawing.FromSelectedDr
    <SimpleButton X="0" Y="6" Width="8" Height="3" Command="Drawing.CreateMultiDrawing.FromSinglePartD
    <SimpleButton X="0" Y="9" Width="8" Height="3" Command="Drawing.CreateMultiDrawing.FromSinglePartD
    <SimpleButton X="0" Y="12" Width="8" Height="3" Command="Drawing.CreateMultiDrawing.FromAssembly
    <SimpleButton X="0" Y="15" Width="8" Height="4" Command="Drawing.CreateMultiDrawing.FromAssembly
  </DropdownButton>
  <DropdownButton X="21" Y="0" Width="8" Height="2" Text="translation:albl_Numbering_settings" Icon="reso
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Numbering.Settings" Text="command:FullTex
    <SimpleButton X="0" Y="2" Width="8" Height="3" Command="Numbering.SavePreliminaryNumbers" Text="
    <SimpleButton X="0" Y="5" Width="8" Height="2" Command="Numbering.AssignControlNumbers" Text="co
    <SimpleButton X="0" Y="7" Width="8" Height="3" Command="Numbering.ToggleLockControlNumbers" Text
  </DropdownButton>
  <DropdownButton X="21" Y="2" Width="8" Height="2" Text="translation:lbl_Change_Number" Icon="resource
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Numbering.ChangePartNumber" Text="comm
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Numbering.ChangeAssemblyNumber" Text="
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Numbering.ChangePartMultiNumber" Text="c
    <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Numbering.ChangeAssemblyMultiNumber" Te
    <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Numbering.ChangeFamilyNumber" Text="cor
```

```
    <Separator X="0" Y="10" Width="8" Height="1" Orientation="Horizontal" Thickness="1" />
    <SimpleButton X="0" Y="11" Width="8" Height="2" Command="Numbering.ClearPartAndAssemblyNumbers"
    <SimpleButton X="0" Y="13" Width="8" Height="2" Command="Numbering.ClearPartNumbers" Text="comm
    <SimpleButton X="0" Y="15" Width="8" Height="2" Command="Numbering.ClearAssemblyNumbers" Text="
    <SimpleButton X="0" Y="17" Width="8" Height="2" Command="Numbering.ClearRebarNumbers" Text="com
  </DropdownButton>
  <SimpleButton X="29" Y="0" Width="3" Height="4" Command="Reports.CreateReport" Text="command:Shor
</Tab>
<Tab Header="translation:ribbon_Manage" IsCollapsed="false" IsUserDefined="false">
  <SimpleButton X="0" Y="0" Width="5" Height="4" Command="Tools.Organizer" Text="command:FullText" Ico
  <SimpleButton X="5" Y="0" Width="8" Height="2" Command="Tools.PhaseManager" Text="command:ShortTe
  <SimpleButton X="5" Y="2" Width="8" Height="2" Command="Tools.ClashCheckManager" Text="command:Sh
  <SimpleButton X="13" Y="0" Width="8" Height="2" Command="Tools.ConvertIFCObjects" Text="command:Fu
  <SimpleButton X="13" Y="2" Width="8" Height="2" Command="Tools.LayoutManager" Text="command:FullTe
  <SimpleButton X="21" Y="0" Width="3" Height="4" Command="LockManager.ObjectLocks" Text="command:S
  <SimpleButton X="24" Y="0" Width="8" Height="1" Command="Tools.TaskManager" Text="command:ShortTe
  <SimpleButton X="24" Y="1" Width="8" Height="1" Command="Tools.Sequencer" Text="command:FullText" I
  <SimpleButton X="24" Y="2" Width="8" Height="1" Command="Tools.Lotting" Text="command:FullText" Icon
  <SimpleButton X="24" Y="3" Width="8" Height="1" Command="Tools.ProjectStatusVisualization" Text="comm
</Tab>
<Tab Header="translation:ribbon_Analysis_design" IsCollapsed="false" IsUserDefined="false">
  <SimpleButton X="0" Y="0" Width="6" Height="4" Command="Analysis.AnalysisAndModels" Text="command:
  <SimpleButton X="6" Y="0" Width="4" Height="4" Command="Loads.LoadGroups" Text="command:ShortText
  <SplitButton X="10" Y="0" Width="4" Height="4" Command="Loads.CreateLineLoad" Text="translation:albl_L
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Loads.CreateLineLoad" Text="command:Shor
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Loads.CreatePointLoad" Text="command:Sho
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Loads.CreateAreaLoad" Text="command:Sho
    <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Loads.CreateUniformLoad" Text="command:S
    <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Loads.CreateWindLoad" Text="command:Sho
    <SimpleButton X="0" Y="10" Width="8" Height="2" Command="Loads.CreateTemperatureLoad" Text="comm
  </SplitButton>
  <SimpleButton X="14" Y="0" Width="4" Height="4" Command="Analysis.CreateNode" Text="command:Short
  <SimpleButton X="18" Y="0" Width="8" Height="2" Command="Analysis.CreateRigidLink" Text="command:Sh
  <SimpleButton X="18" Y="2" Width="8" Height="2" Command="Analysis.MergeSelectedNodes" Text="comma
  <DropdownButton X="26" Y="0" Width="8" Height="2" Text="translation:ribbon_Part_analysis_properties" Icon
    <SimpleButton X="0" Y="0" Width="8" Height="1" Command="Analysis.SteelBeamProperties" Text="comma
    <SimpleButton X="0" Y="1" Width="8" Height="1" Command="Analysis.SteelOrthogonalBeamProperties" Tex
    <SimpleButton X="0" Y="2" Width="8" Height="1" Command="Analysis.SteelColumnProperties" Text="comm
    <SimpleButton X="0" Y="3" Width="8" Height="1" Command="Analysis.SteelTwinProfileProperties" Text="co
    <SimpleButton X="0" Y="4" Width="8" Height="1" Command="Analysis.SteelContourPlateProperties" Text="
    <Separator X="0" Y="5" Width="8" Height="1" Orientation="Horizontal" Thickness="1" />
    <SimpleButton X="0" Y="6" Width="8" Height="1" Command="Analysis.ConcretePadFootingProperties" Text=
    <SimpleButton X="0" Y="7" Width="8" Height="1" Command="Analysis.ConcreteStripFootingProperties" Text
    <SimpleButton X="0" Y="8" Width="8" Height="1" Command="Analysis.ConcreteColumnProperties" Text="c
    <SimpleButton X="0" Y="9" Width="8" Height="1" Command="Analysis.ConcreteBeamProperties" Text="con
    <SimpleButton X="0" Y="10" Width="8" Height="1" Command="Analysis.ConcreteSlabProperties" Text="con
    <SimpleButton X="0" Y="11" Width="8" Height="1" Command="Analysis.ConcretePanelProperties" Text="co
  </DropdownButton>
  <DropdownButton X="26" Y="2" Width="8" Height="2" Text="translation:ribbon_Load_properties" Icon="resou
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="Loads.LineLoadProperties" Text="command:S
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="Loads.PointLoadProperties" Text="command:
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="Loads.AreaLoadProperties" Text="command:S
    <SimpleButton X="0" Y="6" Width="8" Height="2" Command="Loads.UniformLoadProperties" Text="comma
```

