

# SOCIO Framework

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## Chapter 2

# Hierarchical Index

### 2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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<a href="#">com.copelabs.socio.contentmanager.CleanTask</a>	22
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## Chapter 5

# Namespace Documentation

### 5.1 Package com

#### Packages

- package [copelabs](#)

### 5.2 Package com.copelabs

#### Packages

- package [socio](#)

### 5.3 Package com.copelabs.socio

#### Packages

- package [bt](#)
- package [contentmanager](#)
- package [router](#)
- package [socialproximity](#)
- package [wifi](#)

### 5.4 Package com.copelabs.socio.bt

#### Classes

- class [BluetoothManager](#)
- interface [BTDeviceFinder](#)

#### 5.4.1 Detailed Description

##### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class provides some methods to provide extended functionality to the android BluetoothAdapter.

**Author**

Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. It provides the interface between BTManager and SocialProximity.

**Author**

Waldir Moreira (COPELABS/ULHT)

## 5.5 Package com.copelabs.socio.contentmanager

**Classes**

- class [CleanTask](#)
- class [ContentManager](#)
- class [FileIO](#)
- class [Packet](#)
- class [XmlPullParserHandler](#)

### 5.5.1 Detailed Description

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. This class verifies the packets TTL. If the TTL is higher than a specific timeout, the packet is removed.

**Author**

Luis Amaral Lopes (COPELABS/ULHT),

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. Content Manager (CM) module is responsible to manage all of the messages to be sent, as well as received messages. Currently the CM stores messages in an XML format under specific directories.

**Author**

Luis Amaral Lopes (COPELABS/ULHT),  
Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. It provides Write and Read functions to a specific files.

**Author**

Luis Amaral Lopes (COPELABS/ULHT),  
Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. This class represents a packet content.

**Author**

Luis Amaral Lopes (COPELABS/ULHT),

## 5.6 Package com.copelabs.socio.router

**Classes**

- class [Routing](#)
- interface [RoutingListener](#)

### 5.6.1 Detailed Description

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. The [Routing](#) (RT) module is provided separately to allow relying on any opportunistic forwarding mechanism. The current available forwarding mechanism is based on the dLife algorithm.

**Author**

Luis Amaral Lopes (COPELABS/ULHT),  
Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. It provides the interface between [Routing](#) and ContentManager classes.

**Author**

Luis Amaral Lopes (COPELABS/ULHT),  
Waldir Moreira (COPELABS/ULHT)

## 5.7 Package com.copelabs.socio.socialproximity

**Classes**

- class [DataBase](#)
- interface [DataBaseChangeListener](#)
- class [OnSocialWeightUpdate](#)
- class [SocialProximity](#)
- interface [SocialProximityListener](#)
- class [SocialWeight](#)
- class [SQLiteHelper](#)
- class [UserDevAverageEncounterDuration](#)
- class [UserDevEncounterDuration](#)
- class [UserDeviceInfo](#)
- class [UserDevSocialWeight](#)

### 5.7.1 Detailed Description

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class provides the Database used by Social Proximity class for creation and handling of tables hold information for social weight computation.

#### Author

Waldir Moreira (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. It provides the interface between [OnSocialWeightUpdate](#) and [SocialProximity](#).

#### Author

Waldir Moreira (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class is responsible for computing the social weight among users.

#### Author

Waldir Moreira (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class contains the core functionalities of the application. The BTManager provides all the information from Bluetooth adapter so this class can perform the social context analysis prior to storing the required information in the database.

#### Author

Waldir Moreira (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. It provides the interface between [SocialProximity](#) and Routing.

#### Author

Waldir Moreira (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class holds information about a device: name, MAC address, and social weight towards it.

**Author**

Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class creates the tables and respective attributes in the database.

**Author**

Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class holds the average duration of encounter between a peer and the user device in specific time slots. The information kept are device MAC address and average encounter duration.

**Author**

Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class holds the encounter duration between a peer and the user device in specific time slots. The information kept are device MAC address and time spent in the vicinity (i.e., total time within communication range).

**Author**

Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class represents a user device found by means of Bluetooth. The information kept are device name, MAC address, and time of first encounter.

**Author**

Waldir Moreira (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 06-04-2016 Class is part of the SOCIO application. This class holds the social weight between a peer and the user device in specific time slots. The information kept are device MAC address and social weight.

**Author**

Waldir Moreira (COPELABS/ULHT)

## 5.8 Package com.copelabs.socio.wifi

### Classes

- class [ClientSocketHandler](#)
- class [ServerThread](#)
- class [WiFiDirect](#)
- class [WiFiDirectBroadcastReceiver](#)
- class [WiFiDirectDevice](#)
- interface [WiFiDirectListener](#)
- class [WiFiDirectUtils](#)

### 5.8.1 Detailed Description

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. Implements the client socket code.

#### Author

Luis Amaral Lopes (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. Server socket code.

#### Author

Luis Amaral Lopes (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. This class is the entry point of the [WiFiDirect](#) module. This module is responsible to announce the list of Social Weight, detect new SOCIO enabled devices, send packets to other device and to receive packet from other device. All using WiFi P2P interface.

#### Author

Luis Amaral Lopes (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. A BroadcastReceiver that notifies of important wifi p2p events.

#### Author

Luis Amaral Lopes (COPELABS/ULHT)

#### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework.



**Author**

Luis Amaral Lopes (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the SOCIO framework. [WiFi↔Direct](#) listener used to send info/data to modules above.

**Author**

Luis Amaral Lopes (COPELABS/ULHT)



## Chapter 6

# Class Documentation

### 6.1 com.copelabs.socio.bt.BluetoothManager Class Reference

#### Classes

- class **adapterBroadcastReceiver**
- class **FindBluetoothDevice**

#### Public Member Functions

- [BluetoothManager](#) (Context c)
- void [close](#) (Context c)
- void [startPeriodicScanning](#) ()
- boolean [isBTEnabled](#) ()
- boolean [enableBT](#) ()
- boolean [startDiscovery](#) ()
- void [setOnBTChangeListener](#) (BTDeviceFinder listener)
- void [clearOnBTChangeListener](#) ()
- List< String > [getLocalInfo](#) ()

#### Public Attributes

- boolean [isScanningActive](#) = false
- boolean [isWaitingScanResults](#) = false

#### Static Public Attributes

- static int [DISCOVER\\_INTERVAL](#) = 180000

#### Private Member Functions

- void [stopPeriodicScanning](#) ()
- void [writeToSD](#) (String text)

## Private Attributes

- boolean `debug` = true
- Context `mContext`
- BluetoothAdapter `androidBTAdapter`
- BluetoothServerSocket `socket`
- UUID `uuid` = UUID.fromString("01010101-0101-0101-0101-010101010101")
- Map< BluetoothDevice, BluetoothClass > `btDeviceList` = new HashMap<BluetoothDevice, BluetoothClass>()
- FindBluetoothDevice `BTDevFinder`
- adapterBroadcastReceiver `adapterReceiver`
- `BTDeviceFinder` listener
- String `fetchingUUIDfromDevice`
- Handler `mHandler` = new Handler()
- Runnable `runScan`

## Static Private Attributes

- static final String `TAG` = "BTManager"
- static boolean `mBTisTurningOnOff` = false

### 6.1.1 Constructor & Destructor Documentation

#### 6.1.1.1 com.copelabs.socio.bt.BluetoothManager.BluetoothManager ( Context *c* )

This method is the constructor for [BluetoothManager](#).

##### Parameters

<i>c</i>	The context.
----------	--------------

### 6.1.2 Member Function Documentation

#### 6.1.2.1 void com.copelabs.socio.bt.BluetoothManager.clearOnBTChangeListener ( )

This method clears the change listener.

#### 6.1.2.2 void com.copelabs.socio.bt.BluetoothManager.close ( Context *c* )

This method stops scanning and unregister BroadcastReceivers.

##### Parameters

<i>c</i>	The context
----------	-------------

#### 6.1.2.3 boolean com.copelabs.socio.bt.BluetoothManager.enableBT ( )

This method enables Bluetooth.

**6.1.2.4** `List<String> com.copelabs.socio.bt.BluetoothManager.getLocalInfo ( )`

This method provides the MAC Address and name of local Bluetooth adapter.

**Returns**

localinfo The local MAC Address

**6.1.2.5** `boolean com.copelabs.socio.bt.BluetoothManager.isBTEnabled ( )`

This method checks whether Bluetooth is enabled.

**6.1.2.6** `void com.copelabs.socio.bt.BluetoothManager.setOnBTChangeListener ( BTDeviceFinder listener )`

This method sets a change listener.

**Parameters**

<i>listener</i>	The <a href="#">BTDeviceFinder</a> listener
-----------------	---

**6.1.2.7** `boolean com.copelabs.socio.bt.BluetoothManager.startDiscovery ( )`

This method starts Bluetooth discovery process.

**6.1.2.8** `void com.copelabs.socio.bt.BluetoothManager.startPeriodicScanning ( )`

This method starts scanning.

**6.1.2.9** `void com.copelabs.socio.bt.BluetoothManager.stopPeriodicScanning ( )` [private]

This method stops scanning.

**6.1.2.10** `void com.copelabs.socio.bt.BluetoothManager.writeToSD ( String text )` [private]

Writes on a file for Bluetooth debugging

**6.1.3 Member Data Documentation****6.1.3.1** `adapterBroadcastReceiver com.copelabs.socio.bt.BluetoothManager.adapterReceiver` [private]

Used to get information from Bluetooth Adapter

**6.1.3.2** `BluetoothAdapter com.copelabs.socio.bt.BluetoothManager.androidBTAdapter` [private]

Used to access functionality of Bluetooth Adapter

**6.1.3.3** `FindBluetoothDevice com.copelabs.socio.bt.BluetoothManager.BTDevFinder` [private]

Used to get information on Bluetooth device

**6.1.3.4** `Map<BluetoothDevice, BluetoothClass> com.copelabs.socio.bt.BluetoothManager.btDeviceList = new HashMap<BluetoothDevice, BluetoothClass>() [private]`

Used to access the Bluetooth device list

**6.1.3.5** `boolean com.copelabs.socio.bt.BluetoothManager.debug = true [private]`

Flag used for debugging purposes

**6.1.3.6** `int com.copelabs.socio.bt.BluetoothManager.DISCOVER_INTERVAL = 180000 [static]`

Sets Bluetooth discover interval

**6.1.3.7** `String com.copelabs.socio.bt.BluetoothManager.fetchingUUIDfromDevice [private]`

Receives UUIDs from Bluetooth device

**6.1.3.8** `boolean com.copelabs.socio.bt.BluetoothManager.isScanningActive = false`

Flag to check if scanning is Active

**6.1.3.9** `boolean com.copelabs.socio.bt.BluetoothManager.isWaitingScanResults = false`

Flag to check if waiting for scan results

**6.1.3.10** `BTDeviceFinder com.copelabs.socio.bt.BluetoothManager.listener [private]`

Used to access the listener of Bluetooth device finder

**6.1.3.11** `boolean com.copelabs.socio.bt.BluetoothManager.mBTisTurningOnOff = false [static], [private]`

Flag to check if Bluetooth is on

**6.1.3.12** `Context com.copelabs.socio.bt.BluetoothManager.mContext [private]`

Used to get global information about an application environment.

**6.1.3.13** `Handler com.copelabs.socio.bt.BluetoothManager.mHandler = new Handler() [private]`

Defines a handler for managing Bluetooth scans

**6.1.3.14** `Runnable com.copelabs.socio.bt.BluetoothManager.runScan [private]`

**Initial value:**

```
= new Runnable() {
    public void run() {
        if (isScanningActive) {
            if (!isBTEnabled()) {
                if (enableBT()) {
                    stopPeriodicScanning();
                } else {
                    Toast.makeText(mContext, "Error enabling BT. Closing Social Pipeline.",
```

```

        Toast.LENGTH_SHORT).show();
        close(mContext);
    }
    return;
}
if (!isWaitingScanResults && isBTEnabled()) {
    btDeviceList.clear();
    if (startDiscovery()) {
        if (debug) {
            Log.i(TAG, "Starting BT scanning...");
            writeToSD("Starting BT scanning...");
        }
        isWaitingScanResults = true;
    }
    mHandler.postDelayed(runScan,
DISCOVER_INTERVAL);
} else if (isWaitingScanResults) {
    mHandler.postDelayed(runScan,
DISCOVER_INTERVAL);
    isWaitingScanResults = false;
}
}
}
}

```

This method allows for starting and stopping periodic Bluetooth scanning.

#### 6.1.3.15 BluetoothServerSocket com.copelabs.socio.bt.BluetoothManager.socket [private]

Sets a listening Bluetooth socket

#### 6.1.3.16 final String com.copelabs.socio.bt.BluetoothManager.TAG = "BTManager" [static],[private]

Tag used for debugging purposes

#### 6.1.3.17 UUID com.copelabs.socio.bt.BluetoothManager.uuid = UUID.fromString("01010101-0101-0101-0101-010101010101") [private]

UUID used to identify Oi! devices

The documentation for this class was generated from the following file:

- src/com/copelabs/socio/bt/[BluetoothManager.java](#)

## 6.2 com.copelabs.socio.bt.BTDeviceFinder Interface Reference

Inherited by com.copelabs.socio.socialproximity.SocialProximity.ServiceBTListener.

### Public Member Functions

- void [onDeviceFound](#) (BluetoothDevice device, BluetoothClass btClass)

#### 6.2.1 Member Function Documentation

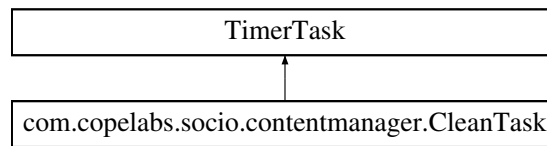
##### 6.2.1.1 void com.copelabs.socio.bt.BTDeviceFinder.onDeviceFound ( BluetoothDevice *device*, BluetoothClass *btClass* )

The documentation for this interface was generated from the following file:

- src/com/copelabs/socio/bt/[BTDeviceFinder.java](#)

## 6.3 com.copelabs.socio.contentmanager.CleanTask Class Reference

Inheritance diagram for com.copelabs.socio.contentmanager.CleanTask:



### Public Member Functions

- [CleanTask](#) ()
- void [run](#) ()

### Private Member Functions

- List< [Packet](#) > [checkTTL](#) (List< [Packet](#) > mList)

### Private Attributes

- String [TAG](#) = "TTL\_Check"
- int [timeout](#) = 86400000

### 6.3.1 Constructor & Destructor Documentation

#### 6.3.1.1 com.copelabs.socio.contentmanager.CleanTask.CleanTask ( )

[CleanTask](#) constructor

### 6.3.2 Member Function Documentation

#### 6.3.2.1 List<Packet> com.copelabs.socio.contentmanager.CleanTask.checkTTL ( List< Packet > mList ) [private]

Checks if TTL is higher than the timeout.

Parameters

<i>mList</i>	List of packets to perform a TTL check
--------------	--

Returns

A list of packets with only valid TTL.

#### 6.3.2.2 void com.copelabs.socio.contentmanager.CleanTask.run ( )

Reads the packets from the TOSEND folder and checks the TTL of each packet.



### 6.3.3 Member Data Documentation

6.3.3.1 String com.copelabs.socio.contentmanager.CleanTask.TAG = "TTL\_Check" [private]

6.3.3.2 int com.copelabs.socio.contentmanager.CleanTask.timeout = 86400000 [private]

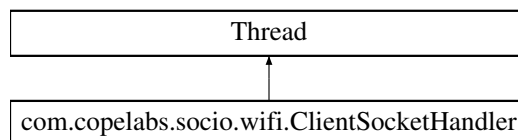
TTL Timeout

The documentation for this class was generated from the following file:

- src/com/copelabs/socio/contentmanager/CleanTask.java

## 6.4 com.copelabs.socio.wifi.ClientSocketHandler Class Reference

Inheritance diagram for com.copelabs.socio.wifi.ClientSocketHandler:



### Public Member Functions

- ClientSocketHandler (Handler handler, InetAddress groupOwnerAddress, List< Packet > list, String mThisDeviceMACP2p)
- void run ()

### Private Attributes

- Handler handler
- InetAddress mAddress
- List< Packet > mDataToSend
- String mThisDeviceMACP2p

### Static Private Attributes

- static final String TAG = "ClientSocketHandler"

### 6.4.1 Constructor & Destructor Documentation

6.4.1.1 com.copelabs.socio.wifi.ClientSocketHandler.ClientSocketHandler ( Handler handler, InetAddress groupOwnerAddress, List< Packet > list, String mThisDeviceMACP2p )

ClientSocketHandler constructor

Parameters

handler	A Handler allows you to send and process Message
---------	--

<i>groupOwner↔ Address</i>	Server IP address
<i>list</i>	List of packets to send.
<i>mThisDeviceM↔ ACP2p</i>	Local MAC Address

## 6.4.2 Member Function Documentation

6.4.2.1 `void com.copelabs.socio.wifi.ClientSocketHandler.run ( )`

## 6.4.3 Member Data Documentation

6.4.3.1 `Handler com.copelabs.socio.wifi.ClientSocketHandler.handler [private]`

A Handler allows you to send and process Message

6.4.3.2 `InetAddress com.copelabs.socio.wifi.ClientSocketHandler.mAddress [private]`

An Internet Protocol (IP) address.

6.4.3.3 `List<Packet> com.copelabs.socio.wifi.ClientSocketHandler.mDataToSend [private]`

List of packets to send

6.4.3.4 `String com.copelabs.socio.wifi.ClientSocketHandler.mThisDeviceMACP2p [private]`

Local MAC Address.

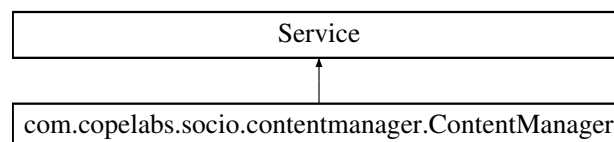
6.4.3.5 `final String com.copelabs.socio.wifi.ClientSocketHandler.TAG = "ClientSocketHandler" [static], [private]`

The documentation for this class was generated from the following file:

- `src/com/copelabs/socio/wifi/ClientSocketHandler.java`

## 6.5 com.copelabs.socio.contentmanager.ContentManager Class Reference

Inheritance diagram for com.copelabs.socio.contentmanager.ContentManager:



### Public Member Functions

- void `onCreate` ()
- void `onDestroy` ()
- IBinder `onBind` (Intent intent)

## Private Member Functions

- void [initializeModules](#) ()
- void [initTTL\\_Timer](#) ()
- boolean [sendPacketToApp](#) ([Packet](#) mPacket)
- void [receivePacket](#) (List< [Packet](#) > mListOfPackets)
- boolean [isPacketDuplicated](#) ([Packet](#) mNewPacket, String mFile)
- void [newDeviceFoundToApp](#) (UserDevice mDevice)
- void [deviceLostToApp](#) (UserDevice mDevice)
- void [sendError](#) (int mError)
- void [contactListUpdatedToApp](#) (List< UserDevice > mList)

## Private Attributes

- [Routing](#) pRouting
- int [interfaceEnabled](#) = 1
- final RemoteCallbackList< IRemoteOiFrameworkCallback > [mCallbacks](#) = new RemoteCallbackList <IRemoteOiFrameworkCallback> ()
- final IRemoteOiFramework.Stub [mBinder](#)

## Static Private Attributes

- static final String [TAG](#) = "SOCIO\_ContentManager"
- static final String [TAG2](#) = "Oi Demo"

### 6.5.1 Member Function Documentation

**6.5.1.1** void com.copelabs.socio.contentmanager.ContentManager.contactListUpdatedToApp ( List< UserDevice > *mList* )  
[private]

Sends a list of contacts, provided by the Social Proximity.

