

SOCIO Framework

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Hierarchical Index

2.1 Class Hierarchy

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

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Class Index

3.1 Class List

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File Index

4.1 File List

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Chapter 5

Namespace Documentation

5.1 Package com

Packages

- package [copelabs](#)

5.2 Package com.copelabs

Packages

- package [oiframework](#)

5.3 Package com.copelabs.oiframework

Packages

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

5.4 Package com.copelabs.oiframework.bt

Classes

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

5.5 Package com.copelabs.oiframework.contentmanager

Classes

- class [CleanTask](#)

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

5.6 Package com.copelabs.oiframework.router

Classes

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

5.7 Package com.copelabs.oiframework.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

Author

luislopes1

5.8 Package com.copelabs.oiframework.wifi

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- class [SendData](#)
- class [ServerThread](#)
- class [WiFiDirect](#)
- class [WifiDirectAutoAccept](#)
- class [WifiDirectBroadcastReceiver](#)
- class [WifiDirectDevice](#)
- interface [WifiDirectListener](#)
- class [WifiDirectUtils](#)

Chapter 6

Class Documentation

6.1 com.copelabs.oiframework.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](#) ()

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 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)

6.1.2 Constructor & Destructor Documentation

6.1.2.1 `com.copelabs.oiframework.bt.BluetoothManager.BluetoothManager (Context c)`

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

Parameters

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

6.1.3 Member Function Documentation

6.1.3.1 `void com.copelabs.oiframework.bt.BluetoothManager.clearOnBTChangeListener ()`

This method clears the change listener.

6.1.3.2 `void com.copelabs.oiframework.bt.BluetoothManager.close (Context c)`

This method stops scanning and unregister BroadcastReceivers.

Parameters

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

6.1.3.3 `boolean com.copelabs.oiframework.bt.BluetoothManager.enableBT ()`

This method enables Bluetooth.

6.1.3.4 `List<String> com.copelabs.oiframework.bt.BluetoothManager.getLocalInfo ()`

This method provides the MAC Address of local Bluetooth adapter.

Returns

localMacAdd The local MAC Address

6.1.3.5 `boolean com.copelabs.oiframework.bt.BluetoothManager.isBTEnabled ()`

This method checks whether Bluetooth is enabled.

6.1.3.6 `void com.copelabs.oiframework.bt.BluetoothManager.setOnBTChangeListener (BTDeviceFinder listener)`

This method sets a change listener.

Parameters

<i>listener</i>	The BTDeviceFinder listener
-----------------	---

6.1.3.7 `boolean com.copelabs.oiframework.bt.BluetoothManager.startDiscovery ()`

This method starts Bluetooth discovery process.

6.1.3.8 `void com.copelabs.oiframework.bt.BluetoothManager.startPeriodicScanning ()`

This method starts scanning.

6.1.3.9 `void com.copelabs.oiframework.bt.BluetoothManager.stopPeriodicScanning ()` [private]

This method stops scanning.

6.1.4 Member Data Documentation

6.1.4.1 `adapterBroadcastReceiver com.copelabs.oiframework.bt.BluetoothManager.adapterReceiver` [private]6.1.4.2 `BluetoothAdapter com.copelabs.oiframework.bt.BluetoothManager.androidBTAdapter` [private]6.1.4.3 `FindBluetoothDevice com.copelabs.oiframework.bt.BluetoothManager.BTDevFinder` [private]6.1.4.4 `Map<BluetoothDevice, BluetoothClass> com.copelabs.oiframework.bt.BluetoothManager.btDeviceList = new HashMap<BluetoothDevice, BluetoothClass>()` [private]6.1.4.5 `boolean com.copelabs.oiframework.bt.BluetoothManager.debug = true` [private]6.1.4.6 `int com.copelabs.oiframework.bt.BluetoothManager.DISCOVER_INTERVAL = 180000` [static]6.1.4.7 `String com.copelabs.oiframework.bt.BluetoothManager.fetchingUUIDfromDevice` [private]6.1.4.8 `boolean com.copelabs.oiframework.bt.BluetoothManager.isScanningActive = false`6.1.4.9 `boolean com.copelabs.oiframework.bt.BluetoothManager.isWaitingScanResults = false`

6.1.4.10 **BTDeviceFinder** `com.copelabs.oiframework.bt.BluetoothManager.listener` [private]

6.1.4.11 **boolean** `com.copelabs.oiframework.bt.BluetoothManager.mBTIsTurningOnOff = false` [static], [private]

6.1.4.12 **Context** `com.copelabs.oiframework.bt.BluetoothManager.mContext` [private]

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

6.1.4.14 **Runnable** `com.copelabs.oiframework.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...");
                    }
                    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.

6.1.4.15 **BluetoothServerSocket** `com.copelabs.oiframework.bt.BluetoothManager.socket` [private]

6.1.4.16 **final String** `com.copelabs.oiframework.bt.BluetoothManager.TAG = "BTManager"` [static], [private]

6.1.4.17 **UUID** `com.copelabs.oiframework.bt.BluetoothManager.uuid = UUID.fromString("01010101-0101-0101-0101-010101010101")` [private]

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

- `src/com/copelabs/oiframework/bt/BluetoothManager.java`

6.2 com.copelabs.oiframework.bt.BTDeviceFinder Interface Reference

Inherited by `com.copelabs.oiframework.socialproximity.SocialProximity.ServiceBTListener`.

Public Member Functions

- void `onDeviceFound` (BluetoothDevice device, BluetoothClass btClass)

6.2.1 Detailed Description

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)

6.2.2 Member Function Documentation

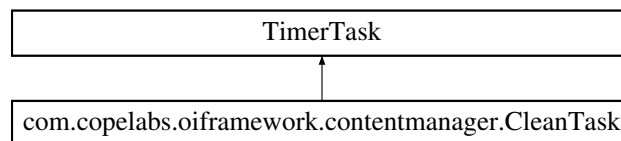
6.2.2.1 void com.copelabs.oiframework.bt.BTDeviceFinder.onDeviceFound (BluetoothDevice *device*, BluetoothClass *btClass*)

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

- src/com/copelabs/oiframework/bt/BTDeviceFinder.java

6.3 com.copelabs.oiframework.contentmanager.CleanTask Class Reference

Inheritance diagram for com.copelabs.oiframework.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 = 60000 * 60

6.3.1 Constructor & Destructor Documentation

6.3.1.1 com.copelabs.oiframework.contentmanager.CleanTask.CleanTask ()

6.3.2 Member Function Documentation

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

6.3.2.2 void com.copelabs.oiframework.contentmanager.CleanTask.run ()

6.3.3 Member Data Documentation

6.3.3.1 String com.copelabs.oiframework.contentmanager.CleanTask.TAG = "TTL_Check" [private]

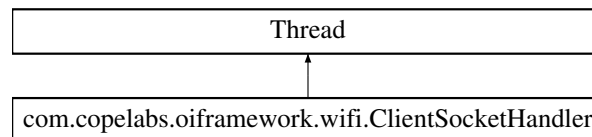
6.3.3.2 int com.copelabs.oiframework.contentmanager.CleanTask.timeout = 60000 * 60 [private]

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

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

6.4 com.copelabs.oiframework.wifi.ClientSocketHandler Class Reference

Inheritance diagram for com.copelabs.oiframework.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.oiframework.wifi.ClientSocketHandler.ClientSocketHandler (Handler *handler*, InetAddress *groupOwnerAddress*, List< [Packet](#) > *list*, String *mThisDeviceMACP2p*)

6.4.2 Member Function Documentation

6.4.2.1 void com.copelabs.oiframework.wifi.ClientSocketHandler.run ()

6.4.3 Member Data Documentation

6.4.3.1 Handler com.copelabs.oiframework.wifi.ClientSocketHandler.handler [private]

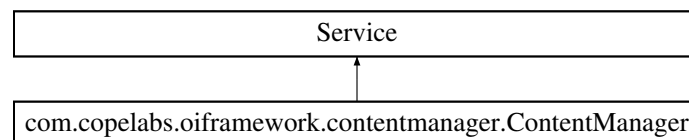
- 6.4.3.2 InetAddress com.copelabs.oiframework.wifi.ClientSocketHandler.mAddress [private]
- 6.4.3.3 List<Packet> com.copelabs.oiframework.wifi.ClientSocketHandler.mDataToSend [private]
- 6.4.3.4 String com.copelabs.oiframework.wifi.ClientSocketHandler.mThisDeviceMACP2p [private]
- 6.4.3.5 final String com.copelabs.oiframework.wifi.ClientSocketHandler.TAG = "ClientSocketHandler" [static], [private]

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

- src/com/copelabs/oiframework/wifi/[ClientSocketHandler.java](#)

6.5 com.copelabs.oiframework.contentmanager.ContentManager Class Reference

Inheritance diagram for com.copelabs.oiframework.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 IRemoteOiFramework.Stub [mBinder](#)

Static Private Attributes

- static final String [TAG](#) = "OiService"
- static final String [TAG2](#) = "Oi Demo"

6.5.1 Member Function Documentation

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

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

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

6.5.1.4 void com.copelabs.oiframework.contentmanager.ContentManager.initTTL_Timer () [private]

6.5.1.5 boolean com.copelabs.oiframework.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>	Packet to check if it this duplicated
-------------------	---------------------------------------

Returns

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

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

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

6.5.1.8 void com.copelabs.oiframework.contentmanager.ContentManager.onCreate ()

6.5.1.9 void com.copelabs.oiframework.contentmanager.ContentManager.onDestroy ()

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

Method used by the others packages, 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>mPacket</i>	
----------------	--

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

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

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

Parameters

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

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.oiframework.contentmanager.ContentManager.interfaceEnabled = 1` [private]

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

6.5.2.3 `Routing com.copelabs.oiframework.contentmanager.ContentManager.pRouting` [private]

6.5.2.4 `final String com.copelabs.oiframework.contentmanager.ContentManager.TAG = "OiService"` [static],
[private]

Follow Field Naming Conventions

Non-public, non-static field names start with m. Static field names start with s. Other fields start with a lower case letter. m stands for member variable or data member. Public static final fields (constants) are ALL_CAPS_WITH_UNDERSCORES.

