



Plateia

by **CGS Labs**



Editing profile labels in the .xml file Tutorial





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Editing profile labels in the .xml file

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Title: **Editing profile labels in the .xml file**

Document date: 06. 04. 2021

Version: 1.0.

Printing: CGS Labs d.o.o.

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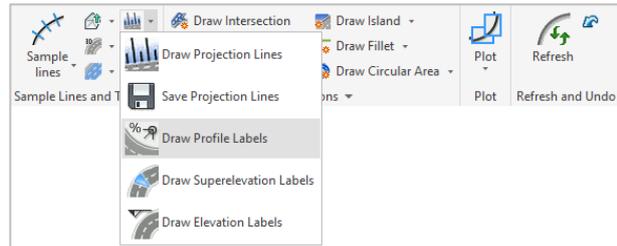
INTRODUCTION

In this tutorial you will learn how to change the properties of profile labels. Through the instructions you will be able to see how to modify the command's output parameters in VertAlignmentLabelsSettings.xml file.

At the beginning, the user must draw an alignment with sample lines and profile. If you don't know how to do this, see the [Getting Started Tutorial](#). Once, you have all this ready in your drawing, you can continue with these instructions.

1. Run the Draw Profile Labels command

1. Run the Draw Profile Labels (2101) command in the Layout ribbon.

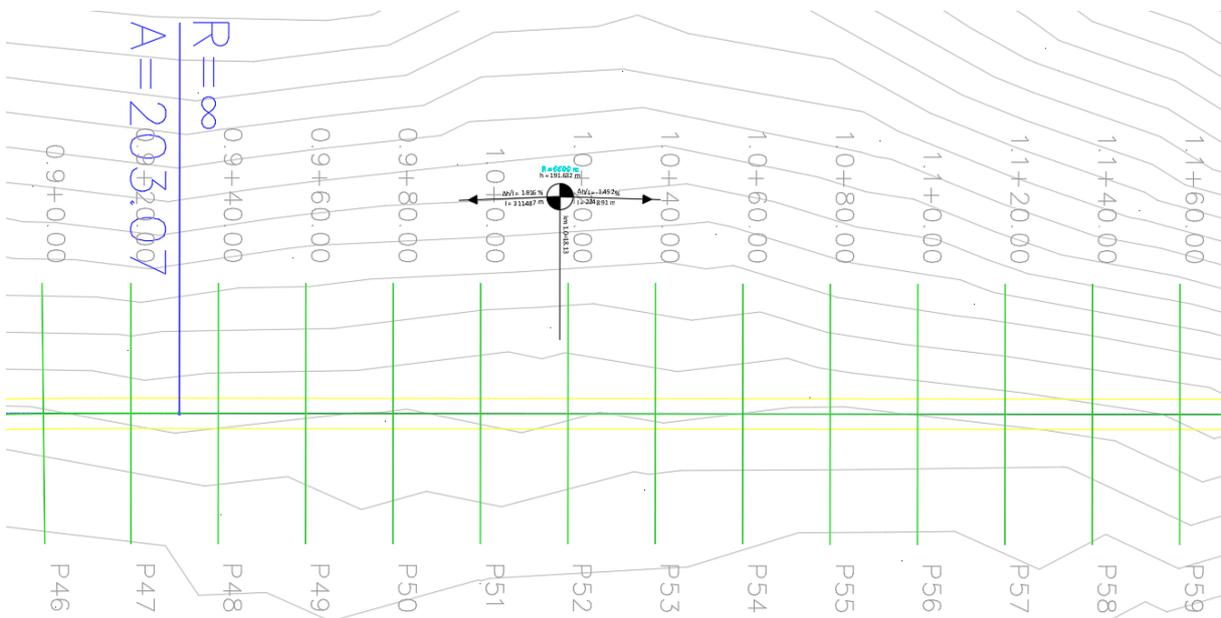
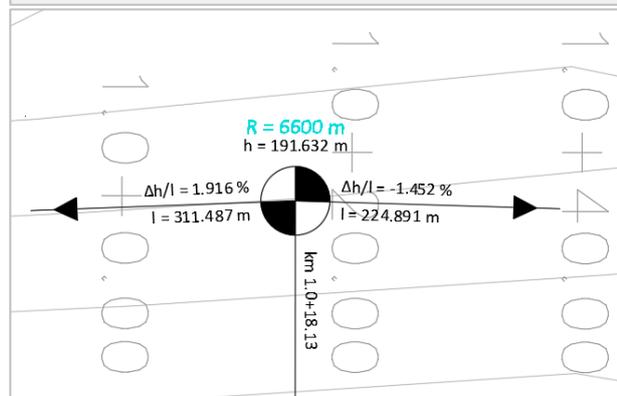