#### Parameters

<i>mList</i>	- List of contacts
--------------	--------------------

**6.5.1.2** void com.copelabs.socio.contentmanager.ContentManager.deviceLostToApp ( UserDevice *mDevice* ) [private]

Notifies registered applications about a device that is no longer available.

#### Parameters

<i>mDevice</i>	
----------------	--

**6.5.1.3** void com.copelabs.socio.contentmanager.ContentManager.initializeModules ( ) [private]

Routing module is initialized inside this function. This method also implements the listeners used by the Routing module to communicate with the Content Manager.

**6.5.1.4** void com.copelabs.socio.contentmanager.ContentManager.initTTL\_Timer ( ) [private]

Initialize the timer that checks the packets TTL. It runs every hour.

**6.5.1.5** `boolean com.copelabs.socio.contentmanager.ContentManager.isPacketDuplicated ( Packet mNewPacket, String mFile ) [private]`

Check if the new packet received is already saved inside the Local Cache file

## Parameters

<i>mNewPacket</i>	<a href="#">Packet</a> to check if it this duplicated
<i>mFile</i>	File to check.

## Returns

true if is already available at local cache or false if not.

**6.5.1.6** void com.copelabs.socio.contentmanager.ContentManager.newDeviceFoundToApp ( *UserDevice mDevice* )  
[private]

Notifies the registered applications about a new device found.

## Parameters

<i>mDevice</i>	Info about the device found.
----------------	------------------------------

**6.5.1.7** IBinder com.copelabs.socio.contentmanager.ContentManager.onBind ( *Intent intent* )

**6.5.1.8** void com.copelabs.socio.contentmanager.ContentManager.onCreate ( )

**6.5.1.9** void com.copelabs.socio.contentmanager.ContentManager.onDestroy ( )

**6.5.1.10** void com.copelabs.socio.contentmanager.ContentManager.receivePacket ( *List< Packet > mListOfPackets* )  
[private]

Method used when a new packet arrived. It checks if the packet is for this device. If it is, tries to send to the correct app. If not saves the packet to a file.

## Parameters

<i>mListOfPackets</i>	List of packets received.
-----------------------	---------------------------

**6.5.1.11** void com.copelabs.socio.contentmanager.ContentManager.sendError ( *int mError* ) [private]

Notifies registered applications about a error occurred inside the Framework.

## Parameters

<i>mError</i>	Error code
---------------	------------

**6.5.1.12** boolean com.copelabs.socio.contentmanager.ContentManager.sendPacketToApp ( *Packet mPacket* )  
[private]

Method the tries to send the packet to the correct app.

## Parameters

<i>mPacket</i>	<a href="#">Packet</a> to be sent.
----------------	------------------------------------

## Returns

true if packet was successfully sent, false if app is not available (callback not registered)

## 6.5.2 Member Data Documentation

6.5.2.1 `int com.copelabs.socio.contentmanager.ContentManager.interfaceEnabled = 1` `[private]`

Flag about the interface state

6.5.2.2 `final IRemoteOiFramework.Stub com.copelabs.socio.contentmanager.ContentManager.mBinder` `[private]`

Implements the function that can be used by the registered applications (e.g. Oi!).

6.5.2.3 `final RemoteCallbackList<IRemoteOiFrameworkCallback> com.copelabs.socio.contentmanager.ContentManager.mCallbacks = new RemoteCallbackList <IRemoteOiFrameworkCallback> ()`  
`[private]`

Callback list used to send data to the registered applications (e.g. Oi!)

6.5.2.4 **Routing** `com.copelabs.socio.contentmanager.ContentManager.pRouting` `[private]`

Routing module

6.5.2.5 `final String com.copelabs.socio.contentmanager.ContentManager.TAG = "SOCIO_ContentManager"` `[static]`,  
`[private]`

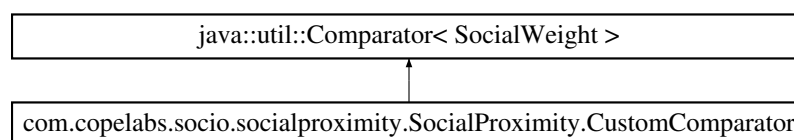
6.5.2.6 `final String com.copelabs.socio.contentmanager.ContentManager.TAG2 = "Oi Demo"` `[static]`, `[private]`

The documentation for this class was generated from the following file:

- `src/com/copelabs/socio/contentmanager/ContentManager.java`

## 6.6 com.copelabs.socio.socialproximity.SocialProximity.CustomComparator Class Reference

Inheritance diagram for com.copelabs.socio.socialproximity.SocialProximity.CustomComparator:



### Public Member Functions

- `int compare (SocialWeight entry1, SocialWeight entry2)`

### 6.6.1 Detailed Description

This class allows to sort social weight entries in ascending order.

## 6.6.2 Member Function Documentation

6.6.2.1 `int com.copelabs.socio.socialproximity.SocialProximity.CustomComparator.compare ( SocialWeight entry1, SocialWeight entry2 )`

The documentation for this class was generated from the following file:

- `src/com/copelabs/socio/socialproximity/SocialProximity.java`

## 6.7 com.copelabs.socio.socialproximity.DataBase Class Reference

### Public Member Functions

- `DataBase` (Context context)
- void `openDB` (boolean writable) throws SQLException
- void `closeDB` ()
- long `getNumBTDevice` ()
- void `registerNewBTDevice` (UserDeviceInfo btDev, UserDevEncounterDuration duration, UserDevAverageEncounterDuration averageDuration, UserDevSocialWeight socialWeight)
- void `updateBTDeviceAndDuration` (UserDeviceInfo btDev, UserDevEncounterDuration duration)
- void `updateBTDevAvgEncounterDuration` (UserDevAverageEncounterDuration averageDuration)
- void `updateBTDevSocialWeight` (UserDevSocialWeight socialWeight)
- UserDeviceInfo `getBTDevice` (String btDevice)
- UserDevEncounterDuration `getBTDeviceEncounterDuration` (String btDevEncounterDuration)
- UserDevAverageEncounterDuration `getBTDeviceAverageEncounterDuration` (String btDevAverageEncounterDuration)
- UserDevSocialWeight `getBTDeviceSocialWeight` (String btDevSocialWeight)
- boolean `hasBTDevice` (String btDev)
- Map< String, UserDeviceInfo > `getAllBTDevice` ()
- Map< String, UserDevEncounterDuration > `getAllBTDevEncounterDuration` ()
- Map< String, UserDevAverageEncounterDuration > `getAllBTDevAverageEncounterDuration` ()
- Map< String, UserDevSocialWeight > `getAllBTDevSocialWeight` ()

### Private Member Functions

- UserDeviceInfo `cursorToBTDevice` (Cursor cursor)
- UserDevEncounterDuration `cursorToBTDevEncounterDuration` (Cursor cursor)
- UserDevAverageEncounterDuration `cursorToBTDevAverageEncounterDuration` (Cursor cursor)
- UserDevSocialWeight `cursorToBTDevSocialWeight` (Cursor cursor)

### Private Attributes

- SQLiteDatabase `db`
- boolean `isDbOpen`
- SQLiteHelper `dbHelper`
- String[] `allColumnsBTDevices`
- String[] `allColumnsBTDeviceEncounterDuration`
- String[] `allColumnsBTDeviceAverageEncounterDuration`
- String[] `allColumnsBTDeviceSocialWeight`

### 6.7.1 Detailed Description

This class provides the Database used by Social Proximity class for creation and handling of tables hold information for social weight computation.

### 6.7.2 Constructor & Destructor Documentation

#### 6.7.2.1 `com.copelabs.socio.socialproximity.Database.Database ( Context context )`

This method is the constructor for [DataBase](#).

Parameters

<i>context</i>	The context.
----------------	--------------

### 6.7.3 Member Function Documentation

#### 6.7.3.1 `void com.copelabs.socio.socialproximity.Database.closeDB ( )`

This method closes the predefined database.

#### 6.7.3.2 `UserDevAverageEncounterDuration com.copelabs.socio.socialproximity.Database.cursorToBTDevAverage↔ EncounterDuration ( Cursor cursor ) [private]`

This method converts a cursor pointing to a record in the BTDEVICEAVERAGEENCOUNTERDURATION table to a BTUserDevAverageEncounterDuration object.

Parameters

<i>cursor</i>	The cursor pointing to a record of the BTDEVICEAVERAGEENCOUNTERDURATION table.
---------------	--

Returns

averageDuration The BTUserDevAverageEncounterDuration object.

#### 6.7.3.3 `UserDevEncounterDuration com.copelabs.socio.socialproximity.Database.cursorToBTDevEncounterDuration ( Cursor cursor ) [private]`

This method converts a cursor pointing to a record in the BTDEVICEENCOUNTERDURATION table to a BTUser↔DevEncounterDuration object.

Parameters

<i>cursor</i>	The cursor pointing to a record of the BTDEVICEENCOUNTERDURATION table.
---------------	---

Returns

duration The BTUserDevEncounterDuration object.

#### 6.7.3.4 `UserDeviceInfo com.copelabs.socio.socialproximity.Database.cursorToBTDevice ( Cursor cursor ) [private]`

This method converts a cursor pointing to a record in the BTDEVICE table to a BTDevice object.



## Parameters

<i>cursor</i>	The cursor pointing to a record of the BTDEVICE table.
---------------	--

## Returns

btDev The BTDevice object

#### 6.7.3.5 UserDevSocialWeight com.copelabs.socio.socialproximity.DataBase.cursorToBTDevSocialWeight ( Cursor *cursor* ) [private]

This method converts a cursor pointing to a record in the BTDEVICESOCIALWEIGHT table to a BTUserDev↔ SocialWeight object.

## Parameters

<i>cursor</i>	The cursor pointing to a record of the BTDEVICEAVERAGEENCOUNTERDURATION table.
---------------	--

## Returns

socialWeight The BTUserDevSocialWeight object.

#### 6.7.3.6 Map<String, UserDevAverageEncounterDuration> com.copelabs.socio.socialproximity.DataBase.getAllBT↔ DevAverageEncounterDuration ( )

This method gets the all the BTUserDevAverageEncounterDuration recorded by the application on the BTDEVIC↔ EVERAGEENCOUNTERDURATION table.

## Returns

btDevAverageEncounterDurationMap The map with the BTUserDevAverageEncounterDuration objects, and the BTDEV\_MAC\_ADDRESS as key.

#### 6.7.3.7 Map<String, UserDevEncounterDuration> com.copelabs.socio.socialproximity.DataBase.getAllBTDev↔ EncounterDuration ( )

This method gets the all the BTUserDevEncounterDuration recorded by the application on the BTDEVICEENCO↔ UNTERDURATION table.

## Returns

btDevEncounterDurationMap The map with the BTUserDevEncounterDuration objects, and the BTDEV\_M↔ AC\_ADDRESS as key.

#### 6.7.3.8 Map<String, UserDeviceInfo> com.copelabs.socio.socialproximity.DataBase.getAllBTDevice ( )

This method gets the all the BTDevice recorded by the application on the BTDEVICE table.

## Returns

The map with the BTUserDevice objects, and the BTDEV\_MAC\_ADDRESS as key.

### 6.7.3.9 Map<String, UserDevSocialWeight> com.copelabs.socio.socialproximity.DataBase.getAllBTDevSocialWeight ( )

This method gets the all the BTUserDevSocialWeight recorded by the application on the BTDEVICESOCIALWEIGHT table.

#### Returns

btDevSocialWeightMap The map with the BTUserDevSocialWeight objects, and the BTDEV\_MAC\_ADDRESS as key.

### 6.7.3.10 UserDeviceInfo com.copelabs.socio.socialproximity.DataBase.getBTDevice ( String btDevice )

This method gets information about a BTDevice already registered by the application.

#### Parameters

<i>btDevice</i>	The MAC address of the BTDevice which information should be returned.
-----------------	---

#### Returns

The btDev object, null if not found.

### 6.7.3.11 UserDevAverageEncounterDuration com.copelabs.socio.socialproximity.DataBase.getBTDeviceAverageEncounterDuration ( String btDevAverageEncounterDuration )

This method gets average encounter duration information of a BTDevice already registered by the application.

#### Parameters

<i>btDevAverageEncounterDuration</i>	The MAC address of the BTDevice which information should be returned.
--------------------------------------	---

#### Returns

The btDevAvgEncDur object, null if not found.

### 6.7.3.12 UserDevEncounterDuration com.copelabs.socio.socialproximity.DataBase.getBTDeviceEncounterDuration ( String btDevEncounterDuration )

This method gets encounter duration information of a BTDevice already registered by the application.

#### Parameters

<i>btDevEncounterDuration</i>	The MAC address of the BTDevice which information should be returned.
-------------------------------	---

#### Returns

The btDevEncDur object, null if not found.

### 6.7.3.13 UserDevSocialWeight com.copelabs.socio.socialproximity.DataBase.getBTDeviceSocialWeight ( String btDevSocialWeight )

This method gets social weight information of a BTDevice already registered by the application.

## Parameters

<i>btDevSocialWeight</i>	The MAC address of the BTDevice which information should be returned.
--------------------------	---

## Returns

The btDevSocWeight object, null if not found.

## 6.7.3.14 long com.copelabs.socio.socialproximity.DataBase.getNumBTDevice ( )

This method gets the number of records in the BTDEVICE table. This is, the number of BTDevice registered on the application.

## Returns

The number of BTDevice registered by the application.

6.7.3.15 boolean com.copelabs.socio.socialproximity.DataBase.hasBTDevice ( String *btDev* )

This method checks if a given BTDevice has already been registered by the application.

## Parameters

<i>btDev</i>	The MAC address of the BTDevice.
--------------	----------------------------------

## Returns

true, if BTDevice has already been registered by the application, false otherwise.

6.7.3.16 void com.copelabs.socio.socialproximity.DataBase.openDB ( boolean *writable* ) throws SQLException

This method opens the predefined database.

## Parameters

<i>writable</i>	The flag to determine if database is writable
-----------------	---

## Exceptions

<i>SQLException</i>	
---------------------	--

6.7.3.17 void com.copelabs.socio.socialproximity.DataBase.registerNewBTDevice ( *UserDeviceInfo btDev*, *UserDevEncounterDuration duration*, *UserDevAverageEncounterDuration averageDuration*, *UserDevSocialWeight socialWeight* )

This method registers a new BTDevice in the application. It creates a new record on the BTDEVICE, BTDEVICEENCOUNTERDURATION, BTDEVICEAVERAGEENCOUNTERDURATION, and BTDEVICESOCIALWEIGHT tables, with the information passed as BTDevice.

## Parameters

<i>btDev</i>	The Bluetooth device information.
<i>duration</i>	The Bluetooth device information regarding the duration that the BT device is within communication range of others.
<i>averageDuration</i>	The Bluetooth device information regarding the average duration of encounter between the BT device and other devices.
<i>socialWeight</i>	The Bluetooth device information regarding the social weight of the BT device towards others.

#### 6.7.3.18 void com.copelabs.socio.socialproximity.DataBase.updateBTDevAvgEncounterDuration ( UserDevAverageEncounterDuration *averageDuration* )

This method updates a BTDevice already registered by the application. This modifies the corresponding record to the BTDevice in the BTDEVICEAVERAGEENCOUNTERDURATION table.

##### Parameters

<i>averageDuration</i>	The Bluetooth device information regarding its average encounter duration.
------------------------	--

#### 6.7.3.19 void com.copelabs.socio.socialproximity.DataBase.updateBTDeviceAndDuration ( UserDeviceInfo *btDev*, UserDevEncounterDuration *duration* )

This method updates a BTDevice already registered by the application. This modifies the corresponding record to the BTDevice in the BTDEVICE, BTDEVICEENCOUNTERDURATION, BTDEVICEAVERAGEENCOUNTERDURATION, and BTDEVICESOCIALWEIGHT tables.

##### Parameters

<i>btDev</i>	The Bluetooth device information.
<i>duration</i>	The Bluetooth device information regarding the duration that the BT device is within communication range of others.

#### 6.7.3.20 void com.copelabs.socio.socialproximity.DataBase.updateBTDevSocialWeight ( UserDevSocialWeight *socialWeight* )

This method updates a BTDevice already registered by the application. This modifies the corresponding record to the BTDevice in the BTDEVICESOCIALWEIGHT table.

##### Parameters

<i>socialWeight</i>	The Bluetooth device information regarding its social weight.
---------------------	---

### 6.7.4 Member Data Documentation

#### 6.7.4.1 String [] com.copelabs.socio.socialproximity.DataBase.allColumnsBTDeviceAverageEncounterDuration [private]

##### Initial value:

```
= {
    SQLiteHelper.COLUMN_BTDEV_MAC_ADDRESS,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT1,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT2,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT3,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT4,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT5,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT6,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT7,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT8,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT9,
    SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT10,
```

```

        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT11,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT12,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT13,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT14,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT15,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT16,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT17,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT18,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT19,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT20,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT21,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT22,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT23,
        SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT24
    }

```

List of all columns on the BTDEVICEAVERAGEENCOUNTERDURATION table.

#### 6.7.4.2 String [] com.copelabs.socio.socialproximity.DataBase.allColumnsBTDeviceEncounterDuration [private]

**Initial value:**

```

= {
    SQLiteHelper.COLUMN_BTDEV_MAC_ADDRESS,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT1,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT2,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT3,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT4,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT5,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT6,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT7,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT8,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT9,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT10,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT11,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT12,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT13,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT14,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT15,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT16,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT17,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT18,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT19,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT20,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT21,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT22,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT23,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT24
}

```

List of all columns on the BTDEVICEENCOUNTERDURATION table.

#### 6.7.4.3 String [] com.copelabs.socio.socialproximity.DataBase.allColumnsBTDevices [private]

**Initial value:**

```

= {
    SQLiteHelper.COLUMN_BTDEV_MAC_ADDRESS,
    SQLiteHelper.COLUMN_BTDEV_NAME,
    SQLiteHelper.COLUMN_BTDEV_ENCOUNTERSTART
}

```

List of all columns on the BTDEVICE table.

#### 6.7.4.4 String [] com.copelabs.socio.socialproximity.DataBase.allColumnsBTDeviceSocialWeight [private]

**Initial value:**

```

= {
    SQLiteHelper.COLUMN_BTDEV_MAC_ADDRESS,
    SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT1,

```

```

        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT2,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT3,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT4,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT5,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT6,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT7,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT8,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT9,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT10,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT11,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT12,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT13,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT14,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT15,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT16,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT17,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT18,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT19,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT20,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT21,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT22,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT23,
        SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT24
    }
}

```

List of all columns on the BTDEVICESOCIALWEIGHT table.

