# Layer Visibility Hands-on Exercise

# Estimated complete time: 10-15 minutes (Resource Level: (3))

#### Prerequisites – To complete this exercise, you need the following

- AppStudio for ArcGIS Desktop 2.0 can be downloaded from http://doc.arcgis.com/en/appstudio/download/
- AppStudio for ArcGIS Player2.0 can be downloaded from http://doc.arcgis.com/en/appstudio/download/

#### Step 1. Create a new app using the Simple Layout (Material Design) template

- Download and install AppStudio Desktop
- Launch AppStudio Desktop
- Sign in using your ArcGIS Org account
- Click on the **New App** button
- Click on the Layouts tab
- Choose the Simple Layout (Material Design) template and click on the Create button

#### Step 2. Adding map and layers

- Open the app in Qt Creator
  - Select the app you created from step 1, then click on the **Edit** tool
  - You would see Qt Creator IDE window open
- Start coding on MyApp.qml
  - Add import startement for Esri ArcGIS Runtime on the top of the page next to other import statements

import Esri. ArcGISRuntime 100		1
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Edit the Header title to "My Mapping Application"

o Add MapView code right after the Header section ends

Add Map and Basemap to MapView - BasemapImagery{}

```
MapView{
   id:mapView
   anchors.fill:parent
   Map{
       BasemapImagery{}
   }
}
```

o Add Map Service in Map

http://sampleserver6.arcgisonline.com/arcgis/rest/services/USA/MapServer

```
ArcGISMapImageLayer{
    id:mapServiceLayer
url:"http://sampleserver6.arcgisonline.com/arcgis/rest/services/U
SA/MapServer"
}
```

 Set the viewpoint of the MapView to the Map service full extent on the onLoadStatusChanged event of the Map Service layer

```
ArcGISMapImageLayer{
...
onLoadStatusChanged: {
   if(loadStatus === Enums.LoadStatusLoaded) {
   mapView.setViewpointGeometry(mapServiceLayer.fullExtent);
   }
}
...
}
```

o Add Feature Layer in the Map -

http://sampleserver6.arcgisonline.com/arcgis/rest/services/Wildfire/MapServer/0

```
FeatureLayer{
    id:citiesLayer
    visible: false
    featureTable:citiesFeatureTable
}
ServiceFeatureTable{
    id: citiesFeatureTable
    url:
"http://sampleserver6.arcgisonline.com/arcgis/rest/services/Wildfire/MapServer/0"
}
```

### Step 3. Add the Layer List to the Dialog

• Comment out the following lines from the Dialog

Change the title of the Dialog and add height properties

• Replace the commented code with the following code

## Step 4. Run the app

- Go to Tools -> External -> AppStudio -> Run
- Or press **SHIFT** + **ALT** + **R** key on your keyboard for Windows or Mac

Your app should look like screenshots below,