2. This command opens new dialog, where the user defines input data.



3. Confirm with OK and the labels will be drawn in the drawing.

Profile labels are drawn with the default settings.



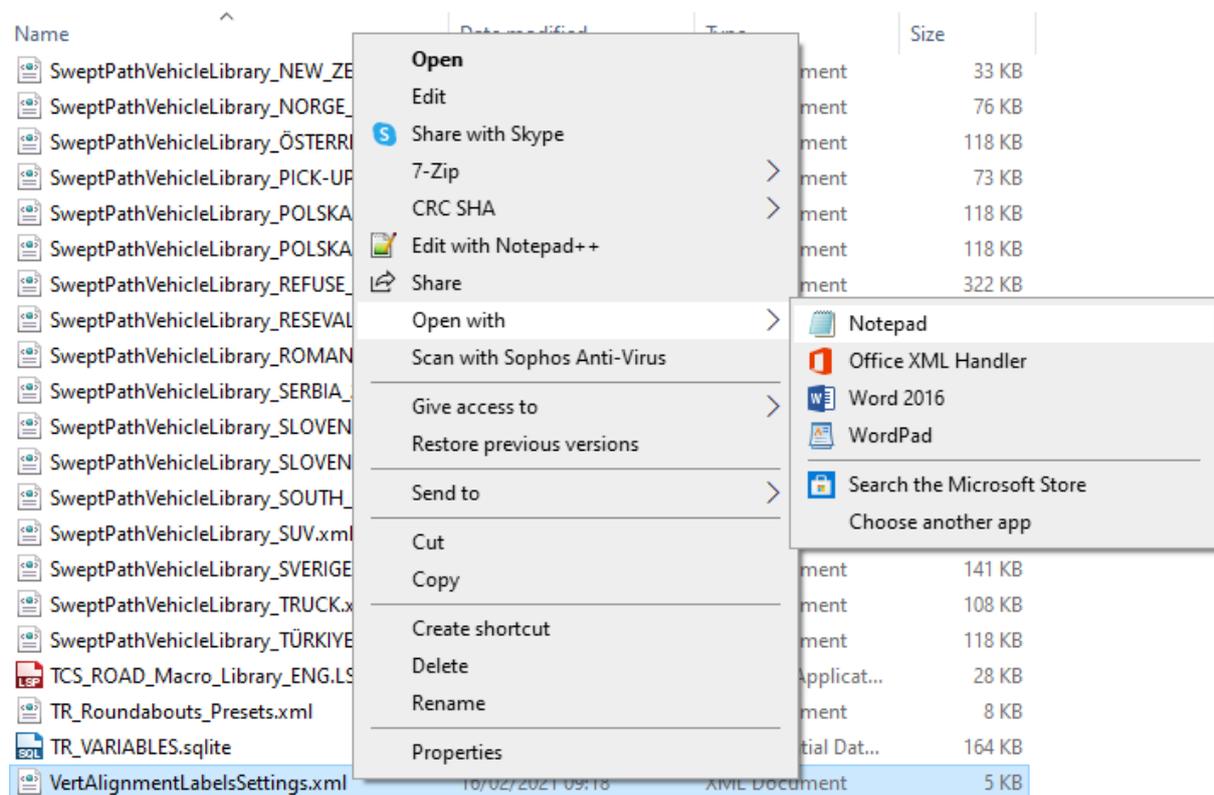
2. Change main label properties

To change label properties, you should first find the VertAlignmentLabelsSettings.xml file, which is saved in the C:\Users\username\AppData\Roaming\CGSA\CGSApps 2021 ENG folder. You can modify the top of the file, which is related to the Plateia software however you want. Even if you delete the whole part or you define incorrect parameters, the command will still work in Plateia, but by default settings.

