Nokia Maps for WP7 using Bing Map Control

Tip: For Windows Phone 8 Microsoft recommend developers switch to the new Windows Phone 8 Map Control which is now part of the SDK and uses the on-board HERE maps rather than use the control mentioned in this article.

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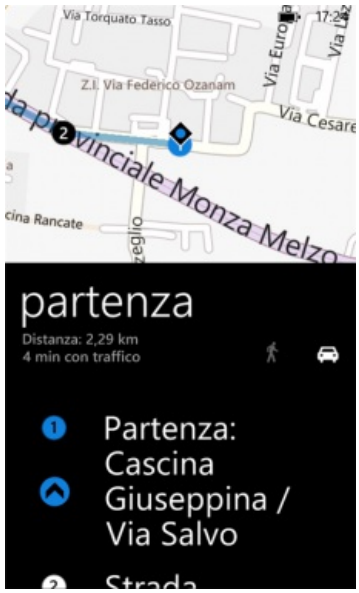
Introduction

This article shows how to display Nokia Maps (instead of Bing tiles) on Windows Phone using the Bing Map Control.



Creating the project

1. Open Microsoft Visual Studio Express 2010 and create a new 'Application Project' named NokiaMaps
2. Chose O.S 7.1

References

Add following references by right clicking 'Reference' > 'Add reference'

1. Microsoft.Phone.Controls.Maps
2. Microsoft.Phone.Controls
3. System.Device

NokiaMapTile.cs

1. Copy NokiaMapsTile.cs provided in sourcecode Media:NokiaMapsWP7.zip, into your project directory
2. Let's add to project by right clicking on 'Project Name' -> 'Add' -> 'Exsiting element' and select NokiaMapsTile.cs
3. Adjust namespace name NokiaMaps inside NokiaMapsTile.cs as appropriate with your project namespace
4. Provide your Nokia Maps token and app id. Note that these are mandatory for released apps.

```
private string token  = "<YOUR NOKIA MAPS TOKEN>";
private string app_id = "<YOUR NOKIA MAPS APP ID>";
```

MainPage.xaml

Open **MainPage.xaml** and add Map component to project. Now add the following lines:

```
xmlns:NokiaMapsSource="clr-namespace:NokiaMaps"
xmlns:MSPCMCore="clr-
namespace:Microsoft.Phone.Controls.Maps.Core;assembly=Microsoft.Phone.Controls.Maps"
```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```
<my:Map Height="634" HorizontalAlignment="Left" Name="map" VerticalAlignment="Top"
Width="456" CredentialsProvider="<YOU BING CREDENTIAL>"
CopyrightVisibility="Collapsed" LogoVisibility="Collapsed" ScaleVisibility="Visible">
                <my:Map.Mode>
                    <MSPCMCore:MercatorMode/>
                </my:Map.Mode>

                <my:MapTileLayer Name="street" Margin="0,0,0,32" Height="647"
Width="475">
                    <my:MapTileLayer.TileSources>
                        <NokiaMapsSource:NokiaMapsTile TileTypes="Street"/>
                    </my:MapTileLayer.TileSources>
                </my:MapTileLayer>

                <my:MapTileLayer Visibility="Collapsed" Name="wateroverlay"
Margin="0,0,0,32">
                <my:MapTileLayer.TileSources>
                    <NokiaMapsSource:NokiaMapsTile TileTypes="WaterOverlay"/>
                </my:MapTileLayer.TileSources>
            </my:MapTileLayer>

            <my:MapTileLayer Visibility="Collapsed" Name="hybrid" Margin="0,0,0,32">
                <my:MapTileLayer.TileSources>
                    <NokiaMapsSource:NokiaMapsTile TileTypes="Hybrid"/>
                </my:MapTileLayer.TileSources>
            </my:MapTileLayer>

            <my:MapTileLayer Visibility="Collapsed" Name="satellite" Margin="0,0,0,32">
                <my:MapTileLayer.TileSources>
                    <NokiaMapsSource:NokiaMapsTile TileTypes="Satellite"/>
                </my:MapTileLayer.TileSources>
            </my:MapTileLayer>

            <my:MapTileLayer Visibility="Collapsed" Name="physical" Margin="0,0,0,32">
                <my:MapTileLayer.TileSources>
                    <NokiaMapsSource:NokiaMapsTile TileTypes="Physical"/>
                </my:MapTileLayer.TileSources>
          </my:MapTileLayer>
</my:Map>
<Button Content="Zoom In" Height="72" HorizontalAlignment="Left" Margin="6,535,0,0"
Name="buttonZoomIn" VerticalAlignment="Top" Width="207" Click="buttonZoomIn_Click" />
<Button Content="Zoom Out" Height="72" HorizontalAlignment="Left" Margin="243,535,0,0"
Name="buttonZoomOut" VerticalAlignment="Top" Width="207" Click="buttonZoomOut_Click" />
```

Zoom control

Open **MainPage.xaml.cs** and add following lines

```
private void buttonZoomIn_Click(object sender, RoutedEventArgs e)
{
     double zoom;
     zoom = map.ZoomLevel;
     map.ZoomLevel = ++zoom;
}
```


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```
private void buttonZoomOut_Click(object sender, RoutedEventArgs e)
{
     double zoom;
     zoom = map.ZoomLevel;
     map.ZoomLevel = --zoom;
}
```

Now you are ready to start using Nokia Maps !!!

Adding Markers

```
MapLayer m_PushpinLayer = new MapLayer();
map.Children.Add(m_PushpinLayer);

// Reasonable stab at center of Seattle metro area
map.SetView(new GeoCoordinate(41.89001, 12.495346), 10);

// Create and Add a few push pins
Pushpin pushpin1 = new Pushpin();
pushpin1.Background = new SolidColorBrush(Colors.Red);
pushpin1.Location = new GeoCoordinate(45.463983, 9.187946);    // Milan

Pushpin pushpin2 = new Pushpin();
pushpin2.Background = new SolidColorBrush(Colors.Green);
pushpin2.Location = new GeoCoordinate(37.066684, 15.282555);       // Siracusa

Pushpin pushpin3 = new Pushpin();
pushpin3.Background = new SolidColorBrush(Colors.Blue);
pushpin3.Location = new GeoCoordinate(37.102357, 15.124986);    // Solarino

m_PushpinLayer.AddChild(pushpin1, pushpin1.Location);
m_PushpinLayer.AddChild(pushpin2, pushpin2.Location);
m_PushpinLayer.AddChild(pushpin3, pushpin3.Location);

map.ZoomLevel = 6;
```

Demo Source Code

You can find the source code of demo application using Nokia Map here Media:NokiaMapsWP7.zip.

Show Case

You can download Trova Farmacie for a real usage example

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