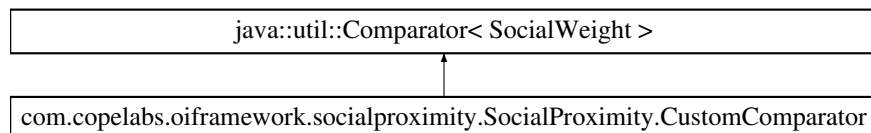
6.5.2.5 `final String com.copelabs.oiframework.contentmanager.ContentManager.TAG2 = "Oi Demo"` [static],
[private]

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

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

6.6 com.copelabs.oiframework.socialproximity.SocialProximity.CustomComparator Class Reference

Inheritance diagram for com.copelabs.oiframework.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.oiframework.socialproximity.SocialProximity.CustomComparator.compare (SocialWeight entry1, SocialWeight entry2)`

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

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

6.7 com.copelabs.oiframework.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

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)

6.7.2 Constructor & Destructor Documentation

6.7.2.1 com.copelabs.oiframework.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.oiframework.socialproximity.DataBase.closeDB ()

This method closes the predefined database.

6.7.3.2 UserDevAverageEncounterDuration com.copelabs.oiframework.socialproximity.DataBase.cursorToBTDev↔AverageEncounterDuration (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.oiframework.socialproximity.DataBase.cursorToBTDev↔EncounterDuration (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.oiframework.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.oiframework.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.oiframework.socialproximity.DataBase.get↵ AllBTDevAverageEncounterDuration ()

This method gets the all the BTUserDevAverageEncounterDuration recorded by the application on the BTDEVIC↵ EAVERAGEENCOUNTERDURATION 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.oiframework.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.oiframework.socialproximity.DataBase.getAllBTDevice ()

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

Returns

btDevMap The map with the BTUserDevice objects, and the BTDEV_MAC_ADDRESS as key.

6.7.3.9 `Map<String, UserDevSocialWeight> com.copelabs.oiframework.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.oiframework.socialproximity.DataBase.getBTDevice (String btDevice)`

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

Parameters

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

Returns

btDev The btDev object, null if not found.

6.7.3.11 `UserDevAverageEncounterDuration com.copelabs.oiframework.socialproximity.DataBase.getBTDeviceAverageEncounterDuration (String btDevAverageEncounterDuration)`

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

Parameters

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

Returns

btDevAvgEncDur The btDevAvgEncDur object, null if not found.

6.7.3.12 `UserDevEncounterDuration com.copelabs.oiframework.socialproximity.DataBase.getBTDeviceEncounterDuration (String btDevEncounterDuration)`

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

Parameters

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

Returns

btDevEncDur The btDevEncDur object, null if not found.

6.7.3.13 `UserDevSocialWeight com.copelabs.oiframework.socialproximity.DataBase.getBTDeviceSocialWeight (String btDevSocialWeight)`

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

Parameters

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

Returns

btDevSocWeight The btDevSocWeight object, null if not found.

6.7.3.14 long com.copelabs.oiframework.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.oiframework.socialproximity.DataBase.hasBTDevice (String *btDev*)

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

Parameters

<i>mac</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.oiframework.socialproximity.DataBase.openDB (boolean *writable*) throws SQLException

This method opens the predefined database.

Parameters

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

Exceptions

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

6.7.3.17 void com.copelabs.oiframework.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.oiframework.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.oiframework.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.oiframework.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.oiframework.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.oiframework.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.oiframework.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.oiframework.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.oiframework.socialproximity.DataBase.db` [private]

6.7.4.6 `SQLiteHelper com.copelabs.oiframework.socialproximity.DataBase.dbHelper` [private]

6.7.4.7 `boolean com.copelabs.oiframework.socialproximity.DataBase.isDbOpen` [private]

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

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

6.8 com.copelabs.oiframework.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 Detailed Description

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)

6.8.2 Member Function Documentation

6.8.2.1 void `com.copelabs.oiframework.socialproximity.DataBaseChangeListener.onDataBaseChangeAvgEncDur` (ArrayList< [UserDevAverageEncounterDuration](#) > *arrayList*)

6.8.2.2 void com.copelabs.oiframework.socialproximity.DataBaseChangeListener.onDataBaseChangeEncDur (ArrayList< UserDevEncounterDuration > arrayList)

6.8.2.3 void com.copelabs.oiframework.socialproximity.DataBaseChangeListener.onDataBaseChangeSocialWeight (ArrayList< UserDevSocialWeight > arrayList)

6.8.2.4 void com.copelabs.oiframework.socialproximity.DataBaseChangeListener.onDataBaseChangeUserDevice (ArrayList< UserDeviceInfo > arrayList)

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

- src/com/copelabs/oiframework/socialproximity/[DataBaseChangeListener.java](#)

6.9 com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy Class Reference

Public Member Functions

- [DialogListenerProxy](#) (WifiP2pManager m, WifiP2pManager.Channel c)
- void [onShowPinRequested](#) (String pin)
- void [onConnectionRequested](#) (WifiP2pDevice device, WifiP2pConfig config)
- void [onAttached](#) ()
- void [onDetached](#) (int reason)

Private Attributes

- WifiP2pManager [manager](#)
- WifiP2pManager.Channel [channel](#)

6.9.1 Detailed Description

A [DialogListenerProxy](#) provides access to the DialogListener interface and associated functionality.

DialogListener is used to handle WiFi P2P group formation events in Android API 16 and later.

6.9.2 Constructor & Destructor Documentation

6.9.2.1 com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy.DialogListenerProxy (WifiP2pManager m, WifiP2pManager.Channel c)

Construct a [DialogListenerProxy](#) for the requested manager and channel.

6.9.3 Member Function Documentation

6.9.3.1 void com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy.onAttached ()

Callback to report successful registration of this object.

6.9.3.2 void com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy.onConnectionRequested (WifiP2pDevice *device*, WifiP2pConfig *config*)

Callback that reports connection attempts.

The device parameter provides information about the remote device that is trying to form a P2P group. The config parameter describes the type of connection being made.

To accept a connection request, call manager.connect. config.wps.pin should be assigned within this method for PIN-based group formation before passing the config to manager.connect.

6.9.3.3 void com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy.onDetached (int *reason*)

Callback to report deregistration of this object.

The object will be deregistered automatically if a group formation event occurs when the application is in the background.

6.9.3.4 void com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy.onShowPinRequested (String *pin*)

Callback that provides the system-generated PIN.

6.9.4 Member Data Documentation

6.9.4.1 WifiP2pManager.Channel com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy.channel [private]

6.9.4.2 WifiP2pManager com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy.manager [private]

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

- src/com/copelabs/oiframework/wifi/WifiDirectAutoAccept.java

6.10 com.copelabs.oiframework.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"

6.10.1 Member Function Documentation

6.10.1.1 `static List<Packet> com.copelabs.oiframework.contentmanager.FileIO.readFile (String mFileType)` [static]

Read the messages at the file chosen by the caller.

Parameters

<i>mFileType</i>	
------------------	--

6.10.1.2 `static boolean com.copelabs.oiframework.contentmanager.FileIO.writeFile (String mFileType, Packet mPacket)` [static]

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

Parameters

<i>mFileType</i>	
<i>mPacket</i>	

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

6.10.2 Member Data Documentation

6.10.2.1 `final String com.copelabs.oiframework.contentmanager.FileIO.LOCALCACHE = "localCache"` [static]

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

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

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

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

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

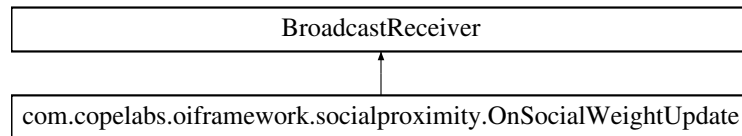
6.10.2.7 `final String com.copelabs.oiframework.contentmanager.FileIO.TOSEND = "toSend"` [static]

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

- `src/com/copelabs/oiframework/contentmanager/FileIO.java`

6.11 com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate Class Reference

Inheritance diagram for com.copelabs.oiframework.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](#) ()

Private Attributes

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

6.11.1 Detailed Description

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)

6.11.2 Constructor & Destructor Documentation

6.11.2.1 [com.copelabs.oiframework.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 SocialProximity object to allow notification on social weight changes.

6.11.3 Member Function Documentation

6.11.3.1 `void com.copelabs.oiframework.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.

- A negative value indicates the application restarted.

6.11.3.2 `int com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate.getTimeSlot ()`

This method provides the current time slot.

Returns

currentTimeSlot The actual time slot.

6.11.3.3 `void com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate.notifyDataBaseChange ()` [private]

This method notifies a database change to the listeners.

6.11.3.4 `void com.copelabs.oiframework.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.

6.11.3.5 `void com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate.showDevicesOnDB ()`

This method shows the Bluetooth devices stored on the DB.