Three examples of modifying labels properties will be shown in this tutorial. For a more detailed explanation of the individual parameters, see the Help file.

2.1 Modify the layer color

1. Open the VertAlignmentLabelsSettings.xml file with Notepad.

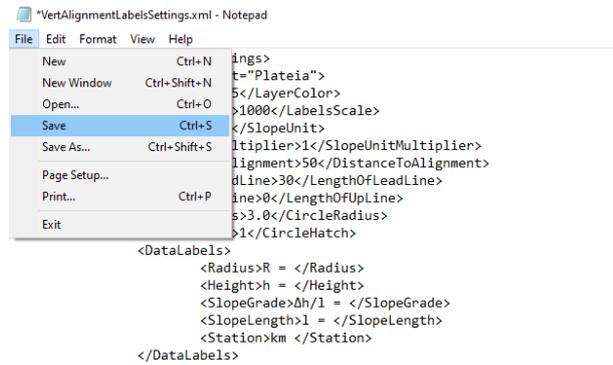


2. Change the number of layer as shown in the picture below.

```
<DisplayStyle Product="Plateia">  
  <LayerColor>0</LayerColor>  
  <LabelsScale>1000</LabelsScale>  
  <SlopeUnit>%</SlopeUnit>  
  <SlopeUnitMultiplier>1</SlopeUnitMultiplier>  
  <DistanceToAlignment>50</DistanceToAlignment>  
  <LengthOfLeadLine>30</LengthOfLeadLine>  
  <LengthOfUpLine>0</LengthOfUpLine>  
  <CircleRadius>3.0</CircleRadius>  
  <CircleHatch>1</CircleHatch>  
  <DataLabels>
```

