How to Monitor Geographic Location Updates in WRT Widget

Overview

- This article and code snippet below explains how one can monitor changes in Geographic Location in a Widget using geolocation service object in Nokia Platform Services 2.0.
- Before we start with the article, there are two ways of including Platform Services 2.0 support to the widget:

```
 - Installing platformservices_v2_0_beta.SIS, will add the JavaScript library to a
common location
   (c:\system\widgetlibs\platformservices.js) that can be accessed by any widget.
```

```
 - Including the JavaScript library platformservices.js directly in a widget.
```

- We will use the second option for simplicity, and ease of testing the widget.
- In the code below we try to monitor the changes in the device geographic location and display it on screen, for that we will use **watchPosition** api.

Example

```
<html>
    <head>
        <script type="text/javascript" src="platformservices.js" charset= "utf-8" />

        <script language="javascript">

        var so = null;
        var tid = ""

        // Callback function called whenever change in location is detected.
        function onLocationUpdate( newLocation ){

          var lon = newLocation.coords.longitude;
          var lat = newLocation.coords.latitude;
          alert("Location Changed : \n Longitude: " + lon + "\n Latitude: " + lat);
        };

        //Error handling callback function for watchPosition.
        function onLocationError( error ){

           alert("Error getting Location Updates: " + error.message );
        };

        // On exit lets just clear the ongoing watch for location changes if any.
        window.widget.onexit = function() {

          if( tid ){
            so.clearWatch(watchId);
          }
        };
```


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```
        try{
          // Lets first create geolocation object.
          so = com.nokia.device.load("", "com.nokia.device.geolocation");
          // Lets start getting location updates.
          var tid = so.watchPosition(onLocationUpdate, onLocationError);

        }catch(e){

          alert("Error : " + e);
        };


        </script>
    </head>
    <body>Location Updates Test Widget</body>
</html>
```

Sample Widget

Media:Geolocation_test.zip is a sample widget - install and launch.

How to Test

- Launch the widget, it will start monitoring location updates and will display the location if changes are detected in the device location.

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