#### 6.7.4.5 SQLiteDatabase com.copelabs.socio.socialproximity.DataBase.db [private]

Used to handle database

#### 6.7.4.6 SQLiteHelper com.copelabs.socio.socialproximity.DataBase.dbHelper [private]

Used for creating tables and their attributes in the database

#### 6.7.4.7 boolean com.copelabs.socio.socialproximity.DataBase.isDbOpen [private]

Flag used to check whether database is open

The documentation for this class was generated from the following file:

- [src/com/copelabs/socio/socialproximity/DataBase.java](#)

## 6.8 com.copelabs.socio.socialproximity.DataBaseChangeListener Interface Reference

### Public Member Functions

- void [onDataBaseChangeUserDevice](#) (ArrayList< [UserDeviceInfo](#) > arrayList)
- void [onDataBaseChangeEncDur](#) (ArrayList< [UserDevEncounterDuration](#) > arrayList)
- void [onDataBaseChangeAvgEncDur](#) (ArrayList< [UserDevAverageEncounterDuration](#) > arrayList)
- void [onDataBaseChangeSocialWeight](#) (ArrayList< [UserDevSocialWeight](#) > arrayList)

### 6.8.1 Member Function Documentation

6.8.1.1 void com.copelabs.socio.socialproximity.DataBaseChangeListener.onDataBaseChangeAvgEncDur ( ArrayList< [UserDevAverageEncounterDuration](#) > *arrayList* )

6.8.1.2 void com.copelabs.socio.socialproximity.DataBaseChangeListener.onDataBaseChangeEncDur ( ArrayList< [UserDevEncounterDuration](#) > *arrayList* )

6.8.1.3 void com.copelabs.socio.socialproximity.DataBaseChangeListener.onDataBaseChangeSocialWeight ( ArrayList< UserDevSocialWeight > arrayList )

6.8.1.4 void com.copelabs.socio.socialproximity.DataBaseChangeListener.onDataBaseChangeUserDevice ( ArrayList< UserDeviceInfo > arrayList )

The documentation for this interface was generated from the following file:

- src/com/copelabs/socio/socialproximity/DataBaseChangeListener.java

## 6.9 com.copelabs.socio.contentmanager.FileIO Class Reference

### Static Public Member Functions

- static boolean [writeFile](#) (String mFileType, [Packet](#) mPacket)
- static boolean [writeListFile](#) (String mFileType, List< [Packet](#) > mList, boolean mAppend)
- static List< [Packet](#) > [readFile](#) (String mFileType)

### Static Public Attributes

- static final String [TOSEND](#) = "toSend"
- static final String [LOCALCACHE](#) = "localCache"

### Static Private Attributes

- static final String [TAG](#) = "FileIO"
- static final String [mOthersFolder](#) = "/Oi2.0/ToSend/"
- static final String [mOthersFile](#) = "toSend.xml"
- static final String [mNodeFolder](#) = "/Oi2.0/LocalCache/"
- static final String [mNodeFile](#) = "localCache.xml"

### 6.9.1 Member Function Documentation

6.9.1.1 static List<[Packet](#)> com.copelabs.socio.contentmanager.FileIO.readFile ( String *mFileType* ) [static]

Reads a list of packets at the file chosen by the caller.

Parameters

<i>mFileType</i>	- List of Packets
------------------	-------------------

6.9.1.2 static boolean com.copelabs.socio.contentmanager.FileIO.writeFile ( String *mFileType*, [Packet](#) *mPacket* ) [static]

Writes the packet to an specific xml file in internal storage (private) The caller choose which file it want to write.

Parameters

<i>mFileType</i>	- The file where the packet must be written.
------------------	--

<i>mPacket</i>	- The packet
----------------	--------------

6.9.1.3 `static boolean com.copelabs.socio.contentmanager.FileIO.writeListFile ( String mFileType, List< Packet > mList, boolean mAppend ) [static]`

Writes a list of packets to be sent to a specific xml file in internal storage (private) The caller choose which file it want to write.

Parameters

<i>mFileType</i>	- The file where the list of packets must be written.
<i>mList</i>	- The list of packets.
<i>mAppend</i>	- If append is true and the file already exists, it will be appended to; otherwise it will be truncated.

## 6.9.2 Member Data Documentation

6.9.2.1 `final String com.copelabs.socio.contentmanager.FileIO.LOCALCACHE = "localCache" [static]`

6.9.2.2 `final String com.copelabs.socio.contentmanager.FileIO.mNodeFile = "localCache.xml" [static],[private]`

"LocalCache" file name

6.9.2.3 `final String com.copelabs.socio.contentmanager.FileIO.mNodeFolder = "/Oi2.0/LocalCache/" [static],[private]`

/\*\* Path to the "LocalCache" folder

6.9.2.4 `final String com.copelabs.socio.contentmanager.FileIO.mOthersFile = "toSend.xml" [static],[private]`

"ToSend" file name

6.9.2.5 `final String com.copelabs.socio.contentmanager.FileIO.mOthersFolder = "/Oi2.0/ToSend/" [static],[private]`

Path to the "ToSend" folder

6.9.2.6 `final String com.copelabs.socio.contentmanager.FileIO.TAG = "FileIO" [static],[private]`

6.9.2.7 `final String com.copelabs.socio.contentmanager.FileIO.TOSEND = "toSend" [static]`

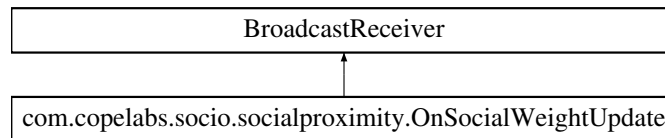
The documentation for this class was generated from the following file:

- [src/com/copelabs/socio/contentmanager/FileIO.java](#)

## 6.10 com.copelabs.socio.socialproximity.OnSocialWeightUpdate Class Reference

Inheritance diagram for com.copelabs.socio.socialproximity.OnSocialWeightUpdate:





### Public Member Functions

- [OnSocialWeightUpdate](#) ([DataBase](#) database2, [SocialProximity](#) callback)
- void [onReceive](#) (Context context, Intent intent)
- void [computeSocialWeight](#) (int savDay, int currDay, int currTimeSlot, long currTime, boolean appR, boolean updOverDiffDays)
- int [getTimeSlot](#) ()
- void [showDevicesOnDB](#) ()

### Static Public Attributes

- static int [day](#) = 1
- static final String [NEW\\_HOUR](#)

### Private Member Functions

- void [notifyDataBaseChange](#) ()
- void [writeToSD](#) (String text)

### Private Attributes

- final String [TAG](#) = "Social Proximity"
- [DataBase](#) [database](#)
- boolean [debug](#) = true
- ArrayList< [DataBaseChangeListener](#) > [listeners](#) = new ArrayList<[DataBaseChangeListener](#)> ()

## 6.10.1 Detailed Description

This class is responsible for computing the social weight among users.

## 6.10.2 Constructor & Destructor Documentation

### 6.10.2.1 com.copelabs.socio.socialproximity.OnSocialWeightUpdate.OnSocialWeightUpdate ( [DataBase](#) *database2*, [SocialProximity](#) *callback* )

This method is the constructor for [OnSocialWeightUpdate](#).

#### Parameters

<i>database2</i>	The database to be used.
<i>callback</i>	The <a href="#">SocialProximity</a> object to allow notification on social weight changes.

### 6.10.3 Member Function Documentation

6.10.3.1 void com.copelabs.socio.socialproximity.OnSocialWeightUpdate.computeSocialWeight ( int *savDay*, int *currDay*, int *currTimeSlot*, long *currTime*, boolean *appR*, boolean *updOverDiffDays* )

This method computes the social weight towards all encountered nodes

## Parameters

<i>savDay</i>	The day the app started running.
<i>currDay</i>	The current day when the app restarted.
<i>currTimeSlot</i>	The current time slot when the app restarted.
<i>currTime</i>	The current time when the app restarted.
<i>appR</i>	The flag that tells whether the app restarted.
<i>updOverDiffDays</i>	The flag that indicates the updates occur over different days.

6.10.3.2 `int com.copelabs.socio.socialproximity.OnSocialWeightUpdate.getTimeSlot ( )`

This method provides the current time slot.

## Returns

currentTimeSlot The actual time slot.

6.10.3.3 `void com.copelabs.socio.socialproximity.OnSocialWeightUpdate.notifyDataBaseChange ( ) [private]`

This method notifies a database change to the listeners.

6.10.3.4 `void com.copelabs.socio.socialproximity.OnSocialWeightUpdate.onReceive ( Context context, Intent intent )`

This method receives action concerning social weight updates.

## Parameters

<i>context</i>	The context.
<i>intent</i>	The intent.

6.10.3.5 `void com.copelabs.socio.socialproximity.OnSocialWeightUpdate.showDevicesOnDB ( )`

This method shows the Bluetooth devices stored on the DB.

6.10.3.6 `void com.copelabs.socio.socialproximity.OnSocialWeightUpdate.writeToSD ( String text ) [private]`

Writes on a file for Bluetooth debugging

## Parameters

<i>text</i>	The text to be printed.
-------------	-------------------------

## 6.10.4 Member Data Documentation

6.10.4.1 `DataBase com.copelabs.socio.socialproximity.OnSocialWeightUpdate.database [private]`

Sets the database used for social weight computation

6.10.4.2 `int com.copelabs.socio.socialproximity.OnSocialWeightUpdate.day = 1 [static]`

Sets the beginning of the day count used for social weight computation

6.10.4.3 `boolean com.copelabs.socio.socialproximity.OnSocialWeightUpdate.debug = true` [private]

Flag used for debugging purposes

6.10.4.4 `ArrayList<DataBaseChangeListener> com.copelabs.socio.socialproximity.OnSocialWeightUpdate.listeners = new ArrayList<DataBaseChangeListener> ()` [private]

6.10.4.5 `final String com.copelabs.socio.socialproximity.OnSocialWeightUpdate.NEW_HOUR` [static]

**Initial value:**

```
=
    "android.intent.action.NEWHOUR"
```

Defines update action

6.10.4.6 `final String com.copelabs.socio.socialproximity.OnSocialWeightUpdate.TAG = "Social Proximity"` [private]

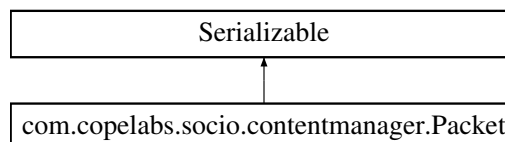
Tag used for debugging purposes

The documentation for this class was generated from the following file:

- [src/com/copelabs/socio/socialproximity/OnSocialWeightUpdate.java](#)

## 6.11 com.copelabs.socio.contentmanager.Packet Class Reference

Inheritance diagram for com.copelabs.socio.contentmanager.Packet:



### Public Member Functions

- [Packet](#) ()
- [Packet](#) (String myBTMAC, String myBTName)
- String [getIdSource](#) ()
- String [getIdDestination](#) ()
- String [getNameSource](#) ()
- String [getNameDestination](#) ()
- String [getApplication](#) ()
- String [getMessage](#) ()
- long [getTimestamp](#) ()
- void [setIdSource](#) (String idSource)
- void [setNameSource](#) (String nameSource)
- void [setIdDestination](#) (String idDestination)
- void [setNameDestination](#) (String nameDestination)
- void [setApplication](#) (String application)
- void [setAttributes](#) (String idSource, String nameSource, String idDestination, String nameDestination, String application, String message, long timestamp)
- void [setMessage](#) (String msg)
- void [setTimestamp](#) (long ts)
- String [getXmlEntry](#) ()

## Static Public Attributes

- static final String `TAG_ID_SOURCE` = "idSource"
- static final String `TAG_NAME_SOURCE` = "nameSource"
- static final String `TAG_ID_DESTINATION` = "idDestination"
- static final String `TAG_NAME_DESTINATION` = "nameDestination"
- static final String `TAG_APPLICATION` = "application"
- static final String `TAG_MESSAGE` = "message"
- static final String `TAG_TIMESTAMP` = "timestamp"

## Private Attributes

- String `idSource`
- String `nameSource`
- String `idDestination`
- String `nameDestination`
- String `application`
- String `message` = ""
- long `timestamp`

## Static Private Attributes

- static final long `serialVersionUID` = 1L

### 6.11.1 Detailed Description

#### Parameters

<i>idSource</i>	the identifier of the owner's contact (BT MAC)
<i>nameSource</i>	the name of the Sender contact (BT Name)
<i>idDestination</i>	the identifier of the selected contact (BT MAC)
<i>nameDestination</i>	the name of the Receiver contact (BT Name)
<i>message</i>	the message content
<i>timestamp</i>	the timestamp for writing the message

### 6.11.2 Constructor & Destructor Documentation

6.11.2.1 `com.copelabs.socio.contentmanager.Packet.Packet ( )`

6.11.2.2 `com.copelabs.socio.contentmanager.Packet.Packet ( String myBTMAC, String myBTName )`

### 6.11.3 Member Function Documentation

6.11.3.1 `String com.copelabs.socio.contentmanager.Packet.getApplication ( )`

6.11.3.2 `String com.copelabs.socio.contentmanager.Packet.getIdDestination ( )`

6.11.3.3 `String com.copelabs.socio.contentmanager.Packet.getIdSource ( )`

6.11.3.4 `String com.copelabs.socio.contentmanager.Packet.getMessage ( )`

6.11.3.5 `String com.copelabs.socio.contentmanager.Packet.getNameDestination ( )`

6.11.3.6 String com.copelabs.socio.contentmanager.Packet.getNameSource ( )

6.11.3.7 long com.copelabs.socio.contentmanager.Packet.getTimestamp ( )

6.11.3.8 String com.copelabs.socio.contentmanager.Packet.getXmlEntry ( )

Writes an OiMessage (List) in xml format

Returns

String an entry containing the xml format for an OiMessage

6.11.3.9 void com.copelabs.socio.contentmanager.Packet.setApplication ( String application )

6.11.3.10 void com.copelabs.socio.contentmanager.Packet.setAttributes ( String idSource, String nameSource, String idDestination, String nameDestination, String application, String message, long timestamp )

6.11.3.11 void com.copelabs.socio.contentmanager.Packet.setIdDestination ( String idDestination )

6.11.3.12 void com.copelabs.socio.contentmanager.Packet.setIdSource ( String idSource )

6.11.3.13 void com.copelabs.socio.contentmanager.Packet.setMessage ( String msg )

6.11.3.14 void com.copelabs.socio.contentmanager.Packet.setNameDestination ( String nameDestination )

6.11.3.15 void com.copelabs.socio.contentmanager.Packet.setNameSource ( String nameSource )

6.11.3.16 void com.copelabs.socio.contentmanager.Packet.setTimestamp ( long ts )

#### 6.11.4 Member Data Documentation

6.11.4.1 String com.copelabs.socio.contentmanager.Packet.application [private]

6.11.4.2 String com.copelabs.socio.contentmanager.Packet.idDestination [private]

6.11.4.3 String com.copelabs.socio.contentmanager.Packet.idSource [private]

6.11.4.4 String com.copelabs.socio.contentmanager.Packet.message = "" [private]

6.11.4.5 String com.copelabs.socio.contentmanager.Packet.nameDestination [private]

6.11.4.6 String com.copelabs.socio.contentmanager.Packet.nameSource [private]

6.11.4.7 final long com.copelabs.socio.contentmanager.Packet.serialVersionUID = 1L [static], [private]

6.11.4.8 final String com.copelabs.socio.contentmanager.Packet.TAG\_APPLICATION = "application" [static]

6.11.4.9 final String com.copelabs.socio.contentmanager.Packet.TAG\_ID\_DESTINATION = "idDestination" [static]

6.11.4.10 final String com.copelabs.socio.contentmanager.Packet.TAG\_ID\_SOURCE = "idSource" [static]

6.11.4.11 final String com.copelabs.socio.contentmanager.Packet.TAG\_MESSAGE = "message" [static]

6.11.4.12 final String com.copelabs.socio.contentmanager.Packet.TAG\_NAME\_DESTINATION = "nameDestination" [static]

6.11.4.13 final String com.copelabs.socio.contentmanager.Packet.TAG\_NAME\_SOURCE = "nameSource" [static]

6.11.4.14 final String com.copelabs.socio.contentmanager.Packet.TAG\_TIMESTAMP = "timestamp" [static]

6.11.4.15 long com.copelabs.socio.contentmanager.Packet.timestamp [private]

The documentation for this class was generated from the following file:

- src/com/copelabs/socio/contentmanager/Package.java

## 6.12 com.copelabs.socio.router.Routing Class Reference

### Public Member Functions

- [Routing](#) (Context context)
- List< UserDevice > [getContactList](#) ()
- Map< String, Integer > [getSWList](#) (ArrayList< String > mDevices)
- Map< String, Integer > [getAllSWList](#) ()
- List< String > [getLocalInfo](#) ()
- String [getLocalMacAddress](#) ()
- String [getLocalName](#) ()
- void [stop](#) ()
- void [setRoutingListener](#) (RoutingListener listener)
- void [newContentAvailable](#) (Packet mPacket)

### Public Attributes

- ArrayList< [RoutingListener](#) > [listeners](#) = new ArrayList<[RoutingListener](#)> ()

### Static Public Attributes

- static final String [TAG](#) ="Routing"

### Private Member Functions

- String [addColonMAC](#) (String toConvert)
- void [announceListSocialWeight](#) (Map< String, Integer > mList)
- Map< String, String > [convertMapValueDoubleToString](#) (Map< String, Integer > map)
- void [notifyPacketReceived](#) (List< [Packet](#) > mListOfPackets)
- Map< String, List< [Packet](#) > > [getListOfPackets](#) (List< UserDevice > mListOfUserDevices)
- void [notifyNewDeviceFound](#) (UserDevice mUserDevice)
- void [notifyDeviceDisappear](#) (UserDevice mUserDevice)
- void [notifyContactListUpdated](#) (List< UserDevice > mList)
- void [notifyError](#) (int mError)

### Private Attributes

- [SocialProximity](#) pSocialProximity
- [WiFiDirect](#) pWiFiDirect

## 6.12.1 Constructor & Destructor Documentation

### 6.12.1.1 `com.copelabs.socio.router.Routing.Routing ( Context context )`

[Routing](#) constructor. It initializes the social proximity and WiFi direct modules and the respective listeners.



## Parameters

<i>context</i>	Interface to global information about an application environment.
----------------	---

## 6.12.2 Member Function Documentation

## 6.12.2.1 String com.copelabs.socio.router.Routing.addColonMAC ( String toConvert ) [private]

Used to complete the mac address with colons

## Parameters

<i>toConvert</i>	MAC address to convert
------------------	------------------------

## Returns

complete MAC address

## 6.12.2.2 void com.copelabs.socio.router.Routing.announceListSocialWeight ( Map&lt; String, Integer &gt; mList ) [private]

Used to update broadcast information at the interface layer.

## Parameters

<i>mList</i>	- List of known contacts and their social weight.
--------------	---

## 6.12.2.3 Map&lt;String, String&gt; com.copelabs.socio.router.Routing.convertMapValueDoubleToString ( Map&lt; String, Integer &gt; map ) [private]

Convert Map<String, Double> to Map<String, String> needed by the WiFi Direct

## Parameters

<i>map</i>	Map to be converted.
------------	----------------------

## Returns

Map converted

## 6.12.2.4 Map&lt;String, Integer&gt; com.copelabs.socio.router.Routing.getAllSWList ( )

Provides a list of all encountered devices and social weight towards them

## Returns

The list of all encountered devices and social weight towards them, or null

## 6.12.2.5 List&lt;UserDevice&gt; com.copelabs.socio.router.Routing.getContactList ( )

Provides a list of contact based on the information of devices encountered

## Returns

The list of contacts or null

6.12.2.6 `Map<String, List<Packet> > com.copelabs.socio.router.Routing.getListOfPackets ( List< UserDevice > mListOfUserDevices ) [private]`

Provides a list of available packets to be sent to the given peers

#### Returns

List of Packets available to send or null if Content Manager is not available.