6.11.4 Member Data Documentation

6.11.4.1 `DataBase com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate.database` [private]

6.11.4.2 `int com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate.day = 1` [static]

6.11.4.3 `boolean com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate.debug = true` [private]

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

6.11.4.5 `final String com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate.NEW_HOUR` [static]

Initial value:

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

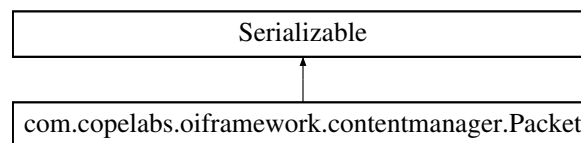
6.11.4.6 `final String com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate.TAG = "Social Proximity"` [private]

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

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

6.12 com.copelabs.oiframework.contentmanager.Packet Class Reference

Inheritance diagram for com.copelabs.oiframework.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

6.12.1 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

6.12.2 Constructor & Destructor Documentation

6.12.2.1 `com.copelabs.oiframework.contentmanager.Packet.Packet ()`

6.12.2.2 `com.copelabs.oiframework.contentmanager.Packet.Packet (String myBTMAC, String myBTName)`

6.12.3 Member Function Documentation

6.12.3.1 `String com.copelabs.oiframework.contentmanager.Packet.getApplication ()`

6.12.3.2 `String com.copelabs.oiframework.contentmanager.Packet.getIdDestination ()`

6.12.3.3 `String com.copelabs.oiframework.contentmanager.Packet.getIdSource ()`

6.12.3.4 `String com.copelabs.oiframework.contentmanager.Packet.getMessage ()`

6.12.3.5 `String com.copelabs.oiframework.contentmanager.Packet.getNameDestination ()`

6.12.3.6 String com.copelabs.oiframework.contentmanager.Packet.getNameSource ()

6.12.3.7 long com.copelabs.oiframework.contentmanager.Packet.getTimestamp ()

6.12.3.8 String com.copelabs.oiframework.contentmanager.Packet.getXmlEntry ()

Writes an OiMessage (List) in xml format

Returns

String an entry containing the xml format for an OiMessage

6.12.3.9 void com.copelabs.oiframework.contentmanager.Packet.setApplication (String *application*)

6.12.3.10 void com.copelabs.oiframework.contentmanager.Packet.setAttributes (String *idSource*, String *nameSource*, String *idDestination*, String *nameDestination*, String *application*, String *message*, long *timestamp*)

6.12.3.11 void com.copelabs.oiframework.contentmanager.Packet.setIdDestination (String *idDestination*)

6.12.3.12 void com.copelabs.oiframework.contentmanager.Packet.setIdSource (String *idSource*)

6.12.3.13 void com.copelabs.oiframework.contentmanager.Packet.setMessage (String *msg*)

6.12.3.14 void com.copelabs.oiframework.contentmanager.Packet.setNameDestination (String *nameDestination*)

6.12.3.15 void com.copelabs.oiframework.contentmanager.Packet.setNameSource (String *nameSource*)

6.12.3.16 void com.copelabs.oiframework.contentmanager.Packet.setTimestamp (long *ts*)

6.12.4 Member Data Documentation

6.12.4.1 String com.copelabs.oiframework.contentmanager.Packet.application [private]

6.12.4.2 String com.copelabs.oiframework.contentmanager.Packet.idDestination [private]

6.12.4.3 String com.copelabs.oiframework.contentmanager.Packet.idSource [private]

6.12.4.4 String com.copelabs.oiframework.contentmanager.Packet.message = "" [private]

6.12.4.5 String com.copelabs.oiframework.contentmanager.Packet.nameDestination [private]

6.12.4.6 String com.copelabs.oiframework.contentmanager.Packet.nameSource [private]

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

6.12.4.8 final String com.copelabs.oiframework.contentmanager.Packet.TAG_APPLICATION = "application" [static]

6.12.4.9 final String com.copelabs.oiframework.contentmanager.Packet.TAG_ID_DESTINATION = "idDestination"
[static]

6.12.4.10 final String com.copelabs.oiframework.contentmanager.Packet.TAG_ID_SOURCE = "idSource" [static]

6.12.4.11 final String com.copelabs.oiframework.contentmanager.Packet.TAG_MESSAGE = "message" [static]

6.12.4.12 final String com.copelabs.oiframework.contentmanager.Packet.TAG_NAME_DESTINATION = "nameDestination"
[static]

6.12.4.13 final String com.copelabs.oiframework.contentmanager.Packet.TAG_NAME_SOURCE = "nameSource" [static]

6.12.4.14 final String com.copelabs.oiframework.contentmanager.Packet.TAG_TIMESTAMP = "timestamp" [static]

6.12.4.15 long com.copelabs.oiframework.contentmanager.Packet.timestamp [private]

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

- src/com/copelabs/oiframework/contentmanager/[Packet.java](#)

6.13 com.copelabs.oiframework.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

6.13.1 Constructor & Destructor Documentation

6.13.1.1 `com.copelabs.oiframework.router.Routing.Routing (Context context)`

6.13.2 Member Function Documentation

6.13.2.1 `String com.copelabs.oiframework.router.Routing.addColonMAC (String toConvert) [private]`

6.13.2.2 `void com.copelabs.oiframework.router.Routing.announceListSocialWeight (Map< String, Integer > mList) [private]`

6.13.2.3 `Map<String, String> com.copelabs.oiframework.router.Routing.convertMapValueDoubleToString (Map< String, Integer > map) [private]`

6.13.2.4 `Map<String, Integer> com.copelabs.oiframework.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

6.13.2.5 `List<UserDevice> com.copelabs.oiframework.router.Routing.getContactList ()`

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

Returns

The list of contacts or null

6.13.2.6 `Map<String, List<Packet> > com.copelabs.oiframework.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.

6.13.2.7 `List<String> com.copelabs.oiframework.router.Routing.getLocalInfo ()`

Provides the MAC Address of local Bluetooth adapter

Returns

localMacAdd The local MAC Address or null

6.13.2.8 `String com.copelabs.oiframework.router.Routing.getLocalMacAddress ()`

6.13.2.9 `String com.copelabs.oiframework.router.Routing.getLocalName ()`

6.13.2.10 `Map<String, Integer> com.copelabs.oiframework.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

- 6.13.2.11 void com.copelabs.oiframework.router.Routing.newContentAvailable (Packet *mPacket*)
- 6.13.2.12 void com.copelabs.oiframework.router.Routing.notifyContactListUpdated (List< UserDevice > *mList*)
[private]
- 6.13.2.13 void com.copelabs.oiframework.router.Routing.notifyDeviceDisappear (UserDevice *mUserDevice*) [private]
- 6.13.2.14 void com.copelabs.oiframework.router.Routing.notifyError (int *mError*) [private]
- 6.13.2.15 void com.copelabs.oiframework.router.Routing.notifyNewDeviceFound (UserDevice *mUserDevice*) [private]
- 6.13.2.16 void com.copelabs.oiframework.router.Routing.notifyPacketReceived (List< Packet > *mListOfPackets*)
[private]

Notifies the ContentManager class that a new packet arrived.

Parameters

<i>mPacket</i>	Packet arrived
----------------	----------------

- 6.13.2.17 void com.copelabs.oiframework.router.Routing.setRoutingListener (RoutingListener *listener*)
- 6.13.2.18 void com.copelabs.oiframework.router.Routing.stop ()

6.13.3 Member Data Documentation

- 6.13.3.1 ArrayList<RoutingListener> com.copelabs.oiframework.router.Routing.listeners = new
ArrayList<RoutingListener> ()
- 6.13.3.2 SocialProximity com.copelabs.oiframework.router.Routing.pSocialProximity [private]
- 6.13.3.3 WiFiDirect com.copelabs.oiframework.router.Routing.pWiFiDirect [private]
- 6.13.3.4 final String com.copelabs.oiframework.router.Routing.TAG ="Routing" [static]

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

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

6.14 com.copelabs.oiframework.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)

6.14.1 Member Function Documentation

6.14.1.1 void com.copelabs.oiframework.router.RoutingListener.contactListUpdated (List< UserDevice > *mListOfPackets*)

6.14.1.2 void com.copelabs.oiframework.router.RoutingListener.deviceLost (UserDevice *mDevice*)

6.14.1.3 void com.copelabs.oiframework.router.RoutingListener.error (int *mError*)

6.14.1.4 Map<String, List<Packet> > com.copelabs.oiframework.router.RoutingListener.getListOfPackets (List< UserDevice > *mListOfUserDevices*)

6.14.1.5 void com.copelabs.oiframework.router.RoutingListener.newDeviceFound (UserDevice *mDevice*)

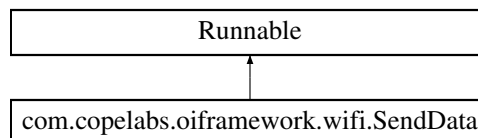
6.14.1.6 void com.copelabs.oiframework.router.RoutingListener.onPacketReceived (List< Packet > *mListOfPackets*)

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

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

6.15 com.copelabs.oiframework.wifi.SendData Class Reference

Inheritance diagram for com.copelabs.oiframework.wifi.SendData:



Public Member Functions

- [SendData](#) (Socket [socket](#), Handler [handler](#))
- void [run](#) ()
- void [write](#) (byte[] buffer)

Private Attributes

- Socket [socket](#) = null
- Handler [handler](#)
- InputStream [iStream](#)
- OutputStream [oStream](#)

Static Private Attributes

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

6.15.1 Detailed Description

Handles reading and writing of messages with socket buffers. Uses a Handler to post messages to UI thread for UI updates.