```
    <SimpleButton X="0" Y="8" Width="8" Height="2" Command="Loads.WindLoadProperties" Text="command:
    <SimpleButton X="0" Y="10" Width="8" Height="2" Command="Loads.TemperatureLoadProperties" Text="c
  </DropdownButton>
  <SimpleButton X="34" Y="0" Width="8" Height="2" Command="Analysis.ResetEditingOfSelectedParts" Text="
  <SimpleButton X="34" Y="2" Width="8" Height="2" Command="Analysis.PartProperties" Text="command:Full
  <CheckButton X="42" Y="0" Width="8" Height="1" Command="Analysis.ToggleShowNodeNumbers" Text="co
  <CheckButton X="42" Y="1" Width="8" Height="1" Command="Analysis.ToggleShowMemberNumbers" Text="
 </Tab>
 <Tab Header="translation:Commands.Export.TrimbleConnector.ShortText" IsCollapsed="false" IsUserDefined="f
  <SplitButton X="0" Y="0" Width="4" Height="4" Command="TrimbleConnect.Web" Text="command:FullText"
    <SimpleButton X="0" Y="0" Width="8" Height="2" Command="TrimbleConnect.ProjectData" Text="comman
    <SimpleButton X="0" Y="2" Width="8" Height="2" Command="TrimbleConnect.ProjectModel" Text="comma
    <SimpleButton X="0" Y="4" Width="8" Height="2" Command="TrimbleConnect.ProjectTeam" Text="commar
  </SplitButton>
  <SimpleButton X="4" Y="0" Width="4" Height="4" Command="TrimbleConnect.ProjectPublish" Text="commar
  <SimpleButton X="8" Y="0" Width="4" Height="4" Command="TrimbleConnect.ConnectorModels" Text="com
  <SimpleButton X="12" Y="0" Width="4" Height="4" Command="TrimbleConnect.ConnectorTodos" Text="com
  <SimpleButton X="16" Y="0" Width="4" Height="4" Command="TrimbleConnect.Desktop" Text="command:Sh
  <SimpleButton X="20" Y="0" Width="2" Height="2" Command="TrimbleConnect.AdjustTsView" Text="comma
  <SimpleButton X="20" Y="2" Width="2" Height="2" Command="TrimbleConnect.SelectTsObjects" Text="com
  <SimpleButton X="22" Y="0" Width="2" Height="2" Command="TrimbleConnect.AdjustTcdView" Text="comm
  <SimpleButton X="22" Y="2" Width="2" Height="2" Command="TrimbleConnect.SelectTcdObjects" Text="con
 </Tab>
 <Tab Header="□□□□      " IsCollapsed="false" IsUserDefined="false">
  <SimpleButton X="0" Y="0" Width="3" Height="4" Command="Plugin.CatalogPluginComponentItem?SC
□□□□□□□□□□□□              " Text="□□□□      " Icon="D:\□□□□      \BIM□□□□      \TSEP□□   \□□□□□□□          \□□
\favicon.ico" ShowText="true" ShowIcon="true" />
  <CheckButton X="3" Y="0" Width="3" Height="4" Command="Plugin.CatalogPluginComponentItem?SC
□□□□□□□        32□□□    " Text="□□□□      " Icon="D:\□□□□      \BIM□□□□      \TSEP□□   \□□□□□□□          \□□
\favicon (3).ico" ShowText="true" ShowIcon="true" />
  <CheckButton X="6" Y="0" Width="3" Height="4" Command="Plugin.CatalogPluginComponentItem?SC
□□□□□□□        29□ " Text="□□□□      " Icon="D:\□□□□      \BIM□□□□      \TSEP□□   \□□□□□□□          \□□
\favicon (2).ico" ShowText="true" ShowIcon="true" />
  <CheckButton X="9" Y="0" Width="3" Height="4" Command="Plugin.CatalogPluginComponentItem?SC
□□□□□      38□□□    " Text="□□□□      " Icon="D:\□□□□      \BIM□□□□      \TSEP□□   \□□□□□□□          \□□
\favicon (1).ico" ShowText="true" ShowIcon="true" />
 </Tab>
</Ribbon>
```

□□□□