6.12.2.7 `List<String> com.copelabs.socio.router.Routing.getLocalInfo ( )`

Provides the info of local Bluetooth adapter

#### Returns

localMacAdd The local MAC Address or null

6.12.2.8 `String com.copelabs.socio.router.Routing.getLocalMacAddress ( )`

Provides the MAC Address of local Bluetooth adapter

#### Returns

BT MAC address

6.12.2.9 `String com.copelabs.socio.router.Routing.getLocalName ( )`

Provides the device name of local Bluetooth adapter

#### Returns

Device name

6.12.2.10 `Map<String, Integer> com.copelabs.socio.router.Routing.getSWList ( ArrayList< String > mDevices )`

Provides a list of encountered devices and social weight towards them

#### Returns

The list of encountered devices and social weight towards them, or null

6.12.2.11 `void com.copelabs.socio.router.Routing.newContentAvailable ( Packet mPacket )`

When new packets are received, a new SW list from neighbours is requested.

#### Parameters

<i>mPacket</i>	
----------------	--

6.12.2.12 `void com.copelabs.socio.router.Routing.notifyContactListUpdated ( List< UserDevice > mList ) [private]`

Provides a updated contact list.

## Parameters

<i>mList</i>	Contact list
--------------	--------------

6.12.2.13 void com.copelabs.socio.router.Routing.notifyDeviceDisappear ( *UserDevice mUserDevice* ) [private]

Send a notification with the device info that is no longer available.

## Parameters

<i>mUserDevice</i>	Device info
--------------------	-------------

6.12.2.14 void com.copelabs.socio.router.Routing.notifyError ( int *mError* ) [private]

Notifies a error occurred inside the framework.

## Parameters

<i>mError</i>	- Error code
---------------	--------------

6.12.2.15 void com.copelabs.socio.router.Routing.notifyNewDeviceFound ( *UserDevice mUserDevice* ) [private]

Provides the info about the device found.

## Parameters

<i>mUserDevice</i>	Device info
--------------------	-------------

6.12.2.16 void com.copelabs.socio.router.Routing.notifyPacketReceived ( List< **Packet** > *mListOfPackets* ) [private]

Notifies the ContentManager class that a new packet arrived.

## Parameters

<i>mListOfPackets</i>	List of packets received
-----------------------	--------------------------

6.12.2.17 void com.copelabs.socio.router.Routing.setRoutingListener ( **RoutingListener** *listener* )

Set the listener. Used by the content manager to receive info from the routing.

## Parameters

<i>listener</i>	
-----------------	--

6.12.2.18 void com.copelabs.socio.router.Routing.stop ( )

Stops the [Routing](#) module, including the WiFiDirect and SocialProximity modules.

## 6.12.3 Member Data Documentation

6.12.3.1 ArrayList<**RoutingListener**> com.copelabs.socio.router.Routing.listeners = new ArrayList<**RoutingListener**>()

Used to send data to the Content Manager

### 6.12.3.2 SocialProximity `com.copelabs.socio.router.Routing.pSocialProximity` [private]

Social Proximity Module

### 6.12.3.3 WiFiDirect `com.copelabs.socio.router.Routing.pWiFiDirect` [private]

WiFi Direct Module

### 6.12.3.4 `final String com.copelabs.socio.router.Routing.TAG = "Routing"` [static]

The documentation for this class was generated from the following file:

- [src/com/copelabs/socio/router/Routing.java](#)

## 6.13 `com.copelabs.socio.router.RoutingListener` Interface Reference

### Public Member Functions

- void `onPacketReceived` (List< [Packet](#) > `mListOfPackets`)
- Map< String, List< [Packet](#) > > `getListOfPackets` (List< `UserDevice` > `mListOfUserDevices`)
- void `newDeviceFound` (`UserDevice mDevice`)
- void `deviceLost` (`UserDevice mDevice`)
- void `contactListUpdated` (List< `UserDevice` > `mListOfPackets`)
- void `error` (int `mError`)

### 6.13.1 Member Function Documentation

6.13.1.1 void `com.copelabs.socio.router.RoutingListener.contactListUpdated` ( List< `UserDevice` > `mListOfPackets` )

6.13.1.2 void `com.copelabs.socio.router.RoutingListener.deviceLost` ( `UserDevice mDevice` )

6.13.1.3 void `com.copelabs.socio.router.RoutingListener.error` ( int `mError` )

6.13.1.4 Map<String, List<[Packet](#)> > `com.copelabs.socio.router.RoutingListener.getListOfPackets` ( List< `UserDevice` > `mListOfUserDevices` )

6.13.1.5 void `com.copelabs.socio.router.RoutingListener.newDeviceFound` ( `UserDevice mDevice` )

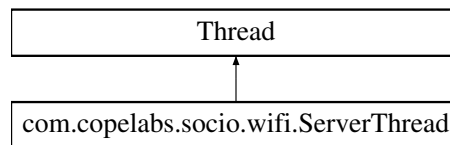
6.13.1.6 void `com.copelabs.socio.router.RoutingListener.onPacketReceived` ( List< [Packet](#) > `mListOfPackets` )

The documentation for this interface was generated from the following file:

- [src/com/copelabs/socio/router/RoutingListener.java](#)

## 6.14 `com.copelabs.socio.wifi.ServerThread` Class Reference

Inheritance diagram for `com.copelabs.socio.wifi.ServerThread`:



## Public Member Functions

- [ServerThread](#) (Handler [handler](#), Map< String, List< [Packet](#) >> [mToSend](#)) throws IOException
- void [run](#) ()

## Static Public Attributes

- static final int [SERVER\\_PORT](#) = 4545

## Private Attributes

- Handler [handler](#)
- Map< String, List< [Packet](#) > > [mToSend](#)

## Static Private Attributes

- static final String [TAG](#) = "GroupOwnerSocketHandler"

### 6.14.1 Detailed Description

The implementation of a ServerSocket handler. This is used by the wifi p2p group owner.

### 6.14.2 Constructor & Destructor Documentation

- 6.14.2.1 `com.copelabs.socio.wifi.ServerThread.ServerThread ( Handler handler, Map< String, List< Packet >> mToSend )`  
throws IOException

[ServerThread](#) constructor

Parameters

<i>handler</i>	A Handler allows you to send and process Message.
<i>mToSend</i>	Content to be send

Exceptions

<i>IOException</i>	Signals a general, I/O-related error.
--------------------	---------------------------------------

### 6.14.3 Member Function Documentation

- 6.14.3.1 `void com.copelabs.socio.wifi.ServerThread.run ( )`

### 6.14.4 Member Data Documentation

- 6.14.4.1 Handler `com.copelabs.socio.wifi.ServerThread.handler` [private]

A Handler allows you to send and process Message.

6.14.4.2 `Map<String, List<Packet> > com.copelabs.socio.wifi.ServerThread.mToSend` [private]

Content to be send

6.14.4.3 `final int com.copelabs.socio.wifi.ServerThread.SERVER_PORT = 4545` [static]

Server port

6.14.4.4 `final String com.copelabs.socio.wifi.ServerThread.TAG = "GroupOwnerSocketHandler"` [static], [private]

The documentation for this class was generated from the following file:

- `src/com/copelabs/socio/wifi/ServerThread.java`

## 6.15 com.copelabs.socio.socialproximity.SocialProximity Class Reference

### Classes

- class [CustomComparator](#)
- class **ServiceBTListener**

### Public Member Functions

- [SocialProximity](#) (Context [context](#))
- boolean [isDeviceOnDB](#) (String deviceAdd)
- int [getTimeSlot](#) ()
- List< UserDevice > [getContactList](#) ()
- Map< String, Integer > [getSWList](#) (ArrayList< String > mDevices)
- Map< String, Integer > [getAllSWList](#) ()
- List< String > [getLocalInfo](#) ()
- void [stop](#) ()
- void [setSocialProximityListener](#) ([SocialProximityListener](#) listener)
- void [notifySWListUpdate](#) ()
- void [notifyNewDeviceEntry](#) ()

### Static Public Member Functions

- static void [appRestartReset](#) ()

### Public Attributes

- ArrayList< [SocialProximityListener](#) > [listeners](#) = new ArrayList<[SocialProximityListener](#)> ()

### Static Public Attributes

- static boolean [appRestarted](#) = false
- static final String [DATABASE\\_CHANGE](#) = "com.social.proximity.CHANGE"

## Private Member Functions

- void [initializeModules](#) (Context [context](#))
- void [setNewHourAlarm](#) ()
- void [createPrefFile](#) ()
- void [notifyDataBaseChange](#) ()

## Static Private Member Functions

- static void [writeToSD](#) (String text)

## Private Attributes

- [BluetoothManager](#) [myBTManager](#)
- [ServiceBTListener](#) [btListener](#)
- [AlarmManager](#) [alarmMgr](#)
- [PendingIntent](#) [alarmIntent](#)
- [OnSocialWeightUpdate](#) [newHour](#)
- Context [context](#)
- [DataBase](#) [database](#)

## Static Private Attributes

- static final String [TAG](#) = "Social Proximity"
- static boolean [debug](#) = false

### 6.15.1 Detailed Description

This class contains the core functionalities of the application. The BTManager provides all the information from Bluetooth adapter so this class can perform the social context analysis prior to storing the required information in the database.

### 6.15.2 Constructor & Destructor Documentation

#### 6.15.2.1 com.copelabs.socio.socialproximity.SocialProximity.SocialProximity ( Context *context* )

This method is the constructor for [SocialProximity](#).

##### Parameters

<i>context</i>	The context.
----------------	--------------

### 6.15.3 Member Function Documentation

#### 6.15.3.1 static void com.copelabs.socio.socialproximity.SocialProximity.appRestartReset ( ) [static]

This method resets flag for when app was restarted

#### 6.15.3.2 void com.copelabs.socio.socialproximity.SocialProximity.createPrefFile ( ) [private]

This method creates the preference file with information about the day and time slot when the app was started. If the file exists, updates it accordingly

#### 6.15.3.3 `Map<String, Integer> com.copelabs.socio.socialproximity.SocialProximity.getAllSWList ( )`

This method provides a list of all social weights to send to neighbors.

##### Returns

`listAllWeights` The list of all computed social weights.

#### 6.15.3.4 `List<UserDevice> com.copelabs.socio.socialproximity.SocialProximity.getContactList ( )`

This method provides a list of contact based on the information of devices encountered.

##### Returns

`listOfContacts` The list of contacts.

#### 6.15.3.5 `List<String> com.copelabs.socio.socialproximity.SocialProximity.getLocalInfo ( )`

This method provides the name and the MAC Address of local Bluetooth adapter.

##### Returns

The local info or null

#### 6.15.3.6 `Map<String, Integer> com.copelabs.socio.socialproximity.SocialProximity.getSWList ( ArrayList< String > mDevices )`

This method provides a list of social weights for forwarding decisions.

##### Parameters

<code>mDevices</code>	The list of devices to get the SW.
-----------------------	------------------------------------

##### Returns

`swList` The list of social weights.

#### 6.15.3.7 `int com.copelabs.socio.socialproximity.SocialProximity.getTimeSlot ( )`

This method provides the current time slot.

##### Returns

`currentTimeSlot` The actual time slot.

#### 6.15.3.8 `void com.copelabs.socio.socialproximity.SocialProximity.initializeModules ( Context context )` [private]

This method initializes all modules used by Social Proximity. Each module is located in different packages.



## Parameters

<i>context</i>	The context.
----------------	--------------

Creates a file for Bluetooth debugging

#### 6.15.3.9 boolean com.copelabs.socio.socialproximity.SocialProximity.isDeviceOnDB ( String *deviceAdd* )

This method checks whether the device is in DB

## Parameters

<i>deviceAdd</i>	The device MAC address.
------------------	-------------------------

## Returns

true if device is in DB, false otherwise

#### 6.15.3.10 void com.copelabs.socio.socialproximity.SocialProximity.notifyDataBaseChange ( ) [private]

This method notifies a database change to the listeners.

#### 6.15.3.11 void com.copelabs.socio.socialproximity.SocialProximity.notifyNewDeviceEntry ( )

This method notifies the Routing class of a contact list update.

#### 6.15.3.12 void com.copelabs.socio.socialproximity.SocialProximity.notifySWListUpdate ( )

This method notifies the Routing class that social list has been updated.

#### 6.15.3.13 void com.copelabs.socio.socialproximity.SocialProximity.setNewHourAlarm ( ) [private]

This method sets an alarm triggered every four minutes for social weight computation.

#### 6.15.3.14 void com.copelabs.socio.socialproximity.SocialProximity.setSocialProximityListener ( SocialProximityListener *listener* )

This method sets the listener that Routing will use to inform about update on the social list.

## Parameters

<i>listener</i>	The listener to register
-----------------	--------------------------

#### 6.15.3.15 void com.copelabs.socio.socialproximity.SocialProximity.stop ( )

This method unregisters BroadcastReceiver, cancels the alarm, and closes the Bluetooth manager.

#### 6.15.3.16 static void com.copelabs.socio.socialproximity.SocialProximity.writeToSD ( String *text* ) [static], [private]

Writes on a file for Bluetooth debugging

## Parameters

<i>text</i>	The text to be printed
-------------	------------------------

## 6.15.4 Member Data Documentation

- 6.15.4.1 `PendingIntent` `com.copelabs.socio.socialproximity.SocialProximity.alarmIntent` [private]
- 6.15.4.2 `AlarmManager` `com.copelabs.socio.socialproximity.SocialProximity.alarmMgr` [private]
- 6.15.4.3 `boolean` `com.copelabs.socio.socialproximity.SocialProximity.appRestarted = false` [static]
- 6.15.4.4 `ServiceBTListener` `com.copelabs.socio.socialproximity.SocialProximity.btListener` [private]
- 6.15.4.5 `Context` `com.copelabs.socio.socialproximity.SocialProximity.context` [private]
- 6.15.4.6 `DataBase` `com.copelabs.socio.socialproximity.SocialProximity.database` [private]
- 6.15.4.7 `final String` `com.copelabs.socio.socialproximity.SocialProximity.DATABASE_CHANGE = "com.social.proximity.CHANGE"` [static]
- 6.15.4.8 `boolean` `com.copelabs.socio.socialproximity.SocialProximity.debug = false` [static], [private]
- 6.15.4.9 `ArrayList<SocialProximityListener>` `com.copelabs.socio.socialproximity.SocialProximity.listeners = new ArrayList<SocialProximityListener> ()`
- 6.15.4.10 `BluetoothManager` `com.copelabs.socio.socialproximity.SocialProximity.myBTManager` [private]
- 6.15.4.11 `OnSocialWeightUpdate` `com.copelabs.socio.socialproximity.SocialProximity.newHour` [private]
- 6.15.4.12 `final String` `com.copelabs.socio.socialproximity.SocialProximity.TAG = "Social Proximity"` [static], [private]

The documentation for this class was generated from the following file:

- `src/com/copelabs/socio/socialproximity/SocialProximity.java`

6.16 `com.copelabs.socio.socialproximity.SocialProximityListener` Interface Reference

## Public Member Functions

- void `notifySWListUpdate ()`
- void `notifyNewDeviceEntry ()`

## 6.16.1 Member Function Documentation

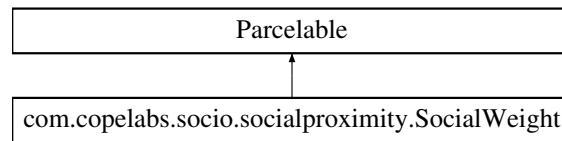
- 6.16.1.1 void `com.copelabs.socio.socialproximity.SocialProximityListener.notifyNewDeviceEntry ( )`
- 6.16.1.2 void `com.copelabs.socio.socialproximity.SocialProximityListener.notifySWListUpdate ( )`

The documentation for this interface was generated from the following file:

- `src/com/copelabs/socio/socialproximity/SocialProximityListener.java`

## 6.17 com.copelabs.socio.socialproximity.SocialWeight Class Reference

Inheritance diagram for com.copelabs.socio.socialproximity.SocialWeight:



### Public Member Functions

- [SocialWeight](#) (String [mMacAddress](#), String [mDeviceName](#), double [mSocialWeight](#))
- void [setMacAddress](#) (String [mMacAddress](#))
- String [getMacAddress](#) ()
- void [setDeviceName](#) (String [mDeviceName](#))
- String [getDeviceName](#) ()
- void [setSocialWeight](#) (long [mSocialWeight](#))
- double [getSocialWeight](#) ()
- int [describeContents](#) ()
- void [writeToParcel](#) (Parcel dest, int flags)

### Public Attributes

- final Creator<?> [CREATOR](#)

### Static Public Attributes

- static final String [socialWeight\\_key](#) = "socialReceiver"

### Private Member Functions

- [SocialWeight](#) (Parcel source)

### Private Attributes

- String [mMacAddress](#)
- String [mDeviceName](#)
- double [mSocialWeight](#)

### 6.17.1 Detailed Description

This class holds information about a device: name, MAC address, and social weight towards it.

### 6.17.2 Constructor & Destructor Documentation

#### 6.17.2.1 com.copelabs.socio.socialproximity.SocialWeight.SocialWeight ( String *mMacAddress*, String *mDeviceName*, double *mSocialWeight* )

This method is the constructor for [SocialWeight](#).

## Parameters

<i>mMacAddress</i>	The MAC address of the device.
<i>mDeviceName</i>	The name of the device.
<i>mSocialWeight</i>	The social weight towards the device.

**6.17.2.2** `com.copelabs.socio.socialproximity.SocialWeight.SocialWeight ( Parcel source )` [private]

This method is the constructor for [SocialWeight](#).

## Parameters

<i>source</i>	The Parcel source from which information can be extracted.
---------------	--

**6.17.3 Member Function Documentation****6.17.3.1** `int com.copelabs.socio.socialproximity.SocialWeight.describeContents ( )`**6.17.3.2** `String com.copelabs.socio.socialproximity.SocialWeight.getDeviceName ( )`

This method gets the device's name.

**6.17.3.3** `String com.copelabs.socio.socialproximity.SocialWeight.getMacAddress ( )`

This method gets the device's MAC address.

**6.17.3.4** `double com.copelabs.socio.socialproximity.SocialWeight.getSocialWeight ( )`

This method gets the device's social weight.

**6.17.3.5** `void com.copelabs.socio.socialproximity.SocialWeight.setDeviceName ( String mDeviceName )`

This method sets the device's name.

## Parameters

<i>mDeviceName</i>	The device's name.
--------------------	--------------------

**6.17.3.6** `void com.copelabs.socio.socialproximity.SocialWeight.setMacAddress ( String mMacAddress )`

This method sets the device's MAC address.

## Parameters

<i>mMacAddress</i>	The device's MAC address.
--------------------	---------------------------

**6.17.3.7** `void com.copelabs.socio.socialproximity.SocialWeight.setSocialWeight ( long mSocialWeight )`

This method sets the device's social weight.