6.15.2 Constructor & Destructor Documentation

6.15.2.1 `com.copelabs.oiframework.wifi.SendData.SendData (Socket socket, Handler handler)`

6.15.3 Member Function Documentation

6.15.3.1 `void com.copelabs.oiframework.wifi.SendData.run ()`

6.15.3.2 `void com.copelabs.oiframework.wifi.SendData.write (byte[] buffer)`

6.15.4 Member Data Documentation

6.15.4.1 `Handler com.copelabs.oiframework.wifi.SendData.handler [private]`

6.15.4.2 `InputStream com.copelabs.oiframework.wifi.SendData.iStream [private]`

6.15.4.3 `OutputStream com.copelabs.oiframework.wifi.SendData.oStream [private]`

6.15.4.4 `Socket com.copelabs.oiframework.wifi.SendData.socket = null [private]`

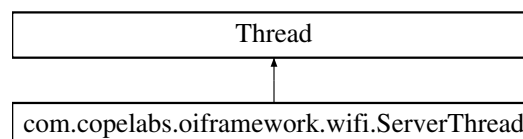
6.15.4.5 `final String com.copelabs.oiframework.wifi.SendData.TAG = "ChatHandler" [static], [private]`

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

- `src/com/copelabs/oiframework/wifi/SendData.java`

6.16 com.copelabs.oiframework.wifi.ServerThread Class Reference

Inheritance diagram for `com.copelabs.oiframework.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

- `final int THREAD_COUNT = 10`
- Handler `handler`
- Map< String, List< `Packet` >> `mToSend`

Static Private Attributes

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

6.16.1 Detailed Description

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

6.16.2 Constructor & Destructor Documentation

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

6.16.3 Member Function Documentation

- 6.16.3.1 `void com.copelabs.oiframework.wifi.ServerThread.run ()`

6.16.4 Member Data Documentation

- 6.16.4.1 `Handler com.copelabs.oiframework.wifi.ServerThread.handler` [private]
- 6.16.4.2 `Map<String, List<Packet> > com.copelabs.oiframework.wifi.ServerThread.mToSend` [private]
- 6.16.4.3 `final int com.copelabs.oiframework.wifi.ServerThread.SERVER_PORT = 4545` [static]
- 6.16.4.4 `final String com.copelabs.oiframework.wifi.ServerThread.TAG = "GroupOwnerSocketHandler"` [static], [private]
- 6.16.4.5 `final int com.copelabs.oiframework.wifi.ServerThread.THREAD_COUNT = 10` [private]

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

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

6.17 com.copelabs.oiframework.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](#) ()

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](#) = true

6.17.1 Detailed Description

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)

6.17.2 Constructor & Destructor Documentation

6.17.2.1 com.copelabs.oiframework.socialproximity.SocialProximity.SocialProximity (Context *context*)

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

Parameters

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

6.17.3 Member Function Documentation

6.17.3.1 `static void com.copelabs.oiframework.socialproximity.SocialProximity.appRestartReset () [static]`

This method resets flag for when app was restarted

6.17.3.2 `void com.copelabs.oiframework.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

6.17.3.3 `Map<String, Integer> com.copelabs.oiframework.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.

6.17.3.4 `List<UserDevice> com.copelabs.oiframework.socialproximity.SocialProximity.getContactList ()`

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

Returns

`listOfContacts` The list of contacts.

6.17.3.5 `List<String> com.copelabs.oiframework.socialproximity.SocialProximity.getLocalInfo ()`

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

Returns

The local info or null

6.17.3.6 `Map<String, Integer> com.copelabs.oiframework.socialproximity.SocialProximity.getSWList (ArrayList< String > mDevices)`

This method provides a list of social weights for forwarding decisions. `mDevices` The list of devices to get the SW.

Returns

`swList` The list of social weights.

6.17.3.7 `int com.copelabs.oiframework.socialproximity.SocialProximity.getTimeSlot ()`

This method provides the current time slot.

Returns

`currentTimeSlot` The actual time slot.

6.17.3.8 void com.copelabs.oiframework.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

6.17.3.9 boolean com.copelabs.oiframework.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

6.17.3.10 void com.copelabs.oiframework.socialproximity.SocialProximity.notifyDataBaseChange () [private]

This method notifies a database change to the listeners.

6.17.3.11 void com.copelabs.oiframework.socialproximity.SocialProximity.notifyNewDeviceEntry ()

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

6.17.3.12 void com.copelabs.oiframework.socialproximity.SocialProximity.notifySWListUpdate ()

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

6.17.3.13 void com.copelabs.oiframework.socialproximity.SocialProximity.setNewHourAlarm () [private]

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

6.17.3.14 void com.copelabs.oiframework.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
-----------------	--------------------------

6.17.3.15 void com.copelabs.oiframework.socialproximity.SocialProximity.stop ()

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

6.17.4 Member Data Documentation

- 6.17.4.1 `PendingIntent com.copelabs.oiframework.socialproximity.SocialProximity.alarmIntent` [private]
- 6.17.4.2 `AlarmManager com.copelabs.oiframework.socialproximity.SocialProximity.alarmMgr` [private]
- 6.17.4.3 `boolean com.copelabs.oiframework.socialproximity.SocialProximity.appRestarted = false` [static]
- 6.17.4.4 `ServiceBTListener com.copelabs.oiframework.socialproximity.SocialProximity.btListener` [private]
- 6.17.4.5 `Context com.copelabs.oiframework.socialproximity.SocialProximity.context` [private]
- 6.17.4.6 `DataBase com.copelabs.oiframework.socialproximity.SocialProximity.database` [private]
- 6.17.4.7 `final String com.copelabs.oiframework.socialproximity.SocialProximity.DATABASE_CHANGE = "com.social.proximity.CHANGE"` [static]
- 6.17.4.8 `boolean com.copelabs.oiframework.socialproximity.SocialProximity.debug = true` [static], [private]
- 6.17.4.9 `ArrayList<SocialProximityListener> com.copelabs.oiframework.socialproximity.SocialProximity.listeners = new ArrayList<SocialProximityListener> ()`
- 6.17.4.10 `BluetoothManager com.copelabs.oiframework.socialproximity.SocialProximity.myBTManager` [private]
- 6.17.4.11 `OnSocialWeightUpdate com.copelabs.oiframework.socialproximity.SocialProximity.newHour` [private]
- 6.17.4.12 `final String com.copelabs.oiframework.socialproximity.SocialProximity.TAG = "Social Proximity"` [static], [private]

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

- [src/com/copelabs/oiframework/socialproximity/SocialProximity.java](#)

6.18 com.copelabs.oiframework.socialproximity.SocialProximityListener Interface Reference

Public Member Functions

- void [notifySWListUpdate](#) ()
- void [notifyNewDeviceEntry](#) ()

6.18.1 Detailed Description

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)

6.18.2 Member Function Documentation

6.18.2.1 void com.copelabs.oiframework.socialproximity.SocialProximityListener.notifyNewDeviceEntry ()

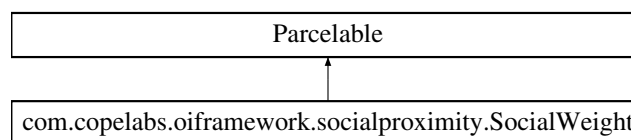
6.18.2.2 void com.copelabs.oiframework.socialproximity.SocialProximityListener.notifySWListUpdate ()

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

- src/com/copelabs/oiframework/socialproximity/[SocialProximityListener.java](#)

6.19 com.copelabs.oiframework.socialproximity.SocialWeight Class Reference

Inheritance diagram for com.copelabs.oiframework.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](#)

6.19.1 Detailed Description

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)

6.19.2 Constructor & Destructor Documentation

6.19.2.1 `com.copelabs.oiframework.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.

6.19.2.2 `com.copelabs.oiframework.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.
---------------	--

6.19.3 Member Function Documentation

6.19.3.1 `int com.copelabs.oiframework.socialproximity.SocialWeight.describeContents ()`

6.19.3.2 `String com.copelabs.oiframework.socialproximity.SocialWeight.getDeviceName ()`

This method gets the device's name.

6.19.3.3 `String com.copelabs.oiframework.socialproximity.SocialWeight.getMacAddress ()`

This method gets the device's MAC address.

6.19.3.4 `double com.copelabs.oiframework.socialproximity.SocialWeight.getSocialWeight ()`

This method gets the device's social weight.

6.19.3.5 `void com.copelabs.oiframework.socialproximity.SocialWeight.setDeviceName (String mDeviceName)`

This method sets the device's name.

Parameters

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

6.19.3.6 void com.copelabs.oiframework.socialproximity.SocialWeight.setMacAddress (String mMacAddress)

This method sets the device's MAC address.

Parameters

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

6.19.3.7 void com.copelabs.oiframework.socialproximity.SocialWeight.setSocialWeight (long mSocialWeight)

This method sets the device's social weight.

Parameters

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

6.19.3.8 void com.copelabs.oiframework.socialproximity.SocialWeight.writeToParcel (Parcel dest, int flags)

6.19.4 Member Data Documentation

6.19.4.1 final Creator com.copelabs.oiframework.socialproximity.SocialWeight.CREATOR

Initial value:

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

6.19.4.2 String com.copelabs.oiframework.socialproximity.SocialWeight.mDeviceName [private]

6.19.4.3 String com.copelabs.oiframework.socialproximity.SocialWeight.mMacAddress [private]

6.19.4.4 double com.copelabs.oiframework.socialproximity.SocialWeight.mSocialWeight [private]

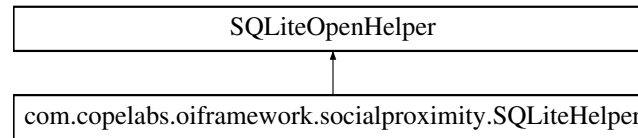
6.19.4.5 final String com.copelabs.oiframework.socialproximity.SocialWeight.socialWeight_key = "socialReceiver" [static]

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

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

6.20 com.copelabs.oiframework.socialproximity.SQLiteHelper Class Reference

Inheritance diagram for com.copelabs.oiframework.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](#)

6.20.1 Detailed Description

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)

6.20.2 Constructor & Destructor Documentation

6.20.2.1 `com.copelabs.oiframework.socialproximity.SQLiteHelper.SQLiteHelper (Context context)`

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

Parameters

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

6.20.3 Member Function Documentation

6.20.3.1 `void com.copelabs.oiframework.socialproximity.SQLiteHelper.onCreate (SQLiteDatabase dataBase)`

6.20.3.2 `void com.copelabs.oiframework.socialproximity.SQLiteHelper.onUpgrade (SQLiteDatabase dataBase, int oldVersion, int newVersion)`

6.20.4 Member Data Documentation

6.20.4.1 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT1 = "devAvgEncounterDuration_slot1" [static]`

6.20.4.2 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_SLOT10 = "devAvgEncounterDuration_slot10" [static]`