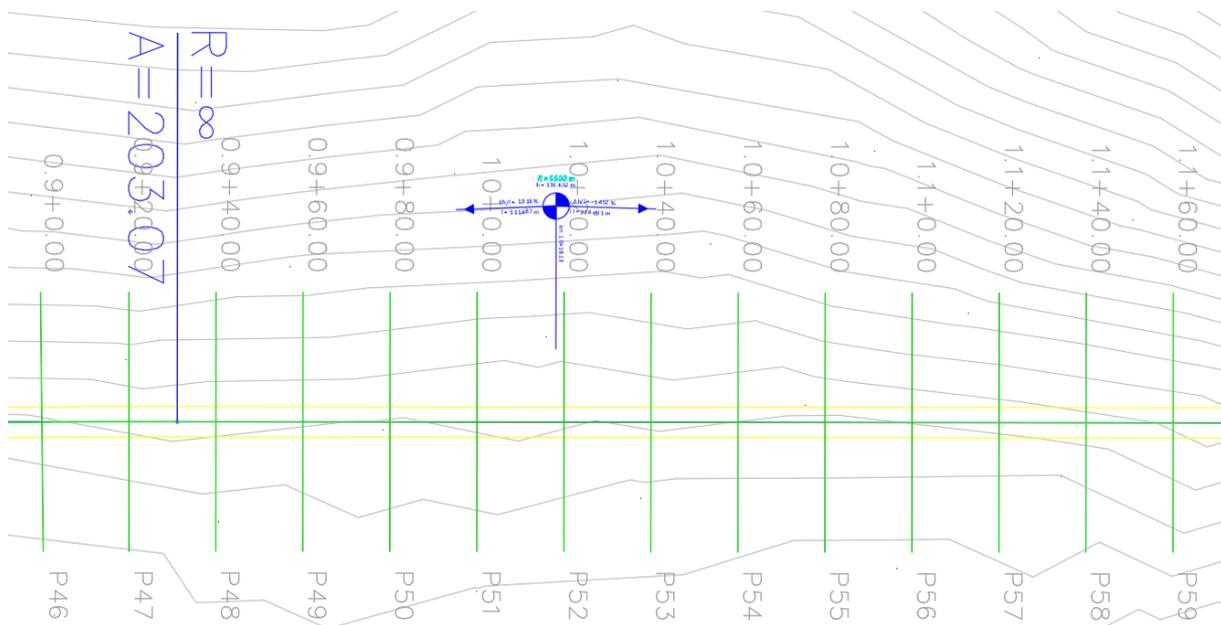
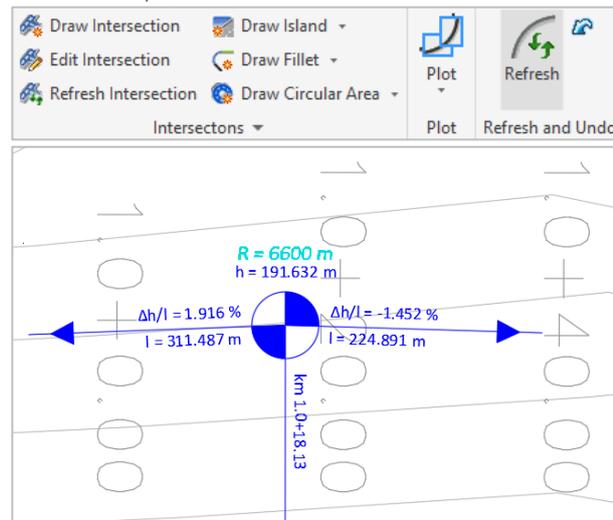
```
<DisplayStyle Product="Plateia">  
  <LayerColor>5</LayerColor>  
  <LabelsScale>1000</LabelsScale>  
  <SlopeUnit>%</SlopeUnit>  
  <SlopeUnitMultiplier>1</SlopeUnitMultiplier>  
  <DistanceToAlignment>50</DistanceToAlignment>  
  <LengthOfLeadLine>30</LengthOfLeadLine>  
  <LengthOfUpLine>0</LengthOfUpLine>  
  <CircleRadius>3.0</CircleRadius>  
  <CircleHatch>1</CircleHatch>  
  <DataLabels>
```

3. Save the VertAlignmentLabelsSettings.xml file.



4. Run the Refresh Layout to update the labels in the drawing.

5. Confirm with OK.



2.2 Modify text style in data position

For each data label, the user can specify a text style and position. The name of the text style must be defined in the Text element located at the bottom of the .xml file, otherwise the program will use the default values.

At the beginning you should define new text style.