## Parameters

<i>mSocialWeight</i>	The device's social weight.
----------------------	-----------------------------

6.17.3.8 void com.copelabs.socio.socialproximity.SocialWeight.writeToParcel ( Parcel *dest*, int *flags* )

## 6.17.4 Member Data Documentation

6.17.4.1 final Creator<?> com.copelabs.socio.socialproximity.SocialWeight.CREATOR

### Initial value:

```
= new Creator<Object>() {
    @Override
    public SocialWeight createFromParcel(Parcel in) {
        return new SocialWeight(in);
    }
    @Override
    public SocialWeight[] newArray(int size) {
        return new SocialWeight[size];
    }
}
```

6.17.4.2 String com.copelabs.socio.socialproximity.SocialWeight.mDeviceName [private]

Device name

6.17.4.3 String com.copelabs.socio.socialproximity.SocialWeight.mMacAddress [private]

MAC Address

6.17.4.4 double com.copelabs.socio.socialproximity.SocialWeight.mSocialWeight [private]

Social Weight

6.17.4.5 final String com.copelabs.socio.socialproximity.SocialWeight.socialWeight\_key = "socialReceiver" [static]

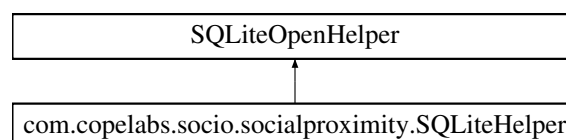
index Key

The documentation for this class was generated from the following file:

- src/com/copelabs/socio/socialproximity/[SocialWeight.java](#)

## 6.18 com.copelabs.socio.socialproximity.SQLiteHelper Class Reference

Inheritance diagram for com.copelabs.socio.socialproximity.SQLiteHelper:



## Public Member Functions

- [SQLiteHelper](#) (Context context)
- void [onCreate](#) (SQLiteDatabase dataBase)
- void [onUpgrade](#) (SQLiteDatabase dataBase, int oldVersion, int newVersion)

## Static Public Attributes

- static final String [TABLE\\_BTDEVICE](#) = "btdevices"
- static final String [TABLE\\_BTDEVICEENCOUNTERDURATION](#) = "btdevice\_encounterduration"
- static final String [TABLE\\_BTDEVICEAVERAGEENCOUNTERDURATION](#) = "btdevice\_averageencounterduration"
- static final String [TABLE\\_BTDEVICESOCIALWEIGHT](#) = "btdevice\_socialweight"
- static final String [COLUMN\\_ID](#) = "\_id"
- static final String [COLUMN\\_BTDEV\\_MAC\\_ADDRESS](#) = "devBtMacAdd"
- static final String [COLUMN\\_BTDEV\\_NAME](#) = "devName"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERSTART](#) = "devEncounterStart"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT1](#) = "devEncounterDuration\_slot1"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT2](#) = "devEncounterDuration\_slot2"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT3](#) = "devEncounterDuration\_slot3"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT4](#) = "devEncounterDuration\_slot4"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT5](#) = "devEncounterDuration\_slot5"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT6](#) = "devEncounterDuration\_slot6"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT7](#) = "devEncounterDuration\_slot7"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT8](#) = "devEncounterDuration\_slot8"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT9](#) = "devEncounterDuration\_slot9"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT10](#) = "devEncounterDuration\_slot10"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT11](#) = "devEncounterDuration\_slot11"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT12](#) = "devEncounterDuration\_slot12"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT13](#) = "devEncounterDuration\_slot13"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT14](#) = "devEncounterDuration\_slot14"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT15](#) = "devEncounterDuration\_slot15"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT16](#) = "devEncounterDuration\_slot16"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT17](#) = "devEncounterDuration\_slot17"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT18](#) = "devEncounterDuration\_slot18"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT19](#) = "devEncounterDuration\_slot19"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT20](#) = "devEncounterDuration\_slot20"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT21](#) = "devEncounterDuration\_slot21"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT22](#) = "devEncounterDuration\_slot22"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT23](#) = "devEncounterDuration\_slot23"
- static final String [COLUMN\\_BTDEV\\_ENCOUNTERDURATION\\_SLOT24](#) = "devEncounterDuration\_slot24"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT1](#) = "devAvgEncounterDuration↵\_slot1"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT2](#) = "devAvgEncounterDuration↵\_slot2"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT3](#) = "devAvgEncounterDuration↵\_slot3"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT4](#) = "devAvgEncounterDuration↵\_slot4"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT5](#) = "devAvgEncounterDuration↵\_slot5"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT6](#) = "devAvgEncounterDuration↵\_slot6"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT7](#) = "devAvgEncounterDuration↵\_slot7"

- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT8](#) = "devAvgEncounterDuration↔\_slot8"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT9](#) = "devAvgEncounterDuration↔\_slot9"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT10](#) = "devAvgEncounter↔Duration\_slot10"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT11](#) = "devAvgEncounter↔Duration\_slot11"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT12](#) = "devAvgEncounter↔Duration\_slot12"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT13](#) = "devAvgEncounter↔Duration\_slot13"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT14](#) = "devAvgEncounter↔Duration\_slot14"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT15](#) = "devAvgEncounter↔Duration\_slot15"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT16](#) = "devAvgEncounter↔Duration\_slot16"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT17](#) = "devAvgEncounter↔Duration\_slot17"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT18](#) = "devAvgEncounter↔Duration\_slot18"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT19](#) = "devAvgEncounter↔Duration\_slot19"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT20](#) = "devAvgEncounter↔Duration\_slot20"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT21](#) = "devAvgEncounter↔Duration\_slot21"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT22](#) = "devAvgEncounter↔Duration\_slot22"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT23](#) = "devAvgEncounter↔Duration\_slot23"
- static final String [COLUMN\\_BTDEV\\_AVGENCOUNTERDURATION\\_SLOT24](#) = "devAvgEncounter↔Duration\_slot24"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT1](#) = "devSocialWeight\_slot1"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT2](#) = "devSocialWeight\_slot2"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT3](#) = "devSocialWeight\_slot3"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT4](#) = "devSocialWeight\_slot4"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT5](#) = "devSocialWeight\_slot5"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT6](#) = "devSocialWeight\_slot6"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT7](#) = "devSocialWeight\_slot7"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT8](#) = "devSocialWeight\_slot8"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT9](#) = "devSocialWeight\_slot9"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT10](#) = "devSocialWeight\_slot10"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT11](#) = "devSocialWeight\_slot11"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT12](#) = "devSocialWeight\_slot12"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT13](#) = "devSocialWeight\_slot13"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT14](#) = "devSocialWeight\_slot14"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT15](#) = "devSocialWeight\_slot15"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT16](#) = "devSocialWeight\_slot16"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT17](#) = "devSocialWeight\_slot17"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT18](#) = "devSocialWeight\_slot18"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT19](#) = "devSocialWeight\_slot19"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT20](#) = "devSocialWeight\_slot20"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT21](#) = "devSocialWeight\_slot21"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT22](#) = "devSocialWeight\_slot22"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT23](#) = "devSocialWeight\_slot23"
- static final String [COLUMN\\_BTDEV\\_SOCIALWEIGHT\\_SLOT24](#) = "devSocialWeight\_slot24"

## Static Private Attributes

- static final String [DATABASE\\_NAME](#) = "database"
- static final int [DATABASE\\_VERSION](#) = 2
- static final String [CREATE\\_BTDEVICE\\_TABLE](#)
- static final String [CREATE\\_BTDEVICEENCOUNTERDURATION\\_TABLE](#)
- static final String [CREATE\\_BTDEVICEAVERAGEENCOUNTERDURATION\\_TABLE](#)
- static final String [CREATE\\_BTDEVICESOCIALWEIGHT\\_TABLE](#)

### 6.18.1 Detailed Description

This class defines the tables and their attributes used for social weight computation.

### 6.18.2 Constructor & Destructor Documentation

#### 6.18.2.1 `com.copelabs.socio.socialproximity.SQLiteHelper.SQLiteHelper ( Context context )`

This method is the constructor for [SQLiteHelper](#).

Parameters

<i>context</i>	The context.
----------------	--------------

### 6.18.3 Member Function Documentation

#### 6.18.3.1 `void com.copelabs.socio.socialproximity.SQLiteHelper.onCreate ( SQLiteDatabase dataBase )`

#### 6.18.3.2 `void com.copelabs.socio.socialproximity.SQLiteHelper.onUpgrade ( SQLiteDatabase dataBase, int oldVersion, int newVersion )`

### 6.18.4 Member Data Documentation

#### 6.18.4.1 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT1 = "devAvgEncounterDuration_slot1" [static]`

#### 6.18.4.2 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT10 = "devAvgEncounterDuration_slot10" [static]`

#### 6.18.4.3 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT11 = "devAvgEncounterDuration_slot11" [static]`

#### 6.18.4.4 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT12 = "devAvgEncounterDuration_slot12" [static]`

#### 6.18.4.5 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT13 = "devAvgEncounterDuration_slot13" [static]`

#### 6.18.4.6 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT14 = "devAvgEncounterDuration_slot14" [static]`

#### 6.18.4.7 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT15 = "devAvgEncounterDuration_slot15" [static]`

#### 6.18.4.8 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT16 = "devAvgEncounterDuration_slot16" [static]`



- 6.18.4.9    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT17 = "devAvgEncounterDuration\_slot17"    [static]
- 6.18.4.10    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT18 = "devAvgEncounterDuration\_slot18"    [static]
- 6.18.4.11    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT19 = "devAvgEncounterDuration\_slot19"    [static]
- 6.18.4.12    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT2 = "devAvgEncounterDuration\_slot2"    [static]
- 6.18.4.13    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT20 = "devAvgEncounterDuration\_slot20"    [static]
- 6.18.4.14    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT21 = "devAvgEncounterDuration\_slot21"    [static]
- 6.18.4.15    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT22 = "devAvgEncounterDuration\_slot22"    [static]
- 6.18.4.16    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT23 = "devAvgEncounterDuration\_slot23"    [static]
- 6.18.4.17    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT24 = "devAvgEncounterDuration\_slot24"    [static]
- 6.18.4.18    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT3 = "devAvgEncounterDuration\_slot3"    [static]
- 6.18.4.19    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT4 = "devAvgEncounterDuration\_slot4"    [static]
- 6.18.4.20    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT5 = "devAvgEncounterDuration\_slot5"    [static]
- 6.18.4.21    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT6 = "devAvgEncounterDuration\_slot6"    [static]
- 6.18.4.22    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT7 = "devAvgEncounterDuration\_slot7"    [static]
- 6.18.4.23    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT8 = "devAvgEncounterDuration\_slot8"    [static]
- 6.18.4.24    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_AVGENCOUNTERDURATION\_SLOT9 = "devAvgEncounterDuration\_slot9"    [static]
- 6.18.4.25    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_ENCOUNTERDURATION\_SLOT1 = "devEncounterDuration\_slot1"    [static]
- 6.18.4.26    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_ENCOUNTERDURATION\_SLOT10 = "devEncounterDuration\_slot10"    [static]
- 6.18.4.27    final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_ENCOUNTERDURATION\_SLOT11 = "devEncounterDuration\_slot11"    [static]

- 6.18.4.28 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT12 = "devEncounterDuration_slot12" [static]`
- 6.18.4.29 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT13 = "devEncounterDuration_slot13" [static]`
- 6.18.4.30 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT14 = "devEncounterDuration_slot14" [static]`
- 6.18.4.31 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT15 = "devEncounterDuration_slot15" [static]`
- 6.18.4.32 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT16 = "devEncounterDuration_slot16" [static]`
- 6.18.4.33 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT17 = "devEncounterDuration_slot17" [static]`
- 6.18.4.34 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT18 = "devEncounterDuration_slot18" [static]`
- 6.18.4.35 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT19 = "devEncounterDuration_slot19" [static]`
- 6.18.4.36 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT2 = "devEncounterDuration_slot2" [static]`
- 6.18.4.37 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT20 = "devEncounterDuration_slot20" [static]`
- 6.18.4.38 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT21 = "devEncounterDuration_slot21" [static]`
- 6.18.4.39 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT22 = "devEncounterDuration_slot22" [static]`
- 6.18.4.40 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT23 = "devEncounterDuration_slot23" [static]`
- 6.18.4.41 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT24 = "devEncounterDuration_slot24" [static]`
- 6.18.4.42 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT3 = "devEncounterDuration_slot3" [static]`
- 6.18.4.43 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT4 = "devEncounterDuration_slot4" [static]`
- 6.18.4.44 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT5 = "devEncounterDuration_slot5" [static]`
- 6.18.4.45 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT6 = "devEncounterDuration_slot6" [static]`
- 6.18.4.46 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT7 = "devEncounterDuration_slot7" [static]`

- 6.18.4.47 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_ENCOUNTERDURATION\_SLOT8 = "devEncounterDuration\_slot8" [static]
- 6.18.4.48 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_ENCOUNTERDURATION\_SLOT9 = "devEncounterDuration\_slot9" [static]
- 6.18.4.49 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_ENCOUNTERSTART = "devEncounterStart" [static]
- 6.18.4.50 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_MAC\_ADDRESS = "devBtMacAdd" [static]
- 6.18.4.51 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_NAME = "devName" [static]
- 6.18.4.52 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT1 = "devSocialWeight\_slot1" [static]
- 6.18.4.53 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT10 = "devSocialWeight\_slot10" [static]
- 6.18.4.54 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT11 = "devSocialWeight\_slot11" [static]
- 6.18.4.55 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT12 = "devSocialWeight\_slot12" [static]
- 6.18.4.56 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT13 = "devSocialWeight\_slot13" [static]
- 6.18.4.57 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT14 = "devSocialWeight\_slot14" [static]
- 6.18.4.58 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT15 = "devSocialWeight\_slot15" [static]
- 6.18.4.59 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT16 = "devSocialWeight\_slot16" [static]
- 6.18.4.60 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT17 = "devSocialWeight\_slot17" [static]
- 6.18.4.61 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT18 = "devSocialWeight\_slot18" [static]
- 6.18.4.62 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT19 = "devSocialWeight\_slot19" [static]
- 6.18.4.63 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT2 = "devSocialWeight\_slot2" [static]
- 6.18.4.64 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT20 = "devSocialWeight\_slot20" [static]
- 6.18.4.65 final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN\_BTDEV\_SOCIALWEIGHT\_SLOT21 = "devSocialWeight\_slot21" [static]

- 6.18.4.66 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT22 = "devSocialWeight_slot22" [static]`
- 6.18.4.67 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT23 = "devSocialWeight_slot23" [static]`
- 6.18.4.68 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT24 = "devSocialWeight_slot24" [static]`
- 6.18.4.69 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT3 = "devSocialWeight_slot3" [static]`
- 6.18.4.70 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT4 = "devSocialWeight_slot4" [static]`
- 6.18.4.71 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT5 = "devSocialWeight_slot5" [static]`
- 6.18.4.72 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT6 = "devSocialWeight_slot6" [static]`
- 6.18.4.73 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT7 = "devSocialWeight_slot7" [static]`
- 6.18.4.74 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT8 = "devSocialWeight_slot8" [static]`
- 6.18.4.75 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT9 = "devSocialWeight_slot9" [static]`
- 6.18.4.76 `final String com.copelabs.socio.socialproximity.SQLiteHelper.COLUMN_ID = "_id" [static]`
- 6.18.4.77 `final String com.copelabs.socio.socialproximity.SQLiteHelper.CREATE_BTDEVICE_TABLE [static], [private]`

**Initial value:**

```
= "create table "
    + TABLE_BTDEVICE + "("
    + COLUMN_ID + " integer primary key autoincrement, "
    + COLUMN_BTDEV_MAC_ADDRESS + " text not null unique, "
    + COLUMN_BTDEV_NAME + " text not null, "
    + COLUMN_BTDEV_ENCOUNTERSTART + " long not null"
    + ");"
```

- 6.18.4.78 `final String com.copelabs.socio.socialproximity.SQLiteHelper.CREATE_BTDEVICEAVERAGEENCOUNTERDURATION_TABLE [static], [private]`

**Initial value:**

```
= "create table "
    + TABLE_BTDEVICEAVERAGEENCOUNTERDURATION + "("
    + COLUMN_ID + " integer primary key autoincrement, "
    + COLUMN_BTDEV_MAC_ADDRESS + " text not null unique, "
    + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT1 + " double
not null, "
    + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT2 + " double
not null, "
    + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT3 + " double
not null, "
    + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT4 + " double
not null, "
```

```

        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT5 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT6 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT7 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT8 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT9 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT10 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT11 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT12 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT13 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT14 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT15 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT16 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT17 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT18 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT19 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT20 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT21 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT22 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT23 + " double
not null, "
        + COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT24 + " double
not null"
        + ");";

```

#### 6.18.4.79 final String com.copelabs.socio.socialproximity.SQLiteHelper.CREATE\_BTDEVICEENCOUNTERDURATION\_TABLE [static],[private]

**Initial value:**

```

= "create table "
    + TABLE_BTDEVICEENCOUNTERDURATION + "("
    + COLUMN_ID + " integer primary key autoincrement, "
    + COLUMN_BTDEV_MAC_ADDRESS + " text not null unique, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT1 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT2 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT3 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT4 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT5 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT6 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT7 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT8 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT9 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT10 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT11 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT12 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT13 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT14 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT15 + " double not
null, "
    + COLUMN_BTDEV_ENCOUNTERDURATION_SLOT16 + " double not

```

```

null, "
+ COLUMN_BTDEV_ENCOUNTERDURATION_SLOT17 + " double not
null, "
+ COLUMN_BTDEV_ENCOUNTERDURATION_SLOT18 + " double not
null, "
+ COLUMN_BTDEV_ENCOUNTERDURATION_SLOT19 + " double not
null, "
+ COLUMN_BTDEV_ENCOUNTERDURATION_SLOT20 + " double not
null, "
+ COLUMN_BTDEV_ENCOUNTERDURATION_SLOT21 + " double not
null, "
+ COLUMN_BTDEV_ENCOUNTERDURATION_SLOT22 + " double not
null, "
+ COLUMN_BTDEV_ENCOUNTERDURATION_SLOT23 + " double not
null, "
+ COLUMN_BTDEV_ENCOUNTERDURATION_SLOT24 + " double not
null"
+ ");"

```

**6.18.4.80** final String com.copelabs.socio.socialproximity.SQLiteHelper.CREATE\_BTDEVICESOCIALWEIGHT\_TABLE  
[static],[private]

**Initial value:**

```

= "create table "
+ TABLE_BTDEVICESOCIALWEIGHT + "("
+ COLUMN_ID + " integer primary key autoincrement, "
+ COLUMN_BTDEV_MAC_ADDRESS + " text not null unique, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT1 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT2 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT3 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT4 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT5 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT6 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT7 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT8 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT9 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT10 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT11 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT12 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT13 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT14 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT15 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT16 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT17 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT18 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT19 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT20 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT21 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT22 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT23 + " double not null, "
+ COLUMN_BTDEV_SOCIALWEIGHT_SLOT24 + " double not null"
+ ");"

```

**6.18.4.81** final String com.copelabs.socio.socialproximity.SQLiteHelper.DATABASE\_NAME = "database" [static],  
[private]

**6.18.4.82** final int com.copelabs.socio.socialproximity.SQLiteHelper.DATABASE\_VERSION = 2 [static],[private]

**6.18.4.83** final String com.copelabs.socio.socialproximity.SQLiteHelper.TABLE\_BTDEVICE = "btdevices" [static]

**6.18.4.84** final String com.copelabs.socio.socialproximity.SQLiteHelper.TABLE\_BTDEVICEAVERAGEENCOUNTERDURATION =  
"btdevice\_averageencounterduration" [static]

**6.18.4.85** final String com.copelabs.socio.socialproximity.SQLiteHelper.TABLE\_BTDEVICEENCOUNTERDURATION =  
"btdevice\_encounterduration" [static]

**6.18.4.86** final String com.copelabs.socio.socialproximity.SQLiteHelper.TABLE\_BTDEVICESOCIALWEIGHT =  
"btdevice\_socialweight" [static]

The documentation for this class was generated from the following file:

- [src/com/copelabs/socio/socialproximity/SQLiteHelper.java](#)

## 6.19 com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration Class Reference

### Public Member Functions

- String [getDevAdd](#) ()
- double [getAverageEncounterDuration](#) (int timeSlot)
- void [setDevAdd](#) (String DevAdd)
- void [setAverageEncounterDuration](#) (int timeSlot, double avgEncounterDuration)
- [UserDevAverageEncounterDuration](#) ()

### Private Attributes

- String [deviceAdd](#)
- double[] [averageEncounterDuration](#) = new double [24]

#### 6.19.1 Detailed Description

This class holds the average duration of encounter between a peer and the user device in specific time slots.