- 6.20.4.3 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_←
_SLOT11 = "devAvgEncounterDuration_slot11" [static]`
- 6.20.4.4 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_←
_SLOT12 = "devAvgEncounterDuration_slot12" [static]`
- 6.20.4.5 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_←
_SLOT13 = "devAvgEncounterDuration_slot13" [static]`
- 6.20.4.6 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_←
_SLOT14 = "devAvgEncounterDuration_slot14" [static]`
- 6.20.4.7 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_←
_SLOT15 = "devAvgEncounterDuration_slot15" [static]`
- 6.20.4.8 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_←
_SLOT16 = "devAvgEncounterDuration_slot16" [static]`
- 6.20.4.9 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_←
_SLOT17 = "devAvgEncounterDuration_slot17" [static]`
- 6.20.4.10 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT18 = "devAvgEncounterDuration_slot18" [static]`
- 6.20.4.11 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT19 = "devAvgEncounterDuration_slot19" [static]`
- 6.20.4.12 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT2 = "devAvgEncounterDuration_slot2" [static]`
- 6.20.4.13 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT20 = "devAvgEncounterDuration_slot20" [static]`
- 6.20.4.14 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT21 = "devAvgEncounterDuration_slot21" [static]`
- 6.20.4.15 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT22 = "devAvgEncounterDuration_slot22" [static]`
- 6.20.4.16 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT23 = "devAvgEncounterDuration_slot23" [static]`
- 6.20.4.17 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT24 = "devAvgEncounterDuration_slot24" [static]`
- 6.20.4.18 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT3 = "devAvgEncounterDuration_slot3" [static]`
- 6.20.4.19 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT4 = "devAvgEncounterDuration_slot4" [static]`
- 6.20.4.20 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT5 = "devAvgEncounterDuration_slot5" [static]`
- 6.20.4.21 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATIO←
N_SLOT6 = "devAvgEncounterDuration_slot6" [static]`

- 6.20.4.22 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_N_SLOT7 = "devAvgEncounterDuration_slot7" [static]`↔
- 6.20.4.23 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_N_SLOT8 = "devAvgEncounterDuration_slot8" [static]`↔
- 6.20.4.24 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_AVGENCOUNTERDURATION_N_SLOT9 = "devAvgEncounterDuration_slot9" [static]`↔
- 6.20.4.25 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT1 = "devEncounterDuration_slot1" [static]`↔
- 6.20.4.26 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT10 = "devEncounterDuration_slot10" [static]`↔
- 6.20.4.27 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT11 = "devEncounterDuration_slot11" [static]`↔
- 6.20.4.28 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT12 = "devEncounterDuration_slot12" [static]`↔
- 6.20.4.29 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT13 = "devEncounterDuration_slot13" [static]`↔
- 6.20.4.30 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT14 = "devEncounterDuration_slot14" [static]`↔
- 6.20.4.31 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT15 = "devEncounterDuration_slot15" [static]`↔
- 6.20.4.32 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT16 = "devEncounterDuration_slot16" [static]`↔
- 6.20.4.33 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT17 = "devEncounterDuration_slot17" [static]`↔
- 6.20.4.34 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT18 = "devEncounterDuration_slot18" [static]`↔
- 6.20.4.35 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT19 = "devEncounterDuration_slot19" [static]`↔
- 6.20.4.36 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT2 = "devEncounterDuration_slot2" [static]`↔
- 6.20.4.37 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT20 = "devEncounterDuration_slot20" [static]`↔
- 6.20.4.38 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT21 = "devEncounterDuration_slot21" [static]`↔
- 6.20.4.39 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT22 = "devEncounterDuration_slot22" [static]`↔
- 6.20.4.40 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT23 = "devEncounterDuration_slot23" [static]`↔

- 6.20.4.41 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT24 = "devEncounterDuration_slot24" [static]
- 6.20.4.42 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT3 = "devEncounterDuration_slot3" [static]
- 6.20.4.43 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT4 = "devEncounterDuration_slot4" [static]
- 6.20.4.44 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT5 = "devEncounterDuration_slot5" [static]
- 6.20.4.45 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT6 = "devEncounterDuration_slot6" [static]
- 6.20.4.46 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT7 = "devEncounterDuration_slot7" [static]
- 6.20.4.47 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT8 = "devEncounterDuration_slot8" [static]
- 6.20.4.48 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERDURATION_SLOT9 = "devEncounterDuration_slot9" [static]
- 6.20.4.49 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_ENCOUNTERSTART = "devEncounterStart" [static]
- 6.20.4.50 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_MAC_ADDRESS = "devBtMacAdd" [static]
- 6.20.4.51 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_NAME = "devName" [static]
- 6.20.4.52 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT1 = "devSocialWeight_slot1" [static]
- 6.20.4.53 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT10 = "devSocialWeight_slot10" [static]
- 6.20.4.54 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT11 = "devSocialWeight_slot11" [static]
- 6.20.4.55 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT12 = "devSocialWeight_slot12" [static]
- 6.20.4.56 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT13 = "devSocialWeight_slot13" [static]
- 6.20.4.57 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT14 = "devSocialWeight_slot14" [static]
- 6.20.4.58 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT15 = "devSocialWeight_slot15" [static]
- 6.20.4.59 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT16 = "devSocialWeight_slot16" [static]

```

6.20.4.60 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT17 =
        "devSocialWeight_slot17" [static]

6.20.4.61 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT18 =
        "devSocialWeight_slot18" [static]

6.20.4.62 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT19 =
        "devSocialWeight_slot19" [static]

6.20.4.63 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT2 =
        "devSocialWeight_slot2" [static]

6.20.4.64 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT20 =
        "devSocialWeight_slot20" [static]

6.20.4.65 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT21 =
        "devSocialWeight_slot21" [static]

6.20.4.66 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT22 =
        "devSocialWeight_slot22" [static]

6.20.4.67 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT23 =
        "devSocialWeight_slot23" [static]

6.20.4.68 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT24 =
        "devSocialWeight_slot24" [static]

6.20.4.69 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT3 =
        "devSocialWeight_slot3" [static]

6.20.4.70 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT4 =
        "devSocialWeight_slot4" [static]

6.20.4.71 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT5 =
        "devSocialWeight_slot5" [static]

6.20.4.72 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT6 =
        "devSocialWeight_slot6" [static]

6.20.4.73 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT7 =
        "devSocialWeight_slot7" [static]

6.20.4.74 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT8 =
        "devSocialWeight_slot8" [static]

6.20.4.75 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_BTDEV_SOCIALWEIGHT_SLOT9 =
        "devSocialWeight_slot9" [static]

6.20.4.76 final String com.copelabs.oiframework.socialproximity.SQLiteHelper.COLUMN_ID = "_id" [static]

6.20.4.77 final String com.copelabs.oiframework.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"
+ ");"
```

6.20.4.78 final String com.copelabs.oiframework.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"
+ ");"
```

6.20.4.79 final String com.copelabs.oiframework.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"
+ ");"

```

6.20.4.80 final String com.copelabs.oiframework.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"
+ ");"

```

- 6.20.4.81 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.DATABASE_NAME = "database" [static], [private]`
- 6.20.4.82 `final int com.copelabs.oiframework.socialproximity.SQLiteHelper.DATABASE_VERSION = 2 [static], [private]`
- 6.20.4.83 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.TABLE_BTDEVICE = "btdevices" [static]`
- 6.20.4.84 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.TABLE_BTDEVICEAVERAGEENCOUNTERDURATION = "btdevice_averageencounterduration" [static]`
- 6.20.4.85 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.TABLE_BTDEVICEENCOUNTERDURATION = "btdevice_encounterduration" [static]`
- 6.20.4.86 `final String com.copelabs.oiframework.socialproximity.SQLiteHelper.TABLE_BTDEVICESOCIALWEIGHT = "btdevice_socialweight" [static]`

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

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

6.21 com.copelabs.oiframework.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]

6.21.1 Detailed Description

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)

6.21.2 Constructor & Destructor Documentation

6.21.2.1 `com.copelabs.oiframework.socialproximity.UserDevAverageEncounterDuration.UserDevAverageEncounterDuration ()`

BT User Device Average Encounter Duration Constructor

6.21.3 Member Function Documentation

6.21.3.1 `double com.copelabs.oiframework.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.

6.21.3.2 `String com.copelabs.oiframework.socialproximity.UserDevAverageEncounterDuration.getDevAdd ()`

This method gets the MAC address of this Bluetooth device.

Returns

deviceAdd The device address to be used as key.

6.21.3.3 `void com.copelabs.oiframework.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.

6.21.3.4 `void com.copelabs.oiframework.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.
---------------	-----------------------------------

6.21.4 Member Data Documentation

6.21.4.1 `double [] com.copelabs.oiframework.socialproximity.UserDevAverageEncounterDuration.averageEncounterDuration = new double [24] [private]`

6.21.4.2 `String com.copelabs.oiframework.socialproximity.UserDevAverageEncounterDuration.deviceAdd [private]`

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

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

6.22 com.copelabs.oiframework.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]

6.22.1 Detailed Description

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)

6.22.2 Constructor & Destructor Documentation

6.22.2.1 com.copelabs.oiframework.socialproximity.UserDevEncounterDuration.UserDevEncounterDuration ()

BT User Device Encounter Duration Constructor

6.22.3 Member Function Documentation

6.22.3.1 String com.copelabs.oiframework.socialproximity.UserDevEncounterDuration.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.oiframework.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.

6.22.3.3 void com.copelabs.oiframework.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.
---------------	-----------------------------------

6.22.3.4 void com.copelabs.oiframework.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.

6.22.4 Member Data Documentation

6.22.4.1 String com.copelabs.oiframework.socialproximity.UserDevEncounterDuration.deviceAdd [private]

6.22.4.2 double [] com.copelabs.oiframework.socialproximity.UserDevEncounterDuration.encounterDuration = new double [24] [private]

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

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

6.23 com.copelabs.oiframework.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](#)

6.23.1 Detailed Description

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, time of first encounter, time spent in the vicinity (i.e., total time within communication range).

Author

Waldir Moreira (COPELABS/ULHT)

6.23.2 Constructor & Destructor Documentation

6.23.2.1 com.copelabs.oiframework.socialproximity.UserDeviceInfo.UserDeviceInfo ()

Bluetooth User Device Constructor

6.23.3 Member Function Documentation

6.23.3.1 String com.copelabs.oiframework.socialproximity.UserDeviceInfo.getDevAdd ()

This method gets the MAC address of this Bluetooth device.

Returns

deviceAdd The device address.

6.23.3.2 String com.copelabs.oiframework.socialproximity.UserDeviceInfo.getDevName ()

This method gets the name of this Bluetooth device.

Returns

deviceName The device name.

6.23.3.3 long com.copelabs.oiframework.socialproximity.UserDeviceInfo.getEncounterStart ()

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

Parameters

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

6.23.3.4 void com.copelabs.oiframework.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.
---------------	-----------------------------------

6.23.3.5 void com.copelabs.oiframework.socialproximity.UserDeviceInfo.setDevName (String *DevName*)

This method sets the name of this Bluetooth device.

Parameters

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

6.23.3.6 void com.copelabs.oiframework.socialproximity.UserDeviceInfo.setEncounterTime (long *time*)

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

Parameters

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

6.23.4 Member Data Documentation

6.23.4.1 String com.copelabs.oiframework.socialproximity.UserDeviceInfo.deviceAdd [private]

6.23.4.2 String com.copelabs.oiframework.socialproximity.UserDeviceInfo.deviceName [private]

6.23.4.3 long com.copelabs.oiframework.socialproximity.UserDeviceInfo.encounterTime [private]

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

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

6.24 com.copelabs.oiframework.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]

6.24.1 Detailed Description

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)

6.24.2 Constructor & Destructor Documentation

6.24.2.1 com.copelabs.oiframework.socialproximity.UserDevSocialWeight.UserDevSocialWeight ()

BT User Device Social Weight Constructor

6.24.3 Member Function Documentation

6.24.3.1 String com.copelabs.oiframework.socialproximity.UserDevSocialWeight.getDevAdd ()

This method gets the MAC address of this Bluetooth device.

Returns

deviceAdd The device address to be used as key.

6.24.3.2 double com.copelabs.oiframework.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.

6.24.3.3 void com.copelabs.oiframework.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.
---------------	-----------------------------------

6.24.3.4 void com.copelabs.oiframework.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.

6.24.4 Member Data Documentation

6.24.4.1 String com.copelabs.oiframework.socialproximity.UserDevSocialWeight.deviceAdd [private]

