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);
          }
        };


        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.

(C) Copyright Nokia 2013. All rights reserved.

(C) Copyright Nokia 2013. All rights reserved.