#### 6.19.2 Constructor & Destructor Documentation

##### 6.19.2.1 com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration.UserDevAverageEncounterDuration ( )

BT User Device Average Encounter Duration Constructor

#### 6.19.3 Member Function Documentation

##### 6.19.3.1 double com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration.getAverageEncounterDuration ( int timeSlot )

This method gets the average encounter duration that the BT device is within communication range.

##### Parameters

<i>timeSlot</i>	The specific time slot.
-----------------	-------------------------

##### Returns

The average encounter duration in the given slot.

##### 6.19.3.2 String com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration.getDevAdd ( )

This method gets the MAC address of this Bluetooth device.

##### Returns

deviceAdd The device address to be used as key.

6.19.3.3 void com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration.setAverageEncounterDuration ( int *timeSlot*, double *avgEncounterDuration* )

This method sets the average duration that the BT device is within communication range.



## Parameters

<i>timeSlot</i>	The specific time slot.
<i>avgEncounterDuration</i>	The average duration of encounter.

6.19.3.4 void com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration.setDevAdd ( String *DevAdd* )

This method sets the ID of this Bluetooth device.

## Parameters

<i>DevAdd</i>	The MAC address of device to set.
---------------	-----------------------------------

## 6.19.4 Member Data Documentation

6.19.4.1 double [] com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration.averageEncounterDuration = new double [24] [private]

6.19.4.2 String com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration.deviceAdd [private]

The documentation for this class was generated from the following file:

- src/com/copelabs/socio/socialproximity/[UserDevAverageEncounterDuration.java](#)

## 6.20 com.copelabs.socio.socialproximity.UserDevEncounterDuration Class Reference

## Public Member Functions

- String [getDevAdd](#) ()
- double [getEncounterDuration](#) (int timeSlot)
- void [setDevAdd](#) (String DevAdd)
- void [setEncounterDuration](#) (int timeSlot, double encounterDuration)
- [UserDevEncounterDuration](#) ()

## Private Attributes

- String [deviceAdd](#)
- double[] [encounterDuration](#) = new double [24]

## 6.20.1 Detailed Description

This class holds the encounter duration between a peer and the user device in specific time slots.

## 6.20.2 Constructor &amp; Destructor Documentation

6.20.2.1 com.copelabs.socio.socialproximity.UserDevEncounterDuration.UserDevEncounterDuration ( )

BT User Device Encounter Duration Constructor

### 6.20.3 Member Function Documentation

#### 6.20.3.1 String com.copelabs.socio.socialproximity.UserDevEncounterDuration.getDevAdd ( )

This method gets the MAC address of this Bluetooth device.

##### Returns

deviceAdd The device address to be used as key.

#### 6.20.3.2 double com.copelabs.socio.socialproximity.UserDevEncounterDuration.getEncounterDuration ( int *timeSlot* )

This method gets the duration that the BT device is within communication range.

##### Parameters

<i>timeSlot</i>	The specific time slot.
-----------------	-------------------------

##### Returns

The encounter duration in the given slot.

#### 6.20.3.3 void com.copelabs.socio.socialproximity.UserDevEncounterDuration.setDevAdd ( String *DevAdd* )

This method sets the ID of this Bluetooth device.

##### Parameters

<i>DevAdd</i>	The MAC address of device to set.
---------------	-----------------------------------

#### 6.20.3.4 void com.copelabs.socio.socialproximity.UserDevEncounterDuration.setEncounterDuration ( int *timeSlot*, double *encounterDuration* )

This method sets the duration that the BT device is within communication range.

##### Parameters

<i>timeSlot</i>	The specific time slot.
<i>encounterDuration</i>	The duration of encounter.

### 6.20.4 Member Data Documentation

#### 6.20.4.1 String com.copelabs.socio.socialproximity.UserDevEncounterDuration.deviceAdd [private]

#### 6.20.4.2 double [ ] com.copelabs.socio.socialproximity.UserDevEncounterDuration.encounterDuration = new double [24] [private]

The documentation for this class was generated from the following file:

- src/com/copelabs/socio/socialproximity/[UserDevEncounterDuration.java](#)

## 6.21 com.copelabs.socio.socialproximity.UserDeviceInfo Class Reference

### Public Member Functions

- String [getDevAdd](#) ()
- String [getDevName](#) ()
- long [getEncounterStart](#) ()
- void [setDevAdd](#) (String DevAdd)
- void [setDevName](#) (String DevName)
- void [setEncounterTime](#) (long time)
- [UserDeviceInfo](#) ()

### Private Attributes

- String [deviceAdd](#)
- String [deviceName](#)
- long [encounterTime](#)

#### 6.21.1 Detailed Description

This class represents a user device found by means of Bluetooth.

#### 6.21.2 Constructor & Destructor Documentation

##### 6.21.2.1 com.copelabs.socio.socialproximity.UserDeviceInfo.UserDeviceInfo ( )

Bluetooth User Device Constructor

#### 6.21.3 Member Function Documentation

##### 6.21.3.1 String com.copelabs.socio.socialproximity.UserDeviceInfo.getDevAdd ( )

This method gets the MAC address of this Bluetooth device.

##### Returns

deviceAdd The device address.

##### 6.21.3.2 String com.copelabs.socio.socialproximity.UserDeviceInfo.getDevName ( )

This method gets the name of this Bluetooth device.

##### Returns

deviceName The device name.

##### 6.21.3.3 long com.copelabs.socio.socialproximity.UserDeviceInfo.getEncounterStart ( )

This method gets the time that the BT device is first found.

##### Returns

The encounter time.

6.21.3.4 void com.copelabs.socio.socialproximity.UserDeviceInfo.setDevAdd ( String *DevAdd* )

This method sets the ID of this Bluetooth device.

## Parameters

<i>DevAdd</i>	The MAC address of device to set.
---------------	-----------------------------------

6.21.3.5 void com.copelabs.socio.socialproximity.UserDeviceInfo.setDevName ( String *DevName* )

This method sets the name of this Bluetooth device.

## Parameters

<i>DevName</i>	The name of device to set.
----------------	----------------------------

6.21.3.6 void com.copelabs.socio.socialproximity.UserDeviceInfo.setEncounterTime ( long *time* )

This method sets the time that the BT device is first found.

## Parameters

<i>time</i>	The time.
-------------	-----------

## 6.21.4 Member Data Documentation

6.21.4.1 String com.copelabs.socio.socialproximity.UserDeviceInfo.deviceAdd [private]

6.21.4.2 String com.copelabs.socio.socialproximity.UserDeviceInfo.deviceName [private]

6.21.4.3 long com.copelabs.socio.socialproximity.UserDeviceInfo.encounterTime [private]

The documentation for this class was generated from the following file:

- src/com/copelabs/socio/socialproximity/[UserDeviceInfo.java](#)

## 6.22 com.copelabs.socio.socialproximity.UserDevSocialWeight Class Reference

## Public Member Functions

- String [getDevAdd](#) ()
- double [getSocialWeight](#) (int timeSlot)
- void [setDevAdd](#) (String DevAdd)
- void [setSocialWeight](#) (int timeSlot, double [socialWeight](#))
- [UserDevSocialWeight](#) ()

## Private Attributes

- String [deviceAdd](#)
- double[] [socialWeight](#) = new double [24]

## 6.22.1 Detailed Description

This class holds the social weight between a peer and the user device in specific time slots.

## 6.22.2 Constructor & Destructor Documentation

### 6.22.2.1 `com.copelabs.socio.socialproximity.UserDevSocialWeight.UserDevSocialWeight ( )`

BT User Device Social Weight Constructor

## 6.22.3 Member Function Documentation

### 6.22.3.1 `String com.copelabs.socio.socialproximity.UserDevSocialWeight.getDevAdd ( )`

This method gets the MAC address of this Bluetooth device.

Returns

`deviceAdd` The device address to be used as key.

### 6.22.3.2 `double com.copelabs.socio.socialproximity.UserDevSocialWeight.getSocialWeight ( int timeSlot )`

This method gets the social weight towards a BT device.

Parameters

<i>timeSlot</i>	The specific time slot.
-----------------	-------------------------

Returns

The social weight in the given slot.

### 6.22.3.3 `void com.copelabs.socio.socialproximity.UserDevSocialWeight.setDevAdd ( String DevAdd )`

This method sets the ID of this Bluetooth device.

Parameters

<i>DevAdd</i>	The MAC address of device to set.
---------------	-----------------------------------

### 6.22.3.4 `void com.copelabs.socio.socialproximity.UserDevSocialWeight.setSocialWeight ( int timeSlot, double socialWeight )`

This method sets the social weight towards a BT device.

Parameters

<i>timeSlot</i>	The specific time slot.
<i>socialWeight</i>	The social weight.

## 6.22.4 Member Data Documentation

### 6.22.4.1 `String com.copelabs.socio.socialproximity.UserDevSocialWeight.deviceAdd` `[private]`

### 6.22.4.2 `double [] com.copelabs.socio.socialproximity.UserDevSocialWeight.socialWeight = new double [24]` `[private]`

The documentation for this class was generated from the following file:

- `src/com/copelabs/socio/socialproximity/UserDevSocialWeight.java`

## 6.23 com.copelabs.socio.wifi.WiFiDirect Class Reference

### Public Member Functions

- [WiFiDirect](#) (Context mContext)
- void [start](#) (String mMAC, Map< String, String > mListOfSocialWeight)
- void [stop](#) ()
- void [setWiFiDirectListener](#) ([WiFiDirectListener](#) listener)
- String [getWiFiDirectMacAdress](#) ()
- String [getWiFiMacAddress](#) ()
- boolean [sendPackets](#) ([WiFiDirectDevice](#) mDevice, ArrayList< [Packet](#) > mPackets)
- void [updateAnnounce](#) (String mMAC, Map< String, String > mListOfSocialWeight)
- void [resetAvailableDevices](#) ()

### Public Attributes

- ArrayList< [WiFiDirectListener](#) > [listeners](#) = new ArrayList<[WiFiDirectListener](#)> ()

### Static Public Attributes

- static final String [TAG](#) = "wifidirect"

### Private Attributes

- [WiFiDirectUtils](#) mWiFiDirectUtils

#### 6.23.1 Constructor & Destructor Documentation

##### 6.23.1.1 com.copelabs.socio.wifi.WiFiDirect.WiFiDirect ( Context mContext )

[WiFiDirect](#) constructor

Parameters

<i>mContext</i>	Interface to global information about an application environment.
-----------------	---

#### 6.23.2 Member Function Documentation

##### 6.23.2.1 String com.copelabs.socio.wifi.WiFiDirect.getWiFiDirectMacAdress ( )

Get the MAC address of WiFi P2P interface. Only returns a MAC address if this device is a group owner.

Returns

WiFi P2P interface MAC address

##### 6.23.2.2 String com.copelabs.socio.wifi.WiFiDirect.getWiFiMacAddress ( )

Get the MAC address of WiFi interface.

Returns

WiFi MAC address

### 6.23.2.3 void com.copelabs.socio.wifi.WiFiDirect.resetAvailableDevices ( )

Restarts WiFi Direct.

### 6.23.2.4 boolean com.copelabs.socio.wifi.WiFiDirect.sendPackets ( WiFiDirectDevice mDevice, ArrayList< Packet > mPackets )

Used by the above modules to send a packet through WiFi P2P.

#### Parameters

<i>mDevice</i>	Destination device
<i>mPackets</i>	List of Packets to send

#### Returns

Always true.

### 6.23.2.5 void com.copelabs.socio.wifi.WiFiDirect.setWiFiDirectListener ( WiFiDirectListener listener )

Listener that WiFi package will use to inform register packages about a new packet received or when new devices were found. Check class [WiFiDirectListener](#) to see the available outputs.

#### Parameters

<i>listener</i>	listener to register
-----------------	----------------------

### 6.23.2.6 void com.copelabs.socio.wifi.WiFiDirect.start ( String mMAC, Map< String, String > mListOfSocialWeight )

It starts the WiFi Direct module. This function starts the list of social weight announce.

#### Parameters

<i>mMAC</i>	Local BT MAC address
<i>mListOfSocialWeight</i>	List of known devices and their social weights.

### 6.23.2.7 void com.copelabs.socio.wifi.WiFiDirect.stop ( )

It stops the [WiFiDirect](#) module, including the announce of the social weights.

### 6.23.2.8 void com.copelabs.socio.wifi.WiFiDirect.updateAnnounce ( String mMAC, Map< String, String > mListOfSocialWeight )

To update the info announced by the WiFi P2P (Bonjour service)

#### Parameters

<i>mMAC</i>	- Local MAC Address
<i>mListOfSocialWeight</i>	- List of known contacts and their social weights



### 6.23.3 Member Data Documentation

6.23.3.1 `ArrayList<WiFiDirectListener> com.copelabs.socio.wifi.WiFiDirect.listeners = new ArrayList<WiFiDirectListener> ()`

List of listener that receive info from this module.

6.23.3.2 `WiFiDirectUtils com.copelabs.socio.wifi.WiFiDirect.mWiFiDirectUtils [private]`

WiFi Direct core functions

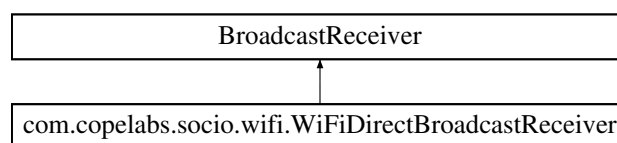
6.23.3.3 `final String com.copelabs.socio.wifi.WiFiDirect.TAG = "wifidirect" [static]`

The documentation for this class was generated from the following file:

- [src/com/copelabs/socio/wifi/WiFiDirect.java](#)

## 6.24 com.copelabs.socio.wifi.WiFiDirectBroadcastReceiver Class Reference

Inheritance diagram for com.copelabs.socio.wifi.WiFiDirectBroadcastReceiver:



### Public Member Functions

- [WiFiDirectBroadcastReceiver](#) (WifiP2pManager [manager](#), Channel [channel](#), [WiFiDirectUtils mWiFiDirectUtils](#))
- void [onReceive](#) (Context context, Intent intent)

### Private Attributes

- WifiP2pManager [manager](#)
- Channel [channel](#)
- [WiFiDirectUtils mWiFiDirectUtils](#)

### 6.24.1 Constructor & Destructor Documentation

6.24.1.1 `com.copelabs.socio.wifi.WiFiDirectBroadcastReceiver.WiFiDirectBroadcastReceiver ( WifiP2pManager manager, Channel channel, WiFiDirectUtils mWiFiDirectUtils )`

[WiFiDirectBroadcastReceiver](#) constructor.

Parameters

<i>manager</i>	WifiP2pManager system service
<i>channel</i>	WiFi p2p channel
<i>mWiFiDirectUtils</i>	mWiFiDirectUtils class

## 6.24.2 Member Function Documentation

6.24.2.1 void `com.copelabs.socio.wifi.WiFiDirectBroadcastReceiver.onReceive ( Context context, Intent intent )`

## 6.24.3 Member Data Documentation

6.24.3.1 Channel `com.copelabs.socio.wifi.WiFiDirectBroadcastReceiver.channel` `[private]`

A channel that connects the application to the Wifi p2p framework.

6.24.3.2 `WifiP2pManager` `com.copelabs.socio.wifi.WiFiDirectBroadcastReceiver.manager` `[private]`

This class provides the API for managing Wi-Fi peer-to-peer connectivity.

6.24.3.3 `WiFiDirectUtils` `com.copelabs.socio.wifi.WiFiDirectBroadcastReceiver.mWiFiDirectUtils` `[private]`

Callback to the [WiFiDirectUtils](#) class.

The documentation for this class was generated from the following file:

- `src/com/copelabs/socio/wifi/WiFiDirectBroadcastReceiver.java`

## 6.25 com.copelabs.socio.wifi.WiFiDirectDevice Class Reference

### Public Member Functions

- [WiFiDirectDevice](#) ()
- void [setDevice](#) ([WifiP2pDevice](#) `device`)
- void [setInstanceName](#) (String `instanceName`)
- void [setServiceRegistrationType](#) (String `serviceRegistrationType`)
- void [setLastTimeSeen](#) (long `mTime`)
- [WifiP2pDevice](#) [getDevice](#) ()
- String [getInstanceName](#) ()
- String [getServiceRegistrationType](#) ()
- long [getLastTimeSeen](#) ()

### Private Attributes

- [WifiP2pDevice](#) `device`
- String `instanceName` = null
- String `serviceRegistrationType` = null
- long `TTL`

### 6.25.1 Detailed Description

A structure to hold service information.