```
string str = "□□□□      \r\n\r\n";
DrawingHandler drawingHandler = new DrawingHandler();//□□□□□□□□
var  drawings= drawingHandler.GetDrawings();//□□□□□□
while (drawings.MoveNext())
{
   str += "□□□□□       " + drawings.Current.Name + "\r\n\r\n";
   str += "□□□□□       " + drawings.Current.GetType() + "\r\n\r\n";
   str += "□□□□□       " + drawings.Current.Mark + "\r\n\r\n";
   str += "□□□□□       " + ((drawings.Current as Drawing).IsFrozen == true ? "□□   " : "□□□     ") + "\r\n\r\n";
```

```
    str += "□□□□□        " + ((drawings.Current as Drawing).IsLocked == true ? "□□   " : "□□□    ") + "\r\n\r\n";
    str += "□□    1□ " + drawings.Current.Title1 + "\r\n\r\n";
  }
  return str;
```

Tekla□□□□□

Tekla.Structures.Dialog.ApplicationFormBase

□□□□□□□

```
   public partial class Form1 : ApplicationFormBase
   {
           public Form1()
      {
         InitializeComponent();
         InitializeForm();
         if (GetConnectionStatus())
         {
            string messageFolder = null;
            TeklaStructuresSettings.GetAdvancedOption("XS_MESSAGES", ref messageFolder);
            messageFolder = Path.Combine(messageFolder, @"DotAppsStrings");
            Dialogs.SetSettings(string.Empty);
            Localization.Language = (string)Settings.GetValue("language");
            Localization.LoadFile(Path.Combine(messageFolder, Application.ProductName + ".xml"));
            Localization.Localize(this);
         }
         else
         {
            MessageBox.Show("Tekla Structures is NOT running...");
         }
      }
//□ Tekla□□□□□
 class Program : WindowsFormsApplicationBase
 {
    public Program()
    {
       IsSingleInstance = true;
       EnableVisualStyles = true;
    }
    protected override void OnCreateMainForm()
    {
       MainForm = new Form1();
       MainForm.Show(TeklaStructures.MainWindow);

    }
    protected override void OnStartupNextInstance(StartupNextInstanceEventArgs eventArgs)
    {
       eventArgs.BringToForeground = true;
       base.OnStartupNextInstance(eventArgs);
    }
```

```
    /// <summary>
    /// □□□□□□□□□□
    /// </summary>
    [STAThread]
    static void Main(string[] args)
    {
        if (TeklaStructures.Connect())
        {
            TeklaStructures.Closed += delegate
            {
                Application.Exit();
            };
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            try
            {
                Program program = new Program();
                program.Run(args);
            }
            finally
            {
                TeklaStructures.Disconnect();
            }
        }
    }
}
```

□□□

□□

```
Part beam = new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART) as Part;//□□□□□
string property = "□□□□      \r\n\r\n";
//□□□□
property += "□□   : " + beam.GetType().Name + "\r\n\r\n";//□□
property += "□□   : " + beam.Name + "\r\n\r\n";//□□
property += "□□   : " + beam.Profile.ProfileString + "\r\n\r\n";//□□
property += "□□   : " + beam.Material.MaterialString + "\r\n\r\n";//□□
property += "□□   : " + beam.Finish + "\r\n\r\n";//□□
property += "□□   : " + beam.Class + "\r\n\r\n";//□□
property += "□□□□      : " + beam.PartNumber.Prefix + "\r\n\r\n";//□□□□
property += "□□□□      : " + beam.PartNumber.StartNumber + "\r\n\r\n";//□□□□
property += "□□□□      : " + beam.AssemblyNumber.Prefix + "\r\n\r\n";//□□□□
property += "□□□□      : " + beam.AssemblyNumber.StartNumber + "\r\n\r\n";//□□□□

property += "□□□□□□□□            : " + beam.Position.Depth + "\r\n\r\n";//□□□□□□□□
property += "□□□□      : " + beam.Position.DepthOffset + "\r\n\r\n";//□□□□

if (beam.GetType() == typeof(Beam))
{
```

```
    property += "□□□□      : " + beam.Position.Rotation + "\r\n\r\n";//□□□□
    property += "□□□□      : " + beam.Position.RotationOffset + "\r\n\r\n";//□□□□
    property += "□□□□□□          : " + beam.Position.Plane + "\r\n\r\n";//□□□□□□
    property += "□□□□      : " + beam.Position.PlaneOffset + "\r\n\r\n";//□□□□