1. You can easily copy RadiusText part and paste it below.

2. Change the name into HeightText and then modify other text properties as shown in the figure.

```
<Text>
  <Normal>
    <FontSize>1</FontSize>
    <FontColor></FontColor>
    <FontFace>Calibri</FontFace>
    <Bold>0</Bold>
    <Italic>0</Italic>
    <Strikethrough>0</Strikethrough>
    <Underlined>0</Underlined>
    <Overlined>0</Overlined>
    <LineSpacing>1</LineSpacing>
    <CharacterSpacing>1</CharacterSpacing>
    <CharacterWidth>1</CharacterWidth>
    <ObliqueAngle>0</ObliqueAngle>
  </Normal>
  <RadiusText>
    <FontSize>1.2</FontSize>
    <FontColor>(220,20,20)</FontColor>
    <FontFace>Calibri</FontFace>
    <Bold>0</Bold>
    <Italic>0</Italic>
    <Underlined>0</Underlined>
    <Overlined>0</Overlined>
    <LineSpacing>1</LineSpacing>
  </RadiusText>
  <RadiusText>
    <FontSize>1.2</FontSize>
    <FontColor>(220,20,20)</FontColor>
    <FontFace>Calibri</FontFace>
    <Bold>0</Bold>
    <Italic>0</Italic>
    <Underlined>0</Underlined>
    <Overlined>0</Overlined>
    <LineSpacing>1</LineSpacing>
  </RadiusText>
</Text>
<Text>
  <Normal>
    <FontSize>1</FontSize>
    <FontColor></FontColor>
    <FontFace>Calibri</FontFace>
    <Bold>0</Bold>
    <Italic>0</Italic>
    <Strikethrough>0</Strikethrough>
    <Underlined>0</Underlined>
    <Overlined>0</Overlined>
    <LineSpacing>1</LineSpacing>
    <CharacterSpacing>1</CharacterSpacing>
    <CharacterWidth>1</CharacterWidth>
    <ObliqueAngle>0</ObliqueAngle>
  </Normal>
  <RadiusText>
    <FontSize>1.2</FontSize>
    <FontColor>(220,20,20)</FontColor>
    <FontFace>Calibri</FontFace>
    <Bold>0</Bold>
    <Italic>0</Italic>
    <Underlined>0</Underlined>
    <Overlined>0</Overlined>
    <LineSpacing>1</LineSpacing>
  </RadiusText>
  <HeightText>
    <FontSize>2</FontSize>
    <FontColor>(82,165,103)</FontColor>
    <FontFace>Calibri</FontFace>
    <Bold>1</Bold>
    <Italic>1</Italic>
    <Underlined>0</Underlined>
    <Overlined>0</Overlined>
    <LineSpacing>1</LineSpacing>
  </HeightText>
</Text>
```

3. Then move higher, to the part called DataPosition. Change the text style of the height into HeightText (style that you defined in the previous point).

```

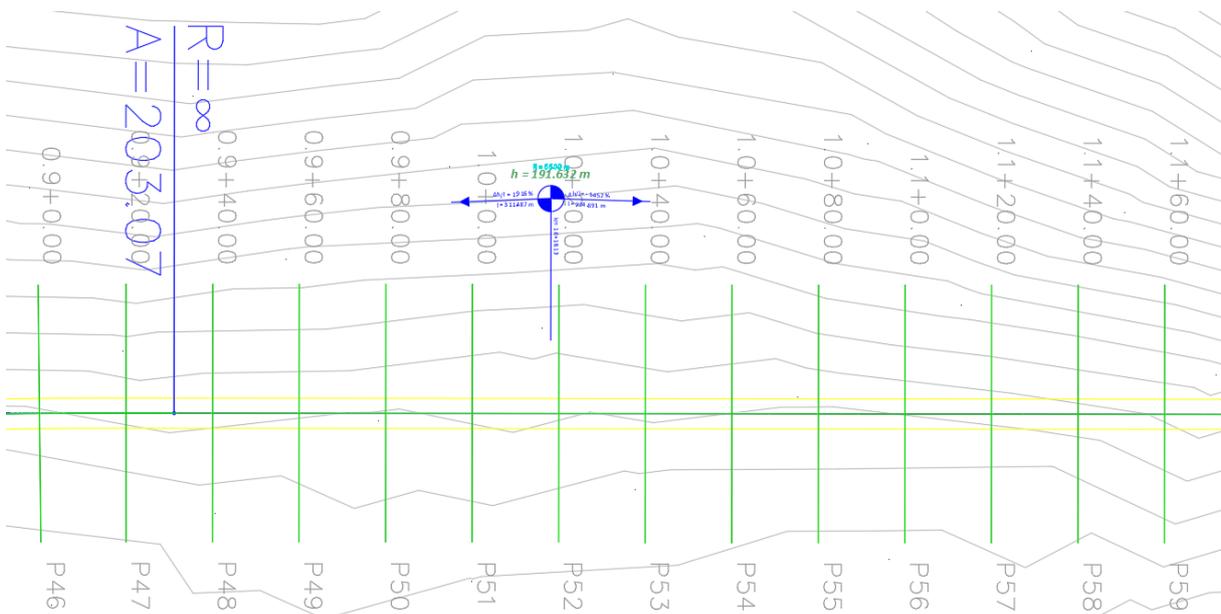
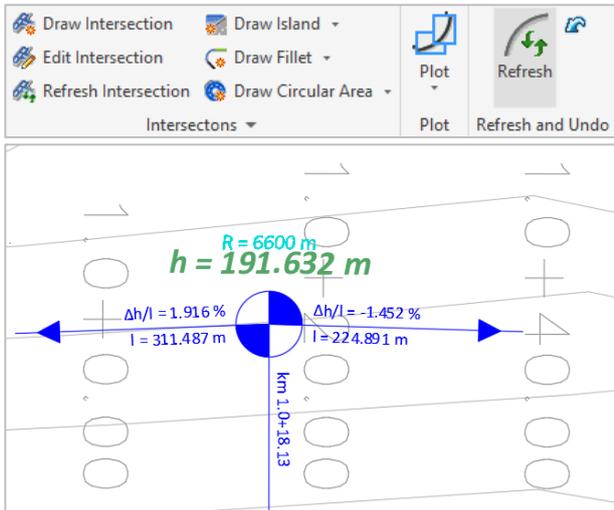
<DataPosition>
  <Radius>
    <TextStyle>RadiusText</TextStyle>
    <LabelPosition>TopA</LabelPosition>
  </Radius>
  <Station>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>LineA</LabelPosition>
  </Station>
  <Height>
    <TextStyle>HeightText</TextStyle>
    <LabelPosition>TopA</LabelPosition>
  </Height>
  <SlopeBack>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>LeftA</LabelPosition>
  </SlopeBack>
  <SlopeFront>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>RightA</LabelPosition>
  </SlopeFront>
  <LengthBack>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>LeftB</LabelPosition>
  </LengthBack>
  <LengthFront>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>RightB</LabelPosition>
  </LengthFront>
</DataPosition>