## 6.25.2 Constructor & Destructor Documentation

6.25.2.1 `com.copelabs.socio.wifi.WiFiDirectDevice.WiFiDirectDevice ( )`

## 6.25.3 Member Function Documentation

6.25.3.1 `WifiP2pDevice com.copelabs.socio.wifi.WiFiDirectDevice.getDevice ( )`

6.25.3.2 `String com.copelabs.socio.wifi.WiFiDirectDevice.getInstanceName ( )`

6.25.3.3 `long com.copelabs.socio.wifi.WiFiDirectDevice.getLastTimeSeen ( )`

6.25.3.4 `String com.copelabs.socio.wifi.WiFiDirectDevice.getServiceRegistrationType ( )`

6.25.3.5 `void com.copelabs.socio.wifi.WiFiDirectDevice.setDevice ( WifiP2pDevice device )`

6.25.3.6 `void com.copelabs.socio.wifi.WiFiDirectDevice.setInstanceName ( String instanceName )`

6.25.3.7 `void com.copelabs.socio.wifi.WiFiDirectDevice.setLastTimeSeen ( long mTime )`

6.25.3.8 `void com.copelabs.socio.wifi.WiFiDirectDevice.setServiceRegistrationType ( String serviceRegistrationType )`

## 6.25.4 Member Data Documentation

6.25.4.1 `WifiP2pDevice com.copelabs.socio.wifi.WiFiDirectDevice.device [private]`

6.25.4.2 `String com.copelabs.socio.wifi.WiFiDirectDevice.instanceName = null [private]`

6.25.4.3 `String com.copelabs.socio.wifi.WiFiDirectDevice.serviceRegistrationType = null [private]`

6.25.4.4 `long com.copelabs.socio.wifi.WiFiDirectDevice.TTL [private]`

The documentation for this class was generated from the following file:

- [src/com/copelabs/socio/wifi/WiFiDirectDevice.java](#)

## 6.26 com.copelabs.socio.wifi.WiFiDirectListener Interface Reference

### Public Member Functions

- void [onPacketReceived](#) (List< [Packet](#) > mListOfPackets)
- void [onNewWiFiDirectDeviceFound](#) ([WiFiDirectDevice](#) mDevice, Map< String, String > mListOfSocial↵  
Weight)
- void [onWiFiDirectDeviceDisappear](#) ([WiFiDirectDevice](#) mDevice)
- void [error](#) (int mError)

### 6.26.1 Member Function Documentation

6.26.1.1 `void com.copelabs.socio.wifi.WiFiDirectListener.error ( int mError )`

6.26.1.2 `void com.copelabs.socio.wifi.WiFiDirectListener.onNewWiFiDirectDeviceFound ( WiFiDirectDevice mDevice,  
Map< String, String > mListOfSocialWeight )`

6.26.1.3 void com.copelabs.socio.wifi.WiFiDirectListener.onPacketReceived ( List< Packet > mListOfPackets )

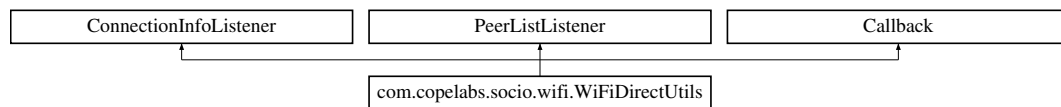
6.26.1.4 void com.copelabs.socio.wifi.WiFiDirectListener.onWiFiDirectDeviceDisappear ( WiFiDirectDevice mDevice )

The documentation for this interface was generated from the following file:

- src/com/copelabs/socio/wifi/[WiFiDirectListener.java](#)

## 6.27 com.copelabs.socio.wifi.WiFiDirectUtils Class Reference

Inheritance diagram for com.copelabs.socio.wifi.WiFiDirectUtils:



### Public Member Functions

- [WiFiDirectUtils](#) (Context mContext, [WiFiDirect](#) mCallback)
- Handler [getHandler](#) ()
- void [setHandler](#) (Handler handler)
- void [setIsWifiP2pEnabled](#) (boolean isWifiP2pEnabled)
- boolean [getIsWifiP2pEnabled](#) ()
- String [getWFDirectMacAddress](#) ()
- String [getWiFiMacAddress](#) ()
- void [start](#) (final String mMAC, final Map< String, String > mListOfSocialWeight)
- void [stop](#) ()
- void [wifiWasEnabled](#) ()
- void [wifiDisabled](#) ()
- void [restartDiscovery](#) ()
- void [updateRegistration](#) (final String mMAC, final Map< String, String > mListOfSocialWeight)
- void [discoverService](#) ()
- void [onPeersAvailable](#) ([WifiP2pDeviceList](#) peers)
- boolean [makeConnection](#) ([WiFiDirectDevice](#) mDevice, ArrayList< [Packet](#) > mPackets)
- void [onConnectionInfoAvailable](#) ([WifiP2pInfo](#) p2pInfo)
- void [dealWithConnectionEnded](#) (boolean failed)
- void [startTimer](#) (String mDeviceMAC)
- void [stopTimer](#) ()
- void [initializeTimerTask](#) (final String mDeviceMAC)
- boolean [handleMessage](#) (Message msg)

### Public Attributes

- int [WiFiStatus](#) = [WIFI\\_IDLE](#)
- ArrayList< [WiFiDirectDevice](#) > [mAvailableDevices](#) = new ArrayList<[WiFiDirectDevice](#)>()
- String [mThisDeviceMACP2p](#)

## Static Public Attributes

- static final String [SERVICE\\_INSTANCE](#) = "\_oiframework"
- static final String [SERVICE\\_REG\\_TYPE](#) = "\_presence.\_tcp"
- static final String [KEY\\_MAC](#) = "key\_mac"
- static final int [WIFI\\_IDLE](#) = 0
- static final int [WIFI\\_CONNECTING](#) = 1
- static final int [WIFI\\_CONNECTED](#) = 2
- static final int [WIFI\\_DISCONNECTED](#) = 3
- static final int [MESSAGE\\_READ](#) = 0x400 + 1
- static final int [SOCKETERROR](#) = 0x400 + 2
- static final int [EMPTY](#) = 0x400 + 3

## Private Member Functions

- void [startRegistrationAndDiscovery](#) (String mMAC, Map< String, String > mListOfSocialWeight)
- void [registration](#) (String mMAC, Map< String, String > mListOfSocialWeight)
- void [checkNextPacketQueue](#) (String mDeviceMAC)
- void [connectP2p](#) (final String mDeviceMAC)
- void [disconnectP2p](#) ()
- void [notifyPacketReceived](#) (List< [Packet](#) > mListOfPackets)
- void [notifyOnNewWiFiDirectDeviceFound](#) ([WiFiDirectDevice](#) mDevice, Map< String, String > mListOfSocialWeight)
- void [notifyOnWiFiDirectDeviceDisappear](#) ([WiFiDirectDevice](#) mDevice)
- void [notifyError](#) (int mError)

## Private Attributes

- Context [mContext](#)
- [WiFiDirect](#) [mCallback](#)
- final IntentFilter [intentFilter](#) = new IntentFilter()
- [WifiP2pManager](#) [manager](#)
- String [mSendingToDevice](#)
- Channel [channel](#)
- BroadcastReceiver [receiver](#) = null
- [WifiP2pDnsSdServiceRequest](#) [serviceRequest](#)
- [WifiP2pDnsSdServiceInfo](#) [service](#)
- boolean [isWifiP2pEnabled](#) = false
- Map< String, List< [Packet](#) > > [mToSend](#) = new HashMap<String, List<[Packet](#)>>()
- Map< String, String > [txtRecordMapReceived](#)
- Handler [handler](#) = new Handler(this)
- String [gMAC](#)
- Map< String, String > [gListOfSocialWeight](#)
- Timer [timer](#)
- TimerTask [timerTask](#)
- int [TimerStatus](#) = [TIMER\\_IDLE](#)

## Static Private Attributes

- static final int [TIMER\\_SCHEDULED](#) = 0
- static final int [TIMER\\_IDLE](#) = 1
- static final int [TIMER\\_RUNNING](#) = 2

## 6.27.1 Constructor & Destructor Documentation

6.27.1.1 `com.copelabs.socio.wifi.WiFiDirectUtils.WiFiDirectUtils ( Context mContext, WiFiDirect mCallback )`

[WiFiDirectUtils](#) constructor.

## Parameters

<i>mContext</i>	Interface to global information about an application environment.
<i>mCallback</i>	<a href="#">WiFiDirect</a> module.

## 6.27.2 Member Function Documentation

6.27.2.1 void com.copelabs.socio.wifi.WiFiDirectUtils.checkNextPacketQueue ( String *mDeviceMAC* ) [private]

Check if there is more packets inside the queue. If true, starts the timer that will initiate a WiFi P2P connection.

## Parameters

<i>mDeviceMAC</i>	Destination device MAC address
-------------------	--------------------------------

6.27.2.2 void com.copelabs.socio.wifi.WiFiDirectUtils.connectP2p ( final String *mDeviceMAC* ) [private]

Start a WiFi P2P connection.

## Parameters

<i>mDeviceMAC</i>	Destination device.
-------------------	---------------------

6.27.2.3 void com.copelabs.socio.wifi.WiFiDirectUtils.dealWithConnectionEnded ( boolean *failed* )

When a connection finish, this function verifies if an error occurred.

## Parameters

<i>failed</i>	error flag.
---------------	-------------

6.27.2.4 void com.copelabs.socio.wifi.WiFiDirectUtils.disconnectP2p ( ) [private]

Disconnects a WiFi P2P established connection.

6.27.2.5 void com.copelabs.socio.wifi.WiFiDirectUtils.discoverService ( )

Start the WiFi P2P bonjour discover mechanism. A new TXT record is available. Pick up the advertised buddy name.

6.27.2.6 Handler com.copelabs.socio.wifi.WiFiDirectUtils.getHandler ( )

6.27.2.7 boolean com.copelabs.socio.wifi.WiFiDirectUtils.getIsWifiP2pEnabled ( )

Returns the WiFi state.

6.27.2.8 String com.copelabs.socio.wifi.WiFiDirectUtils.getWFDirectMacAddress ( )

Get the MAC address of WiFi P2P interface. Only returns a MAC address if this device is a group owner.

## Returns

WiFi P2P interface MAC address

#### 6.27.2.9 String com.copelabs.socio.wifi.WiFiDirectUtils.getWiFiMacAddress ( )

Get the MAC address of WiFi interface.

##### Returns

WiFi MAC address

#### 6.27.2.10 boolean com.copelabs.socio.wifi.WiFiDirectUtils.handleMessage ( Message msg )

Handle the output from a WiFi P2P connection.

#### 6.27.2.11 void com.copelabs.socio.wifi.WiFiDirectUtils.initializeTimerTask ( final String mDeviceMAC )

Timer code that when this timer finish, it start a connection to a specific device.

##### Parameters

<i>mDeviceMAC</i>	device MAC address to start a WiFi P2P connection.
-------------------	--

#### 6.27.2.12 boolean com.copelabs.socio.wifi.WiFiDirectUtils.makeConnection ( WiFiDirectDevice mDevice, ArrayList< Packet > mPackets )

Starts the timer that will initiate a WiFi P2P connection to the destination device.

##### Parameters

<i>mDevice</i>	Destination device
<i>mPackets</i>	List of packets to be sent

##### Returns

true if connection successfully requested, or false if error occurs.

#### 6.27.2.13 void com.copelabs.socio.wifi.WiFiDirectUtils.notifyError ( int mError ) [private]

Notifies modules above about an error occurred inside the framework

##### Parameters

<i>mError</i>	Error code.
---------------	-------------

#### 6.27.2.14 void com.copelabs.socio.wifi.WiFiDirectUtils.notifyOnNewWiFiDirectDeviceFound ( WiFiDirectDevice mDevice, Map< String, String > mListOfSocialWeight ) [private]

Notifies the [WiFiDirect](#) class that a new device was found.

##### Parameters

<i>mDevice</i>	Device found
<i>mListOfSocialWeight</i>	List of social weights from the device found



6.27.2.15 void com.copelabs.socio.wifi.WiFiDirectUtils.notifyOnWiFiDirectDeviceDisappear ( [WiFiDirectDevice](#) *mDevice* )  
[private]

Notifies the [WiFiDirect](#) class that a device disappeared.

## Parameters

<i>mDevice</i>	Device found
----------------	--------------

6.27.2.16 void com.copelabs.socio.wifi.WiFiDirectUtils.notifyPacketReceived ( List< Packet > *mListOfPackets* )  
[private]

Notifies the [WiFiDirect](#) class that a new packet arrived.

## Parameters

<i>mListOfPackets</i>	Packet arrived
-----------------------	----------------

6.27.2.17 void com.copelabs.socio.wifi.WiFiDirectUtils.onConnectionInfoAvailable ( WifiP2pInfo *p2pInfo* )

Called when connection info is available.

## Parameters

<i>p2pInfo</i>	Connection info
----------------	-----------------

6.27.2.18 void com.copelabs.socio.wifi.WiFiDirectUtils.onPeersAvailable ( WifiP2pDeviceList *peers* )

PeerListListener Receives all peers available by WiFi P2P.

## Parameters

<i>peers</i>	list of peers available
--------------	-------------------------

6.27.2.19 void com.copelabs.socio.wifi.WiFiDirectUtils.registration ( String *mMAC*, Map< String, String > *mListOfSocialWeight* ) [private]

Registers a new info to be announced by the WiFi P2P

## Parameters

<i>mMAC</i>	Local MAC address.
<i>mListOfSocialWeight</i>	List of known SOCIO enabled devices and their social weights.

6.27.2.20 void com.copelabs.socio.wifi.WiFiDirectUtils.restartDiscovery ( )

Restart WiFi P2P Discovery

6.27.2.21 void com.copelabs.socio.wifi.WiFiDirectUtils.setHandler ( Handler *handler* )

6.27.2.22 void com.copelabs.socio.wifi.WiFiDirectUtils.setIsWifiP2pEnabled ( boolean *isWifiP2pEnabled* )

Set the WiFi status flag

## Parameters

<i>isWifiP2pEnabled</i>	the isWifiP2pEnabled to set
-------------------------	-----------------------------

6.27.2.23 void com.copelabs.socio.wifi.WiFiDirectUtils.start ( final String *mMAC*, final Map< String, String > *mListOfSocialWeight* )

Starts WiFi P2P mechanisms to discover peers and also to register this framework as an available service.

6.27.2.24 void com.copelabs.socio.wifi.WiFiDirectUtils.startRegistrationAndDiscovery ( String *mMAC*, Map< String, String > *mListOfSocialWeight* ) [private]

Registers a local service and then initiates a service discovery

6.27.2.25 void com.copelabs.socio.wifi.WiFiDirectUtils.startTimer ( String *mDeviceMAC* )

Schedule a random timer to avoid collisions during the connection phase.

## Parameters

<i>mDeviceMAC</i>	Device MAC address to establish a WiFi P2P connection.
-------------------	--

6.27.2.26 void com.copelabs.socio.wifi.WiFiDirectUtils.stop ( )

Stops WiFi P2P mechanism. If a group is formed, it's removed.

6.27.2.27 void com.copelabs.socio.wifi.WiFiDirectUtils.stopTimer ( )

Stops the timer.

6.27.2.28 void com.copelabs.socio.wifi.WiFiDirectUtils.updateRegistration ( final String *mMAC*, final Map< String, String > *mListOfSocialWeight* )

Update the info that is announced by the WiFi P2P

## Parameters

<i>mMAC</i>	Local MAC address
<i>mListOfSocialWeight</i>	List of known SOCIO enabled devices and their social weight.

6.27.2.29 void com.copelabs.socio.wifi.WiFiDirectUtils.wifiDisabled ( )

When WiFi is disabled, close all local services and service requests.

6.27.2.30 void com.copelabs.socio.wifi.WiFiDirectUtils.wifiWasEnabled ( )

## 6.27.3 Member Data Documentation

**6.27.3.1** Channel `com.copelabs.socio.wifi.WiFiDirectUtils.channel` [private]

A channel that connects the application to the Wifi p2p framework.

**6.27.3.2** final int `com.copelabs.socio.wifi.WiFiDirectUtils.EMPTY = 0x400 + 3` [static]

**6.27.3.3** Map<String, String> `com.copelabs.socio.wifi.WiFiDirectUtils.gListOfSocialWeight` [private]

List of known contacts and their social weight announced.

**6.27.3.4** String `com.copelabs.socio.wifi.WiFiDirectUtils.gMAC` [private]

Local MAC address announced

**6.27.3.5** Handler `com.copelabs.socio.wifi.WiFiDirectUtils.handler = new Handler(this)` [private]

Thread handler

**6.27.3.6** final IntentFilter `com.copelabs.socio.wifi.WiFiDirectUtils.intentFilter = new IntentFilter()` [private]

Structured description of Intent values to be matched.

**6.27.3.7** boolean `com.copelabs.socio.wifi.WiFiDirectUtils.isWifiP2pEnabled = false` [private]

WiFi flag about the WiFi state

**6.27.3.8** final String `com.copelabs.socio.wifi.WiFiDirectUtils.KEY_MAC = "key_mac"` [static]

TXT Properties - Key MAC index

**6.27.3.9** WifiP2pManager `com.copelabs.socio.wifi.WiFiDirectUtils.manager` [private]

This class provides the API for managing Wi-Fi peer-to-peer connectivity.

**6.27.3.10** ArrayList<WifiDirectDevice> `com.copelabs.socio.wifi.WiFiDirectUtils.mAvailableDevices = new ArrayList<WifiDirectDevice>()`

List of SOCIO enabled devices found by the WiFi P2P.

**6.27.3.11** WifiDirect `com.copelabs.socio.wifi.WiFiDirectUtils.mCallback` [private]

[WifiDirect](#) module

**6.27.3.12** Context `com.copelabs.socio.wifi.WiFiDirectUtils.mContext` [private]

Interface to global information about an application environment.

6.27.3.13 `final int com.copelabs.socio.wifi.WiFiDirectUtils.MESSAGE_READ = 0x400 + 1` [static]

6.27.3.14 `String com.copelabs.socio.wifi.WiFiDirectUtils.mSendingToDevice` [private]

6.27.3.15 `String com.copelabs.socio.wifi.WiFiDirectUtils.mThisDeviceMACP2p`

WiFi P2P MAC Address from this device

6.27.3.16 `Map<String, List<Packet>> com.copelabs.socio.wifi.WiFiDirectUtils.mToSend = new HashMap<String, List<Packet>>()` [private]

Queue of packets to send.

6.27.3.17 `BroadcastReceiver com.copelabs.socio.wifi.WiFiDirectUtils.receiver = null` [private]

Base class for code that will receive intents sent by sendBroadcast().

6.27.3.18 `WifiP2pDnsSdServiceInfo com.copelabs.socio.wifi.WiFiDirectUtils.service` [private]

A class for storing Bonjour service information that is advertised over a Wi-Fi peer-to-peer setup.

6.27.3.19 `final String com.copelabs.socio.wifi.WiFiDirectUtils.SERVICE_INSTANCE = "_oiframework"` [static]

TXT Properties - Application Identification

6.27.3.20 `final String com.copelabs.socio.wifi.WiFiDirectUtils.SERVICE_REG_TYPE = "_presence_tcp"` [static]

TXT Properties - Application type

6.27.3.21 `WifiP2pDnsSdServiceRequest com.copelabs.socio.wifi.WiFiDirectUtils.serviceRequest` [private]

A class for creating a Bonjour service discovery request.

6.27.3.22 `final int com.copelabs.socio.wifi.WiFiDirectUtils.SOCKETERROR = 0x400 + 2` [static]

6.27.3.23 `Timer com.copelabs.socio.wifi.WiFiDirectUtils.timer` [private]

Timer used to add a random delay to the WiFi P2P connection to avoid collisions.

6.27.3.24 `final int com.copelabs.socio.wifi.WiFiDirectUtils.TIMER_IDLE = 1` [static], [private]

Timer idle status

6.27.3.25 `final int com.copelabs.socio.wifi.WiFiDirectUtils.TIMER_RUNNING = 2` [static], [private]

Timer running status

6.27.3.26 `final int com.copelabs.socio.wifi.WiFiDirectUtils.TIMER_SCHEDULED = 0` [static], [private]

Timer scheduled status

6.27.3.27 `int com.copelabs.socio.wifi.WiFiDirectUtils.TimerStatus = TIMER_IDLE` [private]

Timer status

6.27.3.28 `TimerTask com.copelabs.socio.wifi.WiFiDirectUtils.timerTask` [private]

Timer code.

6.27.3.29 `Map<String, String> com.copelabs.socio.wifi.WiFiDirectUtils.txtRecordMapReceived` [private]

Map that saves the TXT record received by WiFi P2P.

6.27.3.30 `final int com.copelabs.socio.wifi.WiFiDirectUtils.WIFI_CONNECTED = 2` [static]

6.27.3.31 `final int com.copelabs.socio.wifi.WiFiDirectUtils.WIFI_CONNECTING = 1` [static]

6.27.3.32 `final int com.copelabs.socio.wifi.WiFiDirectUtils.WIFI_DISCONNECTED = 3` [static]

6.27.3.33 `final int com.copelabs.socio.wifi.WiFiDirectUtils.WIFI_IDLE = 0` [static]

6.27.3.34 `int com.copelabs.socio.wifi.WiFiDirectUtils.WiFiStatus = WIFI_IDLE`

WiFi P2P status.