    property += "□□   x□□   : " + ((Beam)beam).StartPointOffset.Dx + "\r\n\r\n";//
    property += "□□   y□□   : " + ((Beam)beam).StartPointOffset.Dy + "\r\n\r\n";//
    property += "□□   z□□   : " + ((Beam)beam).StartPointOffset.Dz + "\r\n\r\n";//
    property += "□□   x□□   : " + ((Beam)beam).EndPointOffset.Dx + "\r\n\r\n";//
    property += "□□   y□□   : " + ((Beam)beam).EndPointOffset.Dy + "\r\n\r\n";//
    property += "□□   z□□   : " + ((Beam)beam).EndPointOffset.Dz + "\r\n\r\n";//
    property += "□□□□      : " + beam.DeformingData.Angle + "\r\n\r\n";//□□□□
    property += "□□□□      : " + beam.DeformingData.Angle2 + "\r\n\r\n";//□□□□
    property += "□□   : " + beam.DeformingData.Cambering + "\r\n\r\n";//□□
    property += "□□   : " + beam.DeformingData.Shortening + "\r\n\r\n";//□□
}

textBox1.Text = property;
//□□□□
property = "";
string pos = "";
int pos2 = 0;
double pos1 = 0.0;
Phase phase;
property += "□□□□      " + "\r\n\r\n";
property += "□□□□□□          " + beam.GetReportProperty("PART_POS", ref pos) + "□ " + pos + "\r\n\r\n";
property += "□□□□     " + beam.GetPhase(out phase) + "□ " + phase.PhaseName + "\r\n\r\n";
property += "□□□□     " + beam.GetReportProperty("WEIGHT", ref pos1) + "□ " + pos1 + "\r\n\r\n";
property += "□□□□     " + beam.GetReportProperty("VOLUME", ref pos1) + "□ " + pos1 + "\r\n\r\n";
property += "□□□□     " + beam.GetReportProperty("LENGTH", ref pos1) + "□ " + pos1 + "\r\n\r\n";
property += "□□□□     " + beam.GetAssembly().GetReportProperty("NUMBER", ref pos2) + "□ " + pos2 + "\r\n\r\n";
property += "□□□□□□          " + beam.GetReportProperty("TOP_LEVEL", ref pos) + "□ " + pos + "\r\n\r\n";
property += "□□□□□□          " + beam.GetReportProperty("BOTTOM_LEVEL", ref pos) + "□ " + pos + "\r\n\r\n";
property += "□□□□□□          " + beam.GetAssembly().GetReportProperty("POSITION_CODE", ref pos) + "□
" + pos + "\r\n\r\n";
textBox2.Text = property;
```

□□

```
Weld weld = new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_WELD) as Weld;//□□□□□□
string basicproperty = "□□□□      \r\n\r\n";
basicproperty += "□□□□     " + weld.GetType().Name + "\r\n\r\n";
basicproperty += "□□   -□□□     " + (weld.AroundWeld == true ? "□□   " : "□□   ") + "\r\n\r\n";
basicproperty += "□□   -□□□     " + (weld.ShopWeld == true ? "□□   " : "□□   ") + "\r\n\r\n";
basicproperty += "□□□□     " + weld.Position + "\r\n\r\n";
basicproperty += "□□□□     " + weld.IntermittentType + "\r\n\r\n";

basicproperty += "□□□□□      " + (weld.ConnectAssemblies == true ? "□□□□     " : "□□□□     ") + "\r\n\r\n";//
basicproperty += "□□□□     " + weld.Placement + "\r\n\r\n";
//basicproperty += "□□□□□      " + weld.Preparation + "\r\n\r\n";//□□□□□□□□

basicproperty += "□□□□□□□□          " + weld.PrefixAboveLine + "\r\n\r\n";//□□□□□□□
```

```
 basicproperty += "□□□□□□□□□          " + weld.TypeAbove + "\r\n\r\n";//□□□□□□□□
 basicproperty += "□□□□□□□        " + weld.SizeAbove + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□□□        " + weld.AngleAbove + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□□□□         " + weld.ContourAbove + "\r\n\r\n";//□□□□□□□
 basicproperty += "□□□□□□□□□          " + weld.FinishAbove + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□□□        " + weld.RootFaceAbove + "\r\n\r\n";
 basicproperty += "□□□□□□□□         " + weld.EffectiveThroatAbove + "\r\n\r\n";
 basicproperty += "□□□□□□□□         " + weld.RootOpeningAbove + "\r\n\r\n";
 basicproperty += "□□□□□□□□         " + weld.IncrementAmountAbove + "\r\n\r\n";
 basicproperty += "□□□□□      " + weld.LengthAbove + "\r\n\r\n";
 basicproperty += "□□□□□      " + weld.PitchAbove + "\r\n\r\n";

 basicproperty += "□□□□□□□□         " + weld.PrefixBelowLine + "\r\n\r\n";//□□□□□□□
 basicproperty += "□□□□□□□□□          " + weld.TypeBelow + "\r\n\r\n";//□□□□□□□□
 basicproperty += "□□□□□□□        " + weld.SizeBelow + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□□□        " + weld.AngleBelow + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□□□□         " + weld.ContourBelow + "\r\n\r\n";//□□□□□□□
 basicproperty += "□□□□□□□□□          " + weld.FinishBelow + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□□□        " + weld.RootFaceBelow + "\r\n\r\n";
 basicproperty += "□□□□□□□□         " + weld.EffectiveThroatBelow + "\r\n\r\n";
 basicproperty += "□□□□□□□□         " + weld.RootOpeningBelow + "\r\n\r\n";
 basicproperty += "□□□□□□□□         " + weld.IncrementAmountBelow + "\r\n\r\n";
 basicproperty += "□□□□□      " + weld.LengthBelow + "\r\n\r\n";
 basicproperty += "□□□□□      " + weld.PitchBelow + "\r\n\r\n";