```
6.24.4.2 double [] com.copelabs.oiframework.socialproximity.UserDevSocialWeight.socialWeight = new double [24]
[private]
```

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

- [src/com/copelabs/oiframework/socialproximity/UserDevSocialWeight.java](#)

6.25 com.copelabs.oiframework.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 [getWiFiDirectMacAddress](#) ()
- 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](#)

6.25.1 Detailed Description

An activity that uses WiFi Direct APIs to discover and connect with available devices. WiFi Direct APIs are asynchronous and rely on callback mechanism using interfaces to notify the application of operation success or failure. The application should also register a BroadcastReceiver for notification of WiFi state related events.

6.25.2 Constructor & Destructor Documentation

6.25.2.1 com.copelabs.oiframework.wifi.WiFiDirect.WiFiDirect (Context *mContext*)

6.25.3 Member Function Documentation

6.25.3.1 String com.copelabs.oiframework.wifi.WiFiDirect.getWiFiDirectMacAddress ()

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

6.25.3.2 String com.copelabs.oiframework.wifi.WifiDirect.getWifiMacAddress ()

Get the MAC address of WiFi interface.

Returns

WiFi MAC address

6.25.3.3 void com.copelabs.oiframework.wifi.WifiDirect.resetAvailableDevices ()

6.25.3.4 boolean com.copelabs.oiframework.wifi.WifiDirect.sendPackets (WifiDirectDevice mDevice, ArrayList< Packet > mPackets)

6.25.3.5 void com.copelabs.oiframework.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
-----------------	----------------------

6.25.3.6 void com.copelabs.oiframework.wifi.WifiDirect.start (String mMAC, Map< String, String > mListOfSocialWeight)

6.25.3.7 void com.copelabs.oiframework.wifi.WifiDirect.stop ()

6.25.3.8 void com.copelabs.oiframework.wifi.WifiDirect.updateAnnounce (String mMAC, Map< String, String > mListOfSocialWeight)

6.25.4 Member Data Documentation

6.25.4.1 ArrayList<WifiDirectListener> com.copelabs.oiframework.wifi.WifiDirect.listeners = new ArrayList<WifiDirectListener> ()

6.25.4.2 WifiDirectUtils com.copelabs.oiframework.wifi.WifiDirect.mWifiDirectUtils [private]

6.25.4.3 final String com.copelabs.oiframework.wifi.WifiDirect.TAG = "wifidirect" [static]

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

- src/com/copelabs/oiframework/wifi/[WifiDirect.java](#)

6.26 com.copelabs.oiframework.wifi.WifiDirectAutoAccept Class Reference

Classes

- class [DialogListenerProxy](#)

Public Member Functions

- [WifiDirectAutoAccept](#) ([WifiDirectUtils](#) callback, [WifiP2pManager](#) manager, [WifiP2pManager.Channel](#) channel)
- [WifiDirectAutoAccept](#) (Context context, [WifiDirectUtils](#) callback)
- void [intercept](#) (boolean enable)

Static Public Attributes

- static final String `TAG` = "WifiDirectAutoAccept"

Private Member Functions

- Object `newDialogListener` ()
- void `setDialogListener` (Object listener)

Private Attributes

- WifiP2pManager `manager`
- WifiP2pManager.Channel `channel`
- `WifiDirectUtils` `callback`
- Object `dialogListener`
- Class< ? > `dialogInterface` = null
- Method `dialogListenerMethod` = null

6.26.1 Detailed Description

Automatic approval of push-button WiFi Direct group formation.

While this object is intercepting approval requests and this application is in the foreground, the user will not see dialogs from the WifiP2p subsystem. It's recommended to only intercept requests when the application is expecting incoming group requests. Group requests with PIN values are ignored and no user prompt will appear.

This class will build for Android API 15 and later, but the DialogListener interface was added in API 16. It is safe to create objects of this class and call its public methods in API 15, but no dialogs will be intercepted in that case.

6.26.2 Constructor & Destructor Documentation

6.26.2.1 `com.copelabs.oiframework.wifi.WifiDirectAutoAccept.WifiDirectAutoAccept (WifiDirectUtils callback, WifiP2pManager manager, WifiP2pManager.Channel channel)`

Construct a `WifiDirectAutoAccept` object using the application's existing manager and channel.

6.26.2.2 `com.copelabs.oiframework.wifi.WifiDirectAutoAccept.WifiDirectAutoAccept (Context context, WifiDirectUtils callback)`

Construct a `WifiDirectAutoAccept` object with automatically created manager and channel objects for the given context.

6.26.3 Member Function Documentation

6.26.3.1 `void com.copelabs.oiframework.wifi.WifiDirectAutoAccept.intercept (boolean enable)`

Enable or disable interception of Wifi Direct group formation requests.

A user of this object should make sure to call `intercept(false)` before deleting the object, otherwise the internal dialog listener object will remain registered until the app goes in to the background.

6.26.3.2 Object com.copelabs.oiframework.wifi.WifiDirectAutoAccept.newDialogListener () [private]

Creating a new [DialogListenerProxy](#) object that also inherits the DialogListener interface.

The caller does not need to have any awareness of the DialogListener interface.

Returns null if the object could not be created. This can happen if the DialogListener interface is not available at runtime.

6.26.3.3 void com.copelabs.oiframework.wifi.WifiDirectAutoAccept.setDialogListener (Object listener) [private]

Call WifiP2pManager.setDialogListener() using reflection.

Passing null for the listener parameter will deregister any previous listener and cause the WiFi P2P framework to revert to system handling of P2P group formation.

If the method is not available at runtime, no action is taken.

WifiP2pManager.setDialogListener() exists in Android API 16, but not in earlier APIs.

6.26.4 Member Data Documentation

6.26.4.1 WiFiDirectUtils com.copelabs.oiframework.wifi.WifiDirectAutoAccept.callback [private]

6.26.4.2 WifiP2pManager.Channel com.copelabs.oiframework.wifi.WifiDirectAutoAccept.channel [private]

6.26.4.3 Class< ? > com.copelabs.oiframework.wifi.WifiDirectAutoAccept.dialogInterface = null [private]

6.26.4.4 Object com.copelabs.oiframework.wifi.WifiDirectAutoAccept.dialogListener [private]

6.26.4.5 Method com.copelabs.oiframework.wifi.WifiDirectAutoAccept.dialogListenerMethod = null [private]

6.26.4.6 WifiP2pManager com.copelabs.oiframework.wifi.WifiDirectAutoAccept.manager [private]

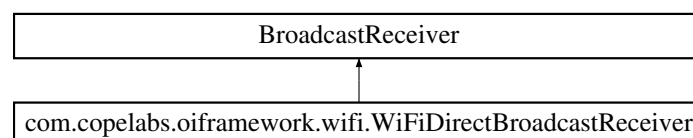
6.26.4.7 final String com.copelabs.oiframework.wifi.WifiDirectAutoAccept.TAG = "WifiDirectAutoAccept" [static]

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

- [src/com/copelabs/oiframework/wifi/WifiDirectAutoAccept.java](#)

6.27 com.copelabs.oiframework.wifi.WiFiDirectBroadcastReceiver Class Reference

Inheritance diagram for com.copelabs.oiframework.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](#)

6.27.1 Detailed Description

A BroadcastReceiver that notifies of important wifi p2p events.

6.27.2 Constructor & Destructor Documentation

6.27.2.1 `com.copelabs.oiframework.wifi.WiFiDirectBroadcastReceiver.WiFiDirectBroadcastReceiver (WifiP2pManager manager, Channel channel, WiFiDirectUtils mWiFiDirectUtils)`

Parameters

<i>manager</i>	WifiP2pManager system service
<i>channel</i>	Wifi p2p channel
<i>activity</i>	activity associated with the receiver

6.27.3 Member Function Documentation

6.27.3.1 `void com.copelabs.oiframework.wifi.WiFiDirectBroadcastReceiver.onReceive (Context context, Intent intent)`

6.27.4 Member Data Documentation

6.27.4.1 Channel `com.copelabs.oiframework.wifi.WiFiDirectBroadcastReceiver.channel` `[private]`

6.27.4.2 WifiP2pManager `com.copelabs.oiframework.wifi.WiFiDirectBroadcastReceiver.manager` `[private]`

6.27.4.3 [WiFiDirectUtils](#) `com.copelabs.oiframework.wifi.WiFiDirectBroadcastReceiver.mWiFiDirectUtils` `[private]`

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

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

6.28 com.copelabs.oiframework.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](#)

6.28.1 Detailed Description

A structure to hold service information.

6.28.2 Constructor & Destructor Documentation

6.28.2.1 `com.copelabs.oiframework.wifi.WiFiDirectDevice.WiFiDirectDevice ()`

6.28.3 Member Function Documentation

6.28.3.1 `WifiP2pDevice com.copelabs.oiframework.wifi.WiFiDirectDevice.getDevice ()`

6.28.3.2 `String com.copelabs.oiframework.wifi.WiFiDirectDevice.getInstanceName ()`

6.28.3.3 `long com.copelabs.oiframework.wifi.WiFiDirectDevice.getLastTimeSeen ()`

6.28.3.4 `String com.copelabs.oiframework.wifi.WiFiDirectDevice.getServiceRegistrationType ()`

6.28.3.5 `void com.copelabs.oiframework.wifi.WiFiDirectDevice.setDevice (WifiP2pDevice device)`

