

# How to Monitor Geographic Location Updates in WRT Widget

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## 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.

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## 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>
```

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## Sample Widget

Media:[Geolocation\\_test.zip](#) is a sample widget - install and launch.

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## 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.