 basicproperty += "NDT□□□□□      " + weld.NDTInspection + "\r\n\r\n";//NDT□□□□
 basicproperty += "□□□□□□□        " + weld.ElectrodeClassification + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□□□        " + weld.ElectrodeStrength + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□□□        " + weld.ElectrodeCoefficient + "\r\n\r\n";//□□□□□□
 basicproperty += "□□□□□      " + weld.ProcessType + "\r\n\r\n";//□□□□□
 basicproperty += "□□□    " + weld.ReferenceText + "\r\n\r\n";
 textBox3.Text = basicproperty;
 //□□□□
 double ww1 = 0.0;
 string ww = "";
 basicproperty = "□□□□     \r\n\r\n";

 basicproperty += "□□□□□      " + weld.GetReportProperty("WELD_NUMBER", ref ww) + "□ " + ww + "\r\n\r\n";
 basicproperty += "□□□□     " + weld.GetReportProperty("WELD_FATHER_NUMBER", ref ww) + "□
" + ww + "\r\n\r\n";
 basicproperty += "□□□    " + weld.GetReportProperty("LENGTH", ref ww1) + "□ " + ww1 + "\r\n\r\n";
 textBox4.Text = basicproperty;
```

□□

```
 double num = 0.0;
 string number = "";
 Assembly assembly = new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_OBJECT) as Assembly;//
□□□□□
 string basicproperty = "□□□□     \r\n\r\n";
 basicproperty += "□□   " + assembly.GetAssemblyType() + "\r\n\r\n";
 basicproperty += "□□   " + assembly.GetReportProperty("ASSEMBLY_WEIGHT", ref num) + "□
```

```
" + num + "\r\n\r\n";
 basicproperty += "□□   " + assembly.GetReportProperty("ASSEMBLY_VOLUME", ref num) + "□
" + num + "\r\n\r\n";
 basicproperty += "□□   " + assembly.GetReportProperty("LENGTH", ref num) + "□ " + num + "\r\n\r\n";
 basicproperty += "□□   " + assembly.GetReportProperty("NUMBER", ref num) + "□ " + num + "\r\n\r\n";
 basicproperty += "□□□    " + assembly.GetReportProperty("ASSEMBLY_TOP_LEVEL", ref number) + "□
" + number + "\r\n\r\n";
 basicproperty += "□□□    " + assembly.GetReportProperty("ASSEMBLY_BOTTOM_LEVEL", ref number) + "□
" + number + "\r\n\r\n";
 basicproperty += "□□□□     " + assembly.GetReportProperty("ASSEMBLY_POSITION_CODE", ref number) + "□
" + number + "\r\n\r\n";
 textBox6.Text = basicproperty;
 basicproperty = "□□□□     \r\n\r\n";
 basicproperty += "□□□□     " + assembly.GetReportProperty("ASSEMBLY_POS", ref number) + "□
" + number + "\r\n\r\n";
 basicproperty += "□□□    " + assembly.GetMainPart().GetReportProperty("PART_POS", ref number) + "□
" + number + "\r\n\r\n";
 var secondes = assembly.GetSecondaries();
 int i = 1;
 foreach (Part part in secondes)
 {
    if (part.GetType() == typeof(Beam))
    {
       basicproperty += string.Format("□□□    {0}□□□
", i) + part.GetReportProperty("PART_POS", ref number) + "□ " + number + "\r\n\r\n";
       basicproperty += string.Format("□□□    {0}□□□    ", i) + part.Profile.ProfileString + "\r\n\r\n";
       if (part.GetWelds().GetSize() > 0)
       {
          var welds = part.GetWelds();
          while (welds.MoveNext())
          {
             basicproperty += string.Format("□□□    {0}□□□□
", i) + (welds.Current as Weld).GetReportProperty("WELD_NUMBER", ref number) + "□ " + number + "\r\n\r\n";
          }

       }
    }

    if (part.GetType() == typeof(ContourPlate))
    {
       basicproperty += string.Format("□□□    {0}□□□
", i) + part.GetReportProperty("PART_POS", ref number) + "□ " + number + "\r\n\r\n";
       basicproperty += string.Format("□□□    {0}□□□    ", i) + part.Profile.ProfileString + "\r\n\r\n";
       if (part.GetWelds().GetSize() > 0)
       {
          var welds = part.GetWelds();
          while (welds.MoveNext())
          {
             basicproperty += string.Format("□□□    {0}□□□□
", i) + (welds.Current as Weld).GetReportProperty("WELD_NUMBER", ref number) + "□ " + number + "\r\n\r\n";
          }
       }
```

