

public class

GeoAudioAnalysis

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 getCurrentPosition() or the watchPosition() and release the system resource.

public static interface

JackStatus

packages: oledcomm.android.lifi

Class Overview

Used for watching and receiving Jack sensor status.

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 LED ID will be available.

Parameters:

String id: the LED ID

public abstract void onLocationError(int error);

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

the error can be one of

- ERROR_WRONG_FORMAT
- ERROR_NO_TAG

Parameters:

int error: received wrong ID or received nothing.