```

4. Save the .xml file.

5. Run the Refresh Layout to update the labels in the drawing.

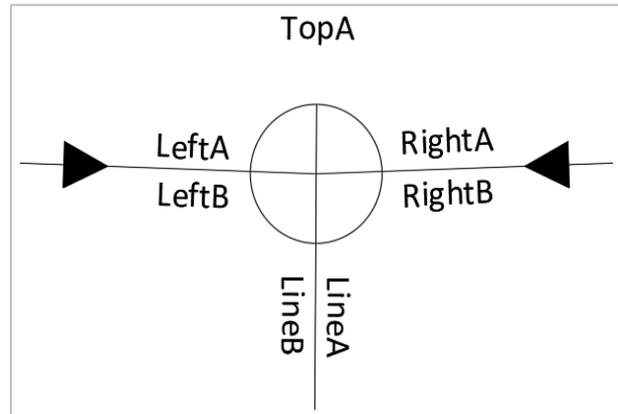
6. Confirm with OK.



2.3 Modify label position in the data position

The user can choose between the following label positions:

- TopA,
- LineA, LineB,
- LeftA, LeftB,
- RightA, RightB



1. Change the label position for height.

```
<DataPosition>
  <Radius>
    <TextStyle>RadiusText</TextStyle>
    <LabelPosition>TopA</LabelPosition>
  </Radius>
  <Station>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>LineA</LabelPosition>
  </Station>
  <Height>
    <TextStyle>HeightText</TextStyle>
    <LabelPosition>LineB</LabelPosition>
  </Height>
  <SlopeBack>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>LeftA</LabelPosition>
  </SlopeBack>
  <SlopeFront>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>RightA</LabelPosition>
  </SlopeFront>
  <LengthBack>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>LeftB</LabelPosition>
  </LengthBack>
  <LengthFront>
    <TextStyle>Normal</TextStyle>
    <LabelPosition>RightB</LabelPosition>
  </LengthFront>
</DataPosition>
```

2. Save the .xml file.

3. Run the Refresh Layout to update the labels in the drawing.

4. Confirm with OK.