```
    }
    i++;
}

textBox5.Text = basicproperty;
```

□□

```
BoltArray boltArray = new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_BOLTGROUP) as BoltArray;//□□□□

string basicproperty = "□□□□      \r\n\r\n";
basicproperty += "□□□□□□          : " + boltArray.PartToBeBolted.GetPartMark() + "\r\n\r\n"
    + "□□□□□□          : " + boltArray.PartToBoltTo.GetPartMark() + "\r\n\r\n"
    + "□□□□□         : " + boltArray.BoltSize + "\r\n\r\n"
    + "□□□□□         : " + (boltArray.BoltSize + boltArray.Tolerance) + "\r\n\r\n"
    + "□□□□       : " + boltArray.BoltType + "\r\n\r\n"
    + "□□□□        : " + boltArray.BoltStandard + "\r\n\r\n"
     + "□□□□        : " + boltArray.BoltStandard + "\r\n\r\n"
     + "□□□□□□           : " + boltArray.Length + "\r\n\r\n"
     + "□□□□□□           : " + boltArray.ExtraLength + "\r\n\r\n"
     + "□□□□□□           : " + boltArray.CutLength + "\r\n\r\n"
     + "□□□□□□□□□              : " + boltArray.ThreadInMaterial + "\r\n\r\n"
      + "□□□□         : " + boltArray.Position.Plane + "\r\n\r\n"
       + "□□□□         : " + boltArray.Position.Rotation + "-" + boltArray.Position.RotationOffset + "\r\n\r\n"
        + "□□□□□          : " + (boltArray.Bolt == true ? "□ " : "□ ") + "\r\n\r\n"
         + "□□□□□         1□□   :" + (boltArray.Washer1 == true ? "□ " : "□ ") + "\r\n\r\n"
         + "□□□□□         1□□   :" + (boltArray.Washer2 == true ? "□ " : "□ ") + "\r\n\r\n"
          + "□□□□□         2□□   :" + (boltArray.Washer3 == true ? "□ " : "□ ") + "\r\n\r\n"
           + "□□   1□□   :" + (boltArray.Nut1 == true ? "□ " : "□ ") + "\r\n\r\n"
           + "□□   2□□   :" + (boltArray.Nut2 == true ? "□ " : "□ ") + "\r\n\r\n"
           + "□□□     5□ :" + (boltArray.Hole1 == true ? "□ " : "□ ") + "\r\n\r\n"
           + "□□□□□         :" + (boltArray.HoleType == BoltGroup.BoltHoleTypeEnum.HOLE_TYPE_OVERSIZED ? "□ " : "□ ") + "\r\n\r\n"
           + "□□□□□□□□□□              :" + (boltArray.BoltSize + boltArray.Tolerance + boltArray.SlottedHoleX) + "\r\n\r\n"
            + "□□□     :" + boltArray.RotateSlots + "\r\n\r\n"
            + "x□□□□□□          :" + boltArray.GetBoltDistX(0).ToString() + "\r\n\r\n"
             + "y□□□□□□          :" + boltArray.GetBoltDistY(0).ToString() + "\r\n\r\n"
              + "□□   Dx□□   :" + boltArray.StartPointOffset.Dx + "\r\n\r\n"
              + "□□   Dx□□   :" + boltArray.EndPointOffset.Dx + "\r\n\r\n";
textBox8.Text = basicproperty;
int t = 0;
string str = "";
basicproperty = "□□□□      \r\n\r\n";

basicproperty += "□□□□□□□
" + boltArray.GetReportProperty("SECONDARY_1.ASSEMBLY_POS", ref str) + "-" + str + "\r\n\r\n";
basicproperty += "□□□□□
" + boltArray.GetReportProperty("CONNECTED_ASSEMBLIES", ref str) + "-" + str + "\r\n\r\n";
basicproperty += "□□□□□
" + boltArray.GetReportProperty("CONNECTED_PARTS", ref str) + "-" + str + "\r\n\r\n";
basicproperty += "□□□□□        " + boltArray.GetReportProperty("NUMBER", ref t) + "-" + t + "\r\n\r\n";
```

```
textBox7.Text = basicproperty;
```

□□□□□

```
string t1 = "", t2 = "", t3 = "", t4 = "", t5 = "";
CatalogHandler catalogHandler = new CatalogHandler();//□□□□□

if (catalogHandler.GetConnectionStatus())//□□□□□
{
    ComponentItemEnumerator componentItemEnumerator = catalogHandler.GetComponentItems();//
□□□□□□□□□□
    //t1 = componentItemEnumerator.GetSize().ToString() + "\r\n\r\n";//□□□□□□□
    while (componentItemEnumerator.MoveNext())//□□□□□□□□□□□□□□□□
    {
        if (componentItemEnumerator.Current.Name == "DkBoltCommon")
        {
            t1 += "□□□□      :" + (componentItemEnumerator.Current as ComponentItem).Name + "\r\n\r\n"
                + "□□□□      :" + componentItemEnumerator.Current.Name + "\r\n\r\n"
                + "□□   UI:" + componentItemEnumerator.Current.UIName + "\r\n\r\n"
                 + "□□□□      :" + componentItemEnumerator.Current.Type;
        }
        componentItemEnumerator.Current.Select(componentItemEnumerator.Current.Name, componentItemEnum
        t2 += "□□□□      :" + componentItemEnumerator.Current.Number + "\r\n\r\n";//□□□□
        t3 += "UI□□   :" + componentItemEnumerator.Current.UIName + "\r\n\r\n";//□□   UI□□□□
        switch (componentItemEnumerator.Current.Type.ToString()) //□□□
switch(){case :beak;....default :break;}//□□□□□□□□□
        {
            case "UNKNOWN":
                t4 += "□□□□      " + "\r\n\r\n";
                break;
            case "CONNECTION":
                t4 += "□□□□      " + "\r\n\r\n";
                break;
            case "COMPONENT":
                t4 += "□□□□□□□          " + "\r\n\r\n";
                break;
            case "SEAM":
                t4 += "□□□□      " + "\r\n\r\n";
                break;
            case "DETAIL":
                t4 += "□□□□      " + "\r\n\r\n";
                break;
            case "CUSTOM_PART":
                t4 += "□□□□□□□          " + "\r\n\r\n";
                break;
            case "DRAWING_PLUGIN":
                t4 += "□□□□      " + "\r\n\r\n";
                break;
            default:
                t4 += "□□□□□□□          " + "\r\n\r\n";
                break;
        }
```

