Disable Anti-Aliasing in the MapViewer

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Introduction

By default, the MapViewer performs anti-alias on lines and polygons to improve the appearance of edges, so that they are smoothed out on the screen. This process works perfectly when the background color is white but it may have a bad effect when there is raster background for example. In this case, the line will be surrounded by a white color (see Figure 1).

Figure 1 - Anti-alias applied

The following screen capture (Figure 2) demonstrates the same region but without anti-aliasing.

Figure 2 - Anti-alias disabled

Another benefit of disabling the anti-alias filter is the performance. You might see a gain of performance while displaying spatial database layers.

Rendering option methods

Two new methods have been added to the MapViewer API allowing to set or get the rendering option value. The anti-alias option can be enabled or disabled on two views: the display view and the print view. Rendering options must be set prior to display the map in the viewer. The MapViewer Example page has been modified to test it.

Methods	Description
SetRenderingOption (option, view, enabled)	Sets specific rendering options on a specific view.
GetRenderingOptionValue (option, view)	Gets specific rendering option values on a specific view.

Option: An integer that specifies the rendering option to set. Option IDs are:

1 : Polygon Caulking

2 : Line Anti-Aliasing

View: An integer that specifies the view to modify. View IDs are:

1 : Display view

2 : Print view

Enabled: A boolean that indicates whether the rendering option should be enabled or disabled.

Example:

```
document.MapViewerControl.SetRenderingOption(2,1,0);
```

This example disables the anti-aliasing in the MapViewer view.

These new methods have been added into the Geo Web Publisher Example pages. Unselect the "Line Anti-Aliasing" option of the Display View to test your map without the anti-aliasing process.

How to disable the anti-aliasing in the Geo Web Site?

The following procedure will disable the anti-aliasing option of all subsequent Website you will publish.

1. Open the **default.aspx** file located under "C:\Bentley\GeoWebPublisher\Administration\GeoWebSite".

2. In the "OnMapViewerLoaded" function, add the SetRenderingOption method as described below:

```
function OnMapViewerLoaded()
{
        isViewerObjectReady = true;
        RaiseSiteLoadedEvent()

mapViewerFunction('SetRenderingOption', 2, 1, 0);
```

```
}
```

3. Save the file and publish your site using the Site Author.

If you want to come back to the original configuration (with anti-aliasing), you can set the rendering option to “2,1,1”.