Archived:Detecting device orientation using sensors in Flash Lite

Archived: This article is **archived** because it is not considered relevant for third-party developers creating commercial solutions today. If you think this article is still relevant, let us know by adding the template {{ReviewForRemovalFromArchive|user=~~~~|*write your reason here*}}.

We do not recommend Flash Lite development on current Nokia devices, and all Flash Lite articles on this wiki have been archived. Flash Lite has been removed from all Nokia Asha and recent Series 40 devices and has limited support on Symbian. Specific information for Nokia Belle is available in Flash Lite on Nokia Browser for Symbian. Specific information for OLD Series 40 and Symbian devices is available in the Flash Lite Developers Library.

This code snippet demonstrates how to display data of the orientation channel using the Sensor Platform Service for Flash Lite supported from S60 5th Edition onwards.

Source

```
// Import Platform Service Interface
import com.nokia.lib.Service;
```

```
// Heading of the application
heading_txt.text = "Checking device orientation";

// Prevent scale of the stage
Stage.scaleMode = "noScale";
var screen;

// Create new Service object which has Sensor data
var sensors = new Service("Service.Sensor", "ISensor");

// Define input parameters for picking Rotation sensor
var inParam = {SearchCriterion:"Orientation"};
// Define result value
var outParams = sensors.FindSensorChannel(inParam);
// Define channel info (rotation)
var channelInfo = outParams.ReturnValue;
// Define valid values for channel info
var channelId = channelInfo[0].ChannelId;
var contextType = channelInfo[0].ContextType;
var quantity = channelInfo[0].Quantity;
var channelType = channelInfo[0].ChannelType;
var location = channelInfo[0].Location;
var vendorId = channelInfo[0].VendorId;
var dataItemSize = channelInfo[0].DataItemSize;
var channelDataTypeId = channelInfo[0].ChannelDataTypeId;
var channelInfo = {
    ChannelId:channelId, ContextType:contextType, Quantity:quantity,
    ChannelType:channelType, Location:location, VendorId:vendorId,
    DataItemSize:dataItemSize, ChannelDataTypeId:channelDataTypeId
    };

// Define input parameters for listening orientation channel data
var inParams = {ListeningType:"ChannelData", ChannelInfoMap:channelInfo};
```


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```
// The RegisterForNotification method registers the user to receive data from
// one sensor channel asynchronously
sensors.RegisterForNotification(inParams, callBack);

// Because this is an asynchronous method you need to define callback function
// Callback function includes all the channel data
function callBack(transactionID:String, eventID:String, outParam:Object) {
    if (outParam.ErrorCode == 0) {
        var channelData = outParam.ReturnValue;
        var deviceOr = channelData.DeviceOrientation;
        // Build stage again when changing to vertical or horizontal screen
        if(deviceOr == "DisplayUp") {
            Stage.width = 360;
            Stage.height = 640;
            heading_txt._x = 31;
            heading_txt._y = 20;
            text_txt._x = 31;
            text_txt._y = 100;
            exit_mc._x = 360-84;
            exit_mc._y = 640-47;
            screen = "Vertical";
            Stage.align = "TL";
        } else if(deviceOr == "DisplayRightUp") {
            Stage.width = 640;
            Stage.height = 360;
            heading_txt._x = 31;
            heading_txt._y = 20;
            text_txt._x = 31;
            text_txt._y = 100;
            exit_mc._x = 640-84;
            exit_mc._y = 360-47;
            screen = "Horizontal";
            fscommand2( "FullScreen", true );
            Stage.align = "TL";
        }
        text_txt.text = screen+" screen.\rOrientation: "+deviceOr;
    } else {
        var errorId = outParam.ErrorCode;
        text_txt.text = "Error: "+errorId;
    };
};
```

Postconditions

Status of the device orientation is displayed. The application layout will change between vertical(DisplayUp) and horizontal(DisplayRightUp) screen.

Example application

The following sample application has been tested in the Nokia 5800 XpressMusic (S60 5th Edition, Flash Lite 3.0): Checking Device Orientation

See also

- Flash Lite Developer's Library
- Displaying sensor data in Flash Lite

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