

public class

GeoAudioAnalysis

extends LiFiSensor

implements Runnable

packages: oledcomm.android.lifi

Class Overview

A class processes the LiFi sensor data and gets the device's location.

Public Constructors

public GeoAudioAnalysis(JackStatus jack, Context context)

Construct a new GeoAudioAnalysis object with a JackStatus object to observe the sensor's status and the application context.

Parameters:

JackStatus jack: the jack object which observes the Jack sensor's status.

Context context: application context, can be got by getApplicationContext()

Public Methods

public void getCurrentPosition(LiFiLocation location)

Perform a sensor data acquisition, get the current position information and put it inside LiFiLocation object. To retrieve the contained information, the methods of interface LiFiLocation need to be implemented.

Parameters:

LiFiLocation location: the location objects which contains the geolocation information.

```
public void watchPosition(LiFiLocation location)
```

Perform continuous data acquisition, and push the current positions to the LiFiLocation object. To retrieve the contained information, the methods of interface LiFiLocation need to be implemented.

Parameters:

LiFiLocation location: the location objects which contains the geolocation information.

```
public void clearPosition()
```

Stop the continuous watchPosition(LiFiLocation location), and release the system resource.

```
public static interface
```

JackStatus

packages: oledcomm.android.lifi

Class Overview

If a normal smartphone or tablet with a Jack sensor is used, this class is used for watching and receiving Jack sensor status. If an OLEDCOMM smartphone or tablet with an internal sensor is used, this class can be ignored.

Public Methods

```
public abstract void onJackStatus(int status)
```

Called to react when a Jack sensor event occurs.

The event number is one of:

- JACK_PLUGGED
- JACK_UNPLUGGED
- JACK_ABSENCE

Parameters:

int Event: event number for this notification

public static interface

LiFiLocation

packages: oledcomm.android.lifi

Class Overview

Used for retrieving geolocation of the device receiving data from LiFi.

Public Methods

public abstract void onLocationSuccess(String id);

Called when a location is successfully found, and the corresponding id will be available.

Parameters:

String id: the found id of the lamp

```
public abstract void onLocationError(int error);
```

Called when a location is not found, and the corresponding error will be returned.

Parameters:

int: error

the error can be one of

- ERROR_WEAK_SIGNAL
- ERROR_NO_TAG