```
    }
 }
 textBox9.Text = t1;
 textBox10.Text = t2;
 textBox15.Text = t3;
 textBox16.Text = t4;
```

□□□

```
 string str = "";
 int t = 0;
 Part castA = new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART) as Part;//□□□□□□
 Assembly cast = castA.GetAssembly();//□□□□□□□□□□□□□□□□
 string castproperty = "□□□□      \r\n\r\n";
 castproperty += "□□□□□        " + castA.GetAssembly().GetType().Name + "\r\n\r\n";
 castproperty += "□□   ID□ " + castA.Identifier.ToString() + "\r\n\r\n";//□□
 castproperty += "□□□□□        " + castA.GetReportProperty("PART_POS", ref str) + "□ " + str + "\r\n\r\n";
 castproperty += "□□□□□        " + castA.GetReportProperty("NUMBER", ref t) + "□ " + t + "\r\n\r\n";
 castproperty += "□□□□□        " + castA.GetReportProperty("PHASE.NAME", ref str) + "□ " + str + "\r\n\r\n";
 castproperty += "□□□□□        " + castA.Name + "\r\n\r\n";
 castproperty += "□□□□□□□          " + castA.GetAssembly().GetReportProperty("POSITION_CODE", ref str) + "□
" + str + "\r\n\r\n";
 castproperty += "□□□□□□□          " + castA.GetReportProperty("TOP_LEVEL", ref str) + "□ " + str + "\r\n\r\n";
 castproperty += "□□□□□□□          " + castA.GetReportProperty("BOTTOM_LEVEL", ref str) + "□ " + str + "\r\n\r\n";
 textBox12.Text = castproperty;
 castproperty = "□□□□□        \r\n\r\n";
 castproperty += "□□□□□        " + cast.GetAssemblyType().ToString() + "\r\n\r\n";
 castproperty += "□□□    ID□ " + cast.Identifier.ToString() + "\r\n\r\n";//□□
 castproperty += "□□□□□□          " + cast.GetReportProperty("CAST_UNIT_POS", ref str) + "□ " + str + "\r\n\r\n";
 castproperty += "□□□□□□          " + cast.GetReportProperty("NUMBER", ref t) + "□ " + t + "\r\n\r\n";
 castproperty += "□□□□□□          " + cast.GetReportProperty("PHASE.NAME", ref str) + "□ " + str + "\r\n\r\n";
 castproperty += "□□□□□□          " + cast.GetReportProperty("MAINPART.NAME", ref str) + "□ " + str + "\r\n\r\n";
 castproperty += "□□□□□□□□          " + cast.GetReportProperty("CAST_UNIT_POSITION_CODE", ref str) + "□
" + str + "\r\n\r\n";
 castproperty += "□□□□□□□□          " + cast.GetReportProperty("TOP_LEVEL", ref str) + "□ " + str + "\r\n\r\n";
 castproperty += "□□□□□□□□          " + cast.GetReportProperty("BOTTOM_LEVEL", ref str) + "□ " + str + "\r\n\r\n";
 textBox11.Text = castproperty;
```

□□

```
 ArrayList arrayList = new ArrayList();//□□
 Part castA = new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART) as Part;//□□□□□□
 int t = 0;
 double st = 0.0;
 string str = "";
 string castproperty = "□□□□      \r\n\r\n";
 string castproperty2 = "□□□□      \r\n\r\n";
 var rebars = castA.GetChildren();//□□□□□        \□□□□□□□□□□□□□□□□□□□
 //while (rebars.MoveNext())
 //{
```

```
//    if (rebars.Current.GetType() == typeof(RebarGroup)
//        || rebars.Current.GetType() == typeof(SingleRebar)
//        || rebars.Current.GetType() == typeof(RebarSet))//
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
//    {
//        arrayList.Add(rebars.Current);
//        castproperty += "□□□□□        " + rebars.Current.GetType() + "\r\n\r\n";
//        castproperty += "□□□□□        " + rebars.Current.GetReportProperty("REBAR_POS", ref str) + "□
" + str + "\r\n\r\n";
//        castproperty += "□□□□□        " + rebars.Current.GetReportProperty("NUMBER", ref t) + "□ " + t + "\r\n\r\n";
//        castproperty += "□□□□□        " + rebars.Current.GetReportProperty("GRADE", ref str) + "□
" + str + "\r\n\r\n";
//        castproperty += "□□□□□        " + rebars.Current.GetReportProperty("SIZE", ref str) + "□ " + str + "\r\n\r\n";
//        castproperty += "□□□□□        " + rebars.Current.GetReportProperty("LENGTH", ref st) + "□
" + st + "\r\n\r\n";
//        castproperty += "□□□□□        " + rebars.Current.GetReportProperty("WEIGHT", ref st) + "□
" + st + "\r\n\r\n";
//        castproperty += "□□□□□        " + st * t + "\r\n\r\n";