6.28.3.6 `void com.copelabs.oiframework.wifi.WiFiDirectDevice.setInstanceName (String instanceName)`

6.28.3.7 `void com.copelabs.oiframework.wifi.WiFiDirectDevice.setLastTimeSeen (long mTime)`

6.28.3.8 `void com.copelabs.oiframework.wifi.WiFiDirectDevice.setServiceRegistrationType (String serviceRegistrationType)`

6.28.4 Member Data Documentation

6.28.4.1 `WifiP2pDevice com.copelabs.oiframework.wifi.WiFiDirectDevice.device` [private]

6.28.4.2 `String com.copelabs.oiframework.wifi.WiFiDirectDevice.instanceName = null` [private]

6.28.4.3 `String com.copelabs.oiframework.wifi.WiFiDirectDevice.serviceRegistrationType = null` [private]

6.28.4.4 `long com.copelabs.oiframework.wifi.WiFiDirectDevice.TTL` [private]

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

- `src/com/copelabs/oiframework/wifi/WiFiDirectDevice.java`

6.29 com.copelabs.oiframework.wifi.WiFiDirectListener Interface Reference

Public Member Functions

- void [onPacketReceived](#) (List< [Packet](#) > mListOfPackets)

- void [onNewWiFiDirectDeviceFound](#) ([WiFiDirectDevice](#) mDevice, Map< String, String > mListOfSocialWeight)
- void [onWiFiDirectDeviceDisappear](#) ([WiFiDirectDevice](#) mDevice)
- void [error](#) (int mError)

6.29.1 Member Function Documentation

6.29.1.1 void [com.copelabs.oiframework.wifi.WiFiDirectListener.error](#) (int *mError*)

6.29.1.2 void [com.copelabs.oiframework.wifi.WiFiDirectListener.onNewWiFiDirectDeviceFound](#) ([WiFiDirectDevice](#) *mDevice*, Map< String, String > *mListOfSocialWeight*)

6.29.1.3 void [com.copelabs.oiframework.wifi.WiFiDirectListener.onPacketReceived](#) (List< [Packet](#) > *mListOfPackets*)

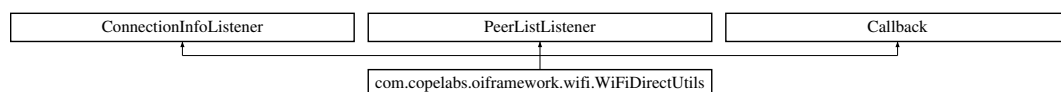
6.29.1.4 void [com.copelabs.oiframework.wifi.WiFiDirectListener.onWiFiDirectDeviceDisappear](#) ([WiFiDirectDevice](#) *mDevice*)

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

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

6.30 com.copelabs.oiframework.wifi.WiFiDirectUtils Class Reference

Inheritance diagram for com.copelabs.oiframework.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 [socket_port](#) = 4545
- 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 [startDiscoverPeers](#) ()
- void [checkNextPacketQueue](#) (String mDeviceMAC)
- void [connectP2p](#) (final String mDeviceMAC)
- void [disconnectP2p](#) ()
- void [notifyPacketReceived](#) (List< [Packet](#) > mListOfPackets)
- void [notifyOnNewWiFiDirectDeviceFound](#) ([WiFiDirectDevice](#) mDevice, Map< String, String > mListOf↵
SocialWeight)
- 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](#)
- [WifiDirectAutoAccept](#) [mAutoAccept](#)
- 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

6.30.1 Constructor & Destructor Documentation

6.30.1.1 `com.copelabs.oiframework.wifi.WiFiDirectUtils.WiFiDirectUtils (Context mContext, WiFiDirect mCallback)`

register the BroadcastReceiver with the intent values to be matched

6.30.2 Member Function Documentation

6.30.2.1 `void com.copelabs.oiframework.wifi.WiFiDirectUtils.checkNextPacketQueue (String mDeviceMAC) [private]`

6.30.2.2 `void com.copelabs.oiframework.wifi.WiFiDirectUtils.connectP2p (final String mDeviceMAC) [private]`

6.30.2.3 `void com.copelabs.oiframework.wifi.WiFiDirectUtils.dealWithConnectionEnded (boolean failed)`

6.30.2.4 `void com.copelabs.oiframework.wifi.WiFiDirectUtils.disconnectP2p () [private]`

6.30.2.5 `void com.copelabs.oiframework.wifi.WiFiDirectUtils.discoverService ()`

A new TXT record is available. Pick up the advertised buddy name.

6.30.2.6 `Handler com.copelabs.oiframework.wifi.WiFiDirectUtils.getHandler ()`

6.30.2.7 `boolean com.copelabs.oiframework.wifi.WiFiDirectUtils.getIsWifiP2pEnabled ()`

Parameters

<i>isWifiP2p↔ Enabled</i>	get isWifiP2pEnabled flag
-------------------------------	---------------------------

6.30.2.8 `String com.copelabs.oiframework.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

6.30.2.9 `String com.copelabs.oiframework.wifi.WiFiDirectUtils.getWifiMacAddress ()`

Get the MAC address of WiFi interface.

Returns

WiFi MAC address

6.30.2.10 boolean com.copelabs.oiframework.wifi.WiFiDirectUtils.handleMessage (Message *msg*)

6.30.2.11 void com.copelabs.oiframework.wifi.WiFiDirectUtils.initializeTimerTask (final String *mDeviceMAC*)

6.30.2.12 boolean com.copelabs.oiframework.wifi.WiFiDirectUtils.makeConnection (WiFiDirectDevice *mDevice*, ArrayList< Packet > *mPackets*)

6.30.2.13 void com.copelabs.oiframework.wifi.WiFiDirectUtils.notifyError (int *mError*) [private]

6.30.2.14 void com.copelabs.oiframework.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>	

6.30.2.15 void com.copelabs.oiframework.wifi.WiFiDirectUtils.notifyOnWiFiDirectDeviceDisappear (WiFiDirectDevice *mDevice*) [private]

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

Parameters

<i>mDevice</i>	Device found
<i>mListOfSocialWeight</i>	

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

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

Parameters

<i>mPacket</i>	Packet arrived
----------------	----------------

6.30.2.17 void com.copelabs.oiframework.wifi.WiFiDirectUtils.onConnectionInfoAvailable (WifiP2pInfo *p2pInfo*)

6.30.2.18 void com.copelabs.oiframework.wifi.WiFiDirectUtils.onPeersAvailable (WifiP2pDeviceList *peers*)

PeerListListener Receives all peers available by WiFi P2P.

Parameters

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

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

6.30.2.20 void com.copelabs.oiframework.wifi.WiFiDirectUtils.restartDiscovery ()

6.30.2.21 void com.copelabs.oiframework.wifi.WiFiDirectUtils.setHandler (Handler *handler*)

6.30.2.22 void com.copelabs.oiframework.wifi.WiFiDirectUtils.setIsWifiP2pEnabled (boolean *isWifiP2pEnabled*)

Parameters

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

6.30.2.23 void com.copelabs.oiframework.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.

6.30.2.24 void com.copelabs.oiframework.wifi.WiFiDirectUtils.startDiscoverPeers () [private]

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

Registers a local service and then initiates a service discovery

6.30.2.26 void com.copelabs.oiframework.wifi.WiFiDirectUtils.startTimer (String *mDeviceMAC*)

6.30.2.27 void com.copelabs.oiframework.wifi.WiFiDirectUtils.stop ()

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

6.30.2.28 void com.copelabs.oiframework.wifi.WiFiDirectUtils.stopTimer ()

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

6.30.2.30 void com.copelabs.oiframework.wifi.WiFiDirectUtils.wifiDisabled ()

6.30.2.31 void com.copelabs.oiframework.wifi.WiFiDirectUtils.wifiWasEnabled ()

6.30.3 Member Data Documentation

6.30.3.1 Channel com.copelabs.oiframework.wifi.WiFiDirectUtils.channel [private]

6.30.3.2 final int com.copelabs.oiframework.wifi.WiFiDirectUtils.EMPTY = 0x400 + 3 [static]

6.30.3.3 Map<String, String> com.copelabs.oiframework.wifi.WiFiDirectUtils.gListOfSocialWeight [private]

6.30.3.4 String com.copelabs.oiframework.wifi.WiFiDirectUtils.gMAC [private]

6.30.3.5 Handler com.copelabs.oiframework.wifi.WiFiDirectUtils.handler = new Handler(this) [private]

6.30.3.6 final IntentFilter com.copelabs.oiframework.wifi.WiFiDirectUtils.intentFilter = new IntentFilter() [private]

6.30.3.7 boolean com.copelabs.oiframework.wifi.WiFiDirectUtils.isWifiP2pEnabled = false [private]

6.30.3.8 final String com.copelabs.oiframework.wifi.WiFiDirectUtils.KEY_MAC = "key_mac" [static]

- 6.30.3.9 `WifiP2pManager` `com.copelabs.oiframework.wifi.WiFiDirectUtils.manager` [private]
- 6.30.3.10 `WifiDirectAutoAccept` `com.copelabs.oiframework.wifi.WiFiDirectUtils.mAutoAccept` [private]
- 6.30.3.11 `ArrayList<WifiDirectDevice>` `com.copelabs.oiframework.wifi.WiFiDirectUtils.mAvailableDevices = new ArrayList<WifiDirectDevice>()`
- 6.30.3.12 `WifiDirect` `com.copelabs.oiframework.wifi.WiFiDirectUtils.mCallback` [private]
- 6.30.3.13 `Context` `com.copelabs.oiframework.wifi.WiFiDirectUtils.mContext` [private]
- 6.30.3.14 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.MESSAGE_READ = 0x400 + 1` [static]
- 6.30.3.15 `String` `com.copelabs.oiframework.wifi.WiFiDirectUtils.mSendingToDevice` [private]
- 6.30.3.16 `String` `com.copelabs.oiframework.wifi.WiFiDirectUtils.mThisDeviceMACP2p`
- 6.30.3.17 `Map<String, List<Packet> >` `com.copelabs.oiframework.wifi.WiFiDirectUtils.mToSend = new HashMap<String, List<Packet>>()` [private]
- 6.30.3.18 `BroadcastReceiver` `com.copelabs.oiframework.wifi.WiFiDirectUtils.receiver = null` [private]
- 6.30.3.19 `WifiP2pDnsSdServiceInfo` `com.copelabs.oiframework.wifi.WiFiDirectUtils.service` [private]