The documentation for this class was generated from the following file:

- `src/com/copelabs/socio/wifi/WiFiDirectUtils.java`

## 6.28 com.copelabs.socio.contentmanager.XmlPullParserHandler Class Reference

### Public Member Functions

- `List< Packet > getOiMessages ()`
- `List< Packet > parse (InputStream is)`

### Private Attributes

- `List< Packet > OiMessages = new ArrayList<Packet>()`
- `Packet OiMessage`
- `String mTagContent`

### 6.28.1 Detailed Description

Handles the list of messages associated to an xml file

#### Parameters

<i>OiMessages</i>	list of messages. Each OiMessage holds a set of objects of type Item
-------------------	--

#### Author

rute

Returns

OiMessages

## 6.28.2 Member Function Documentation

6.28.2.1 `List<Packet> com.copelabs.socio.contentmanager.XmlPullParserHandler.getOiMessages ( )`

6.28.2.2 `List<Packet> com.copelabs.socio.contentmanager.XmlPullParserHandler.parse ( InputStream is )`

Parameters

<i>is</i>	Parses messages stored in an xml file descriptor is
-----------	---

Returns

## 6.28.3 Member Data Documentation

6.28.3.1 `String com.copelabs.socio.contentmanager.XmlPullParserHandler.mTagContent` [private]

6.28.3.2 `Packet com.copelabs.socio.contentmanager.XmlPullParserHandler.OiMessage` [private]

6.28.3.3 `List<Packet> com.copelabs.socio.contentmanager.XmlPullParserHandler.OiMessages = new ArrayList<Packet>()`  
[private]

The documentation for this class was generated from the following file:

- [src/com/copelabs/socio/contentmanager/XmlPullParserHandler.java](#)





## Chapter 7

# File Documentation

### 7.1 `src/com/copelabs/socio/bt/BluetoothManager.java` File Reference

#### Classes

- class [com.copelabs.socio.bt.BluetoothManager](#)
- class **com.copelabs.socio.bt.BluetoothManager.FindBluetoothDevice**
- class **com.copelabs.socio.bt.BluetoothManager.adapterBroadcastReceiver**

#### Packages

- package [com.copelabs.socio.bt](#)

### 7.2 `src/com/copelabs/socio/bt/BTDeviceFinder.java` File Reference

#### Classes

- interface [com.copelabs.socio.bt.BTDeviceFinder](#)

#### Packages

- package [com.copelabs.socio.bt](#)

### 7.3 `src/com/copelabs/socio/contentmanager/CleanTask.java` File Reference

#### Classes

- class [com.copelabs.socio.contentmanager.CleanTask](#)

#### Packages

- package [com.copelabs.socio.contentmanager](#)

## 7.4 `src/com/copelabs/socio/contentmanager/ContentManager.java` File Reference

### Classes

- class [com.copelabs.socio.contentmanager.ContentManager](#)

### Packages

- package [com.copelabs.socio.contentmanager](#)

## 7.5 `src/com/copelabs/socio/contentmanager/FileIO.java` File Reference

### Classes

- class [com.copelabs.socio.contentmanager.FileIO](#)

### Packages

- package [com.copelabs.socio.contentmanager](#)

## 7.6 `src/com/copelabs/socio/contentmanager/Packet.java` File Reference

### Classes

- class [com.copelabs.socio.contentmanager.Packet](#)

### Packages

- package [com.copelabs.socio.contentmanager](#)

## 7.7 `src/com/copelabs/socio/contentmanager/XMLPullParserHandler.java` File Reference

this class corresponds to the core of Oi!, an instant messaging tool for delay tolerant networking Oi can work without an infrastructure Oi performs routing of messages based on the dLife opportunistic solution

### Classes

- class [com.copelabs.socio.contentmanager.XMLPullParserHandler](#)

### Packages

- package [com.copelabs.socio.contentmanager](#)

### 7.7.1 Detailed Description

this class corresponds to the core of Oi!, an instant messaging tool for delay tolerant networking Oi can work without an infrastructure Oi performs routing of messages based on the dLife opportunistic solution

COPELABS - Oi!

#### Author

Rute Sofia (COPELABS/ULHT)

#### Date

20/05/2015

#### Version

v1.0 - pre-prototype

## 7.8 src/com/copelabs/socio/router/Routing.java File Reference

### Classes

- class [com.copelabs.socio.router.Routing](#)

### Packages

- package [com.copelabs.socio.router](#)

## 7.9 src/com/copelabs/socio/router/RoutingListener.java File Reference

### Classes

- interface [com.copelabs.socio.router.RoutingListener](#)

### Packages

- package [com.copelabs.socio.router](#)

## 7.10 src/com/copelabs/socio/socialproximity/DataBase.java File Reference

### Classes

- class [com.copelabs.socio.socialproximity.DataBase](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.11 `src/com/copelabs/socio/socialproximity/DataBaseChangeListener.java` File Reference

### Classes

- interface [com.copelabs.socio.socialproximity.DataBaseChangeListener](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.12 `src/com/copelabs/socio/socialproximity/OnSocialWeightUpdate.java` File Reference

### Classes

- class [com.copelabs.socio.socialproximity.OnSocialWeightUpdate](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.13 `src/com/copelabs/socio/socialproximity/SocialProximity.java` File Reference

### Classes

- class [com.copelabs.socio.socialproximity.SocialProximity](#)
- class [com.copelabs.socio.socialproximity.SocialProximity.CustomComparator](#)
- class [com.copelabs.socio.socialproximity.SocialProximity.ServiceBTListener](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.14 `src/com/copelabs/socio/socialproximity/SocialProximityListener.java` File Reference

### Classes

- interface [com.copelabs.socio.socialproximity.SocialProximityListener](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.15 `src/com/copelabs/socio/socialproximity/SocialWeight.java` File Reference

### Classes

- class [com.copelabs.socio.socialproximity.SocialWeight](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.16 src/com/copelabs/socio/socialproximity/SQLiteHelper.java File Reference

### Classes

- class [com.copelabs.socio.socialproximity.SQLiteHelper](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.17 src/com/copelabs/socio/socialproximity/UserDevAverageEncounterDuration.java File Reference

### Classes

- class [com.copelabs.socio.socialproximity.UserDevAverageEncounterDuration](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.18 src/com/copelabs/socio/socialproximity/UserDevEncounterDuration.java File Reference

### Classes

- class [com.copelabs.socio.socialproximity.UserDevEncounterDuration](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.19 src/com/copelabs/socio/socialproximity/UserDeviceInfo.java File Reference

### Classes

- class [com.copelabs.socio.socialproximity.UserDeviceInfo](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.20 [src/com/copelabs/socio/socialproximity/UserDevSocialWeight.java](#) File Reference

### Classes

- class [com.copelabs.socio.socialproximity.UserDevSocialWeight](#)

### Packages

- package [com.copelabs.socio.socialproximity](#)

## 7.21 [src/com/copelabs/socio/wifi/ClientSocketHandler.java](#) File Reference

### Classes

- class [com.copelabs.socio.wifi.ClientSocketHandler](#)

### Packages

- package [com.copelabs.socio.wifi](#)

## 7.22 [src/com/copelabs/socio/wifi/ServerThread.java](#) File Reference

### Classes

- class [com.copelabs.socio.wifi.ServerThread](#)

### Packages

- package [com.copelabs.socio.wifi](#)

## 7.23 [src/com/copelabs/socio/wifi/WiFiDirect.java](#) File Reference

### Classes

- class [com.copelabs.socio.wifi.WiFiDirect](#)

### Packages

- package [com.copelabs.socio.wifi](#)

## 7.24 [src/com/copelabs/socio/wifi/WiFiDirectBroadcastReceiver.java](#) File Reference

### Classes

- class [com.copelabs.socio.wifi.WiFiDirectBroadcastReceiver](#)

### Packages

- package [com.copelabs.socio.wifi](#)

## 7.25 src/com/copelabs/socio/wifi/WiFiDirectDevice.java File Reference

### Classes

- class [com.copelabs.socio.wifi.WiFiDirectDevice](#)

### Packages

- package [com.copelabs.socio.wifi](#)

## 7.26 src/com/copelabs/socio/wifi/WiFiDirectListener.java File Reference

### Classes

- interface [com.copelabs.socio.wifi.WiFiDirectListener](#)

### Packages

- package [com.copelabs.socio.wifi](#)

## 7.27 src/com/copelabs/socio/wifi/WiFiDirectUtils.java File Reference

### Classes

- class [com.copelabs.socio.wifi.WiFiDirectUtils](#)

### Packages

- package [com.copelabs.socio.wifi](#)





Oi!

v1.0

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# Chapter 1

## Namespace Index

### 1.1 Packages

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## Chapter 2

# Hierarchical Index

### 2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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## Chapter 3

# Class Index

### 3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<a href="#">com.copelabs.oiui.DeviceMessageFragment.ChatMessageAdapter</a>	9
<a href="#">com.copelabs.oiui.ContactListAdapter</a>	9
<a href="#">com.copelabs.oiui.DeviceListFragment.DeviceActionListener</a>	10
<a href="#">com.copelabs.oiui.DeviceListFragment</a>	10
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<a href="#">com.copelabs.oiui.MainActivity</a>	13



## Chapter 4

# Namespace Documentation

### 4.1 Package com.copelabs.oii

#### Classes

- class [ContactListAdapter](#)
- class [DeviceListFragment](#)
- class [DeviceMessageFragment](#)
- interface [FragCommunicatorDevices](#)
- interface [FragCommunicatorMessages](#)
- class [MainActivity](#)

#### 4.1.1 Detailed Description

##### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the Oi! Application. This class manages the contact list shown at the activity layout.

##### Author

Luis Amaral Lopes (COPELABS/ULHT)

##### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the Oi! Application. This class manages a fragment inside the activity that shows the available devices.

##### Author

Luis Amaral Lopes (COPELABS/ULHT)

##### Version

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the Oi! Application. This class manages a fragment inside the activity that shows the received messages.

##### Author

Luis Amaral Lopes (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the Oi! Application. It provides communication between activity and devices fragment.

**Author**

Luis Amaral Lopes (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the Oi! Application. It provides communication between activity and messages fragment.

**Author**

Luis Amaral Lopes (COPELABS/ULHT)

**Version**

1.0 COPYRIGHTS COPELABS/ULHT, LGPLv3.0, 17-05-2016 Class is part of the Oi! Application. This class manages the User interface and also triggers the connection to the SOCIO framework.

**Author**

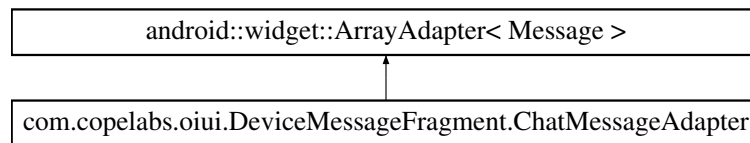
Luis Amaral Lopes (COPELABS/ULHT)

## Chapter 5

# Class Documentation

### 5.1 com.copelabs.oium.DeviceMessageFragment.ChatMessageAdapter Class Reference

Inheritance diagram for com.copelabs.oium.DeviceMessageFragment.ChatMessageAdapter:



#### Public Member Functions

- **ChatMessageAdapter** (Context context, int layoutResourceId, List< Message > items)
- View **getView** (int position, View convertView, ViewGroup parent)

#### 5.1.1 Detailed Description

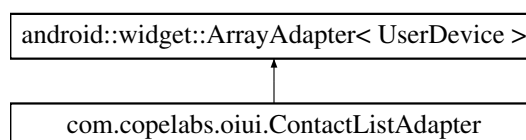
ArrayAdapter to manage chat messages.

The documentation for this class was generated from the following file:

- src/com/copelabs/oium/DeviceMessageFragment.java

### 5.2 com.copelabs.oium.ContactListAdapter Class Reference

Inheritance diagram for com.copelabs.oium.ContactListAdapter:



#### Public Member Functions

- **ContactListAdapter** (Context mContext, List< UserDevice > items)

- View **getDropDownView** (int position, View convertView, ViewGroup parent)
- UserDevice **getItem** (int position)
- View **getView** (int position, View convertView, ViewGroup parent)

The documentation for this class was generated from the following file:

- src/com/copelabs/oiui/ContactListAdapter.java

## 5.3 com.copelabs.oiui.DeviceListFragment.DeviceActionListener Interface Reference

### Public Member Functions

- void **showDetails** (WifiP2pDevice device)
- void **cancelDisconnect** ()
- void **connect** (WifiP2pConfig config)
- void **disconnect** ()

### 5.3.1 Detailed Description

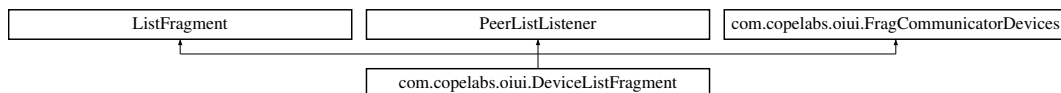
An interface-callback for the activity to listen to fragment interaction events.

The documentation for this interface was generated from the following file:

- src/com/copelabs/oiui/DeviceListFragment.java

## 5.4 com.copelabs.oiui.DeviceListFragment Class Reference

Inheritance diagram for com.copelabs.oiui.DeviceListFragment:



### Classes

- interface [DeviceActionListener](#)

### Public Member Functions

- void **onAttach** (Activity activity)
- void **onActivityCreated** (Bundle savedInstanceState)
- View **onCreateView** (LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState)
- WifiP2pDevice **getDevice** ()
- void **updateThisDevice** (UserDevice device)
- void **removeThisDevice** (UserDevice device)
- void **showMsgFromFramework** (int mError)
- void **onPeersAvailable** (WifiP2pDeviceList peerList)
- void **clearPeers** ()
- void **onInitiateDiscovery** ()
- void **newDeviceInfo** (final UserDevice mDevice)
- void **lostDevice** (final UserDevice mDevice)
- void **showError** (final int mError)

## Static Public Attributes

- static final String **TAG** = "DeviceListFragment"

### 5.4.1 Detailed Description

A ListFragment that displays available peers on discovery and requests the parent activity to handle user interaction events

### 5.4.2 Member Function Documentation

#### 5.4.2.1 WifiP2pDevice com.copelabs.oiiui.DeviceListFragment.getDevice ( )

Returns

this device

#### 5.4.2.2 void com.copelabs.oiiui.DeviceListFragment.updateThisDevice ( UserDevice device )

Update UI for this device.

Parameters

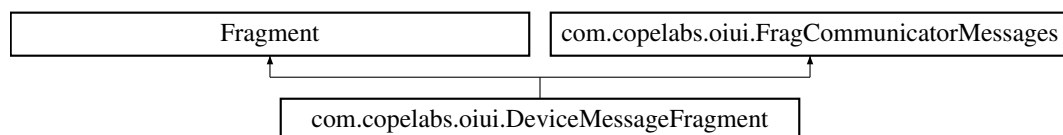
<i>device</i>	WifiP2pDevice object
---------------	----------------------

The documentation for this class was generated from the following file:

- src/com/copelabs/oiiui/DeviceListFragment.java

## 5.5 com.copelabs.oiiui.DeviceMessageFragment Class Reference

Inheritance diagram for com.copelabs.oiiui.DeviceMessageFragment:



## Classes

- class [ChatMessageAdapter](#)

## Public Member Functions

- void **onActivityCreated** (Bundle savedInstanceState)
- View **onCreateView** (LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState)
- void **onAttach** (Activity activity)
- void **onActivityResult** (int requestCode, int resultCode, Intent data)
- void [showDetails](#) (WifiP2pDevice device)
- void [resetViews](#) ()
- void **passDataToFragment** (final UserDevice mSource, final UserDevice mDestination, final String mMessage)
- void **pushMessage** (Message mNewMessage)

### Static Public Attributes

- static final String **TAG** = "DeviceDetailFragment"
- static WifiP2pInfo **info**
- static boolean **transferStatus** =false

### Static Protected Attributes

- static final int **CHOOSE\_FILE\_RESULT\_CODE** = 20

#### 5.5.1 Detailed Description

A fragment that manages a particular peer and allows interaction with device i.e. setting up network connection and transferring data.

#### 5.5.2 Member Function Documentation

##### 5.5.2.1 void com.copelabs.oiiui.DeviceMessageFragment.resetViews ( )

Clears the UI fields after a disconnect or direct mode disable operation.

##### 5.5.2.2 void com.copelabs.oiiui.DeviceMessageFragment.showDetails ( WifiP2pDevice *device* )

Updates the UI with device data

##### Parameters

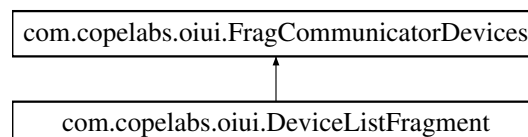
<i>device</i>	the device to be displayed
---------------	----------------------------

The documentation for this class was generated from the following file:

- src/com/copelabs/oiiui/DeviceMessageFragment.java

## 5.6 com.copelabs.oiiui.FragCommunicatorDevices Interface Reference

Inheritance diagram for com.copelabs.oiiui.FragCommunicatorDevices:



### Public Member Functions

- void **newDeviceInfo** (UserDevice mDevice)
- void **lostDevice** (UserDevice mDevice)
- void **showError** (int mError)

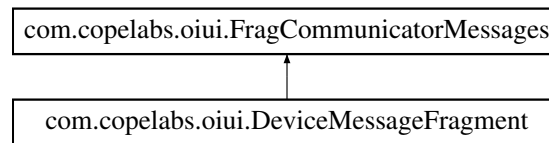
The documentation for this interface was generated from the following file:

- src/com/copelabs/oiiui/FragCommunicatorDevices.java



## 5.7 com.copelabs.oiui.FragCommunicatorMessages Interface Reference

Inheritance diagram for com.copelabs.oiui.FragCommunicatorMessages:



### Public Member Functions

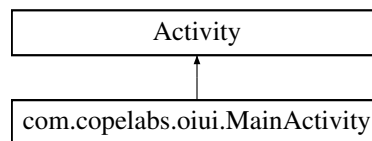
- void **passDataToFragment** (UserDevice mSource, UserDevice mDestination, String mMessage)

The documentation for this interface was generated from the following file:

- src/com/copelabs/oiui/FragCommunicatorMessages.java

## 5.8 com.copelabs.oiui.MainActivity Class Reference

Inheritance diagram for com.copelabs.oiui.MainActivity:



### Classes

- class **RemoteOiFrameworkConnection**

### Public Member Functions

- void **onCreate** (Bundle savedInstanceState)
- void **onResume** ()
- void **onPause** ()
- boolean **onKeyDown** (int keyCode, KeyEvent event)

### Public Attributes

- [FragCommunicatorMessages](#) **fragmentCommunicatorMessages**
- [FragCommunicatorDevices](#) **fragmentCommunicatorDevices**

### Static Public Attributes

- static final String **TAG** = "OiMainActivity"

### 5.8.1 Member Function Documentation

#### 5.8.1.1 `void com.copelabs.oiiui.MainActivity.onResume ( )`

Register the BroadcastReceiver with the intent values to be matched

### 5.8.2 Member Data Documentation

#### 5.8.2.1 `FragCommunicatorMessages com.copelabs.oiiui.MainActivity.fragmentCommunicatorMessages`

To communicate with MessageFragment

The documentation for this class was generated from the following file:

- `src/com/copelabs/oiiui/MainActivity.java`