//        //□□□□□□□□□□□□□□□□
//        castproperty2 += "□□□□□        " + rebars.Current.GetReportProperty("SHAPE", ref str) + "□
" + str + "\r\n\r\n";
//    }

//}
textBox14.Text = castproperty;
textBox13.Text = castproperty2;
```

□□□□□□

```
string str = "□□□□      \r\n\r\n";
DrawingHandler drawingHandler = new DrawingHandler();//□□□□□□□□
var  drawings= drawingHandler.GetDrawings();//□□□□□□
while (drawings.MoveNext())
{
    str += "□□□□□        " + drawings.Current.Name + "\r\n\r\n";
    str += "□□□□□        " + drawings.Current.GetType() + "\r\n\r\n";
    str += "□□□□□        " + drawings.Current.Mark + "\r\n\r\n";
    str += "□□□□□        " + ((drawings.Current as Drawing).IsFrozen == true ? "□□   " : "□□□     ") + "\r\n\r\n";
    str += "□□□□□        " + ((drawings.Current as Drawing).IsLocked == true ? "□□   " : "□□□     ") + "\r\n\r\n";
    str += "□□    1□ " + drawings.Current.Title1 + "\r\n\r\n";
}
return str;
```

□□□□□□□□

```
double thickness = 0.0, length = 0.0, weight = 0.0, width = 0.0;
Part part = new Picker().PickObject(Picker.PickObjectEnum.PICK_ONE_PART) as Part;//□□□□
string str = "□□□□      \r\n\r\n";//□□□□□
str += "□□   :" + part.Profile.ProfileString + "\r\n\r\n";
str += "□□   :" + part.Material.MaterialString + "\r\n\r\n";
```

```
str += "□□   :" + part.GetReportProperty("LENGTH", ref length) + "-" + length + "\r\n\r\n";
str += "□□   :" + part.GetReportProperty("WEIGHT", ref weight) + "-" + weight + "\r\n\r\n";
textBox20.Text = str;
double weights = 0.0;
part.GetReportProperty("FLANGE_THICKNESS_U", ref thickness);
part.GetReportProperty("FLANGE_WIDTH_U", ref width);
part.GetReportProperty("FLANGE_LENGTH_U", ref length);
str = "□□□□      \r\n\r\n";//□□□□□
str += "□□□□□□□□          " + "PL" + thickness + "*" + width + "\r\n\r\n";
str += "□□□□□□□□          " + length + "\r\n\r\n";
//weights += (7.85 * thickness * width * length / 1000000);
//str += "□□□□□□□□          " +weights+ "\r\n\r\n";
//□□
part.GetReportProperty("PROFILE.WEB_THICKNESS", ref thickness);
part.GetReportProperty("WEB_WIDTH", ref width);
part.GetReportProperty("WEB_LENGTH", ref length);
str += "□□□□□       " + "PL" + thickness + "*" + width + "\r\n\r\n";
str += "□□□□□       " + length + "\r\n\r\n";
//weights += (7.85 * thickness * width * length / 1000000);
//str += "□□□□□       " + (7.85 * thickness * width * length / 1000000) + "\r\n\r\n";
//□□□□
part.GetReportProperty("FLANGE_THICKNESS_B", ref thickness);
part.GetReportProperty("FLANGE_WIDTH_B", ref width);
part.GetReportProperty("FLANGE_LENGTH_B", ref length);
str += "□□□□□□□          " + "PL" + thickness + "*" + width + "\r\n\r\n";
str += "□□□□□□□          " + length + "\r\n\r\n";
//weights += (7.85 * thickness * width * length / 1000000);
//str += "□□□□□□□          " + (7.85 * thickness * width * length / 1000000) + "\r\n\r\n";
//str += "□□   "+weights;
textBox19.Text = str;
```

□□□□□□□□□□□

```
Tekla.Structures.Dialog.UIControls.ComponentCatalog componentCatalog1;
private void Component_Click(object sender, EventArgs e)
{
   componentCatalog1.SelectedName = textBox9.Text;
   componentCatalog1.SelectedNumber =
      string.IsNullOrEmpty(textBox10.Text) ? Constants.XS_DEFAULT : int.Parse(textBox10.Text);

}

private void Component_selectionDone(object sender, EventArgs e)
{
   SetAttributeValue(textBox9, componentCatalog1.SelectedName);
   SetAttributeValue(textBox10, componentCatalog1.SelectedNumber);
}
```

```
//□□□
namespace Tekla.Technology.Akit.UserScript
{
    public class Script
    {
        public static void Run(Tekla.Technology.Akit.IScript akit)
        {
            // akit.Callback("acmd_partnumbers_all", "", "main_frame");
            akit.Callback("acmd_partnumbers_selected", "", "main_frame");
        }
    }
}
```