- 6.30.3.20 `final String` `com.copelabs.oiframework.wifi.WiFiDirectUtils.SERVICE_INSTANCE = "_oiframework"` [static]
- 6.30.3.21 `final String` `com.copelabs.oiframework.wifi.WiFiDirectUtils.SERVICE_REG_TYPE = "_presence_tcp"` [static]
- 6.30.3.22 `WifiP2pDnsSdServiceRequest` `com.copelabs.oiframework.wifi.WiFiDirectUtils.serviceRequest` [private]
- 6.30.3.23 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.socket_port = 4545` [static]
- 6.30.3.24 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.SOCKETERROR = 0x400 + 2` [static]
- 6.30.3.25 `Timer` `com.copelabs.oiframework.wifi.WiFiDirectUtils.timer` [private]
- 6.30.3.26 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.TIMER_IDLE = 1` [static], [private]
- 6.30.3.27 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.TIMER_RUNNING = 2` [static], [private]
- 6.30.3.28 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.TIMER_SCHEDULED = 0` [static], [private]
- 6.30.3.29 `int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.TimerStatus = TIMER_IDLE` [private]
- 6.30.3.30 `TimerTask` `com.copelabs.oiframework.wifi.WiFiDirectUtils.timerTask` [private]
- 6.30.3.31 `Map<String, String>` `com.copelabs.oiframework.wifi.WiFiDirectUtils.txtRecordMapReceived` [private]
- 6.30.3.32 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.WIFI_CONNECTED = 2` [static]
- 6.30.3.33 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.WIFI_CONNECTING = 1` [static]
- 6.30.3.34 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.WIFI_DISCONNECTED = 3` [static]
- 6.30.3.35 `final int` `com.copelabs.oiframework.wifi.WiFiDirectUtils.WIFI_IDLE = 0` [static]

6.30.3.36 `int com.copelabs.oiframework.wifi.WiFiDirectUtils.WiFiStatus = WIFI_IDLE`

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

- `src/com/copelabs/oiframework/wifi/WiFiDirectUtils.java`

6.31 `com.copelabs.oiframework.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`

6.31.1 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

6.31.2 Member Function Documentation

6.31.2.1 `List<Packet> com.copelabs.oiframework.contentmanager.XmlPullParserHandler.getOiMessages ()`

6.31.2.2 `List<Packet> com.copelabs.oiframework.contentmanager.XmlPullParserHandler.parse (InputStream is)`

Parameters

<i>is</i>	Parses messages stored in an xml file descriptor is
-----------	---

Returns

6.31.3 Member Data Documentation

6.31.3.1 `String com.copelabs.oiframework.contentmanager.XmlPullParserHandler.mTagContent` `[private]`

6.31.3.2 **Packet** com.copelabs.oiframework.contentmanager.XmlPullParserHandler.OiMessage [private]

6.31.3.3 **List<Packet>** com.copelabs.oiframework.contentmanager.XmlPullParserHandler.OiMessages = new
ArrayList<Packet>() [private]

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

- src/com/copelabs/oiframework/contentmanager/[XmlPullParserHandler.java](#)

Chapter 7

File Documentation

7.1 `src/com/copelabs/oiframework/bt/BluetoothManager.java` File Reference

Classes

- class [com.copelabs.oiframework.bt.BluetoothManager](#)
- class **com.copelabs.oiframework.bt.BluetoothManager.FindBluetoothDevice**
- class **com.copelabs.oiframework.bt.BluetoothManager.adapterBroadcastReceiver**

Packages

- package [com.copelabs.oiframework.bt](#)

7.2 `src/com/copelabs/oiframework/bt/BTDeviceFinder.java` File Reference

Classes

- interface [com.copelabs.oiframework.bt.BTDeviceFinder](#)

Packages

- package [com.copelabs.oiframework.bt](#)

7.3 `src/com/copelabs/oiframework/contentmanager/CleanTask.java` File Reference

Classes

- class [com.copelabs.oiframework.contentmanager.CleanTask](#)

Packages

- package [com.copelabs.oiframework.contentmanager](#)

7.4 `src/com/copelabs/oiframework/contentmanager/ContentManager.java` File Reference

Classes

- class [com.copelabs.oiframework.contentmanager.ContentManager](#)

Packages

- package [com.copelabs.oiframework.contentmanager](#)

7.5 `src/com/copelabs/oiframework/contentmanager/FileIO.java` File Reference

Classes

- class [com.copelabs.oiframework.contentmanager.FileIO](#)

Packages

- package [com.copelabs.oiframework.contentmanager](#)

7.6 `src/com/copelabs/oiframework/contentmanager/Packet.java` File Reference

Item corresponds to the object messages sent by Oi.

Classes

- class [com.copelabs.oiframework.contentmanager.Packet](#)

Packages

- package [com.copelabs.oiframework.contentmanager](#)

7.6.1 Detailed Description

Item corresponds to the object messages sent by Oi.

COPELABS - Oi!

Author

Rute Sofia (COPELABS/ULHT)

Date

20/05/2015

•

Version

v1.0 - pre-prototype

7.7 src/com/copelabs/oiframework/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.oiframework.contentmanager.XMLPullParserHandler](#)

Packages

- package [com.copelabs.oiframework.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/oiframework/router/Router.java File Reference

Classes

- class [com.copelabs.oiframework.router.Router](#)

Packages

- package [com.copelabs.oiframework.router](#)

7.9 src/com/copelabs/oiframework/router/RouterListener.java File Reference

Classes

- interface [com.copelabs.oiframework.router.RouterListener](#)

Packages

- package [com.copelabs.oiframework.router](#)

7.10 [src/com/copelabs/oiframework/socialproximity/DataBase.java](#) File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.DataBase](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.11 [src/com/copelabs/oiframework/socialproximity/DataBaseChangeListener.java](#) File Reference

Classes

- interface [com.copelabs.oiframework.socialproximity.DataBaseChangeListener](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.12 [src/com/copelabs/oiframework/socialproximity/OnSocialWeightUpdate.java](#) File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.OnSocialWeightUpdate](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.13 [src/com/copelabs/oiframework/socialproximity/package-info.java](#) File Reference

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.14 [src/com/copelabs/oiframework/socialproximity/SocialProximity.java](#) File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.SocialProximity](#)
- class [com.copelabs.oiframework.socialproximity.SocialProximity.CustomComparator](#)
- class [com.copelabs.oiframework.socialproximity.SocialProximity.ServiceBTListener](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.15 src/com/copelabs/oiframework/socialproximity/SocialProximityListener.java File Reference

Classes

- interface [com.copelabs.oiframework.socialproximity.SocialProximityListener](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.16 src/com/copelabs/oiframework/socialproximity/SocialWeight.java File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.SocialWeight](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.17 src/com/copelabs/oiframework/socialproximity/SQLiteHelper.java File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.SQLiteHelper](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.18 src/com/copelabs/oiframework/socialproximity/UserDevAverageEncounterDuration.java File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.UserDevAverageEncounterDuration](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.19 [src/com/copelabs/oiframework/socialproximity/UserDevEncounterDuration.java](#) File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.UserDevEncounterDuration](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.20 [src/com/copelabs/oiframework/socialproximity/UserDeviceInfo.java](#) File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.UserDeviceInfo](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.21 [src/com/copelabs/oiframework/socialproximity/UserDevSocialWeight.java](#) File Reference

Classes

- class [com.copelabs.oiframework.socialproximity.UserDevSocialWeight](#)

Packages

- package [com.copelabs.oiframework.socialproximity](#)

7.22 [src/com/copelabs/oiframework/wifi/ClientSocketHandler.java](#) File Reference

Classes

- class [com.copelabs.oiframework.wifi.ClientSocketHandler](#)

Packages

- package [com.copelabs.oiframework.wifi](#)

7.23 [src/com/copelabs/oiframework/wifi/SendData.java](#) File Reference

Classes

- class [com.copelabs.oiframework.wifi.SendData](#)

Packages

- package [com.copelabs.oiframework.wifi](#)

7.24 src/com/copelabs/oiframework/wifi/ServerThread.java File Reference

Classes

- class [com.copelabs.oiframework.wifi.ServerThread](#)

Packages

- package [com.copelabs.oiframework.wifi](#)

7.25 src/com/copelabs/oiframework/wifi/WiFiDirect.java File Reference

Classes

- class [com.copelabs.oiframework.wifi.WiFiDirect](#)

Packages

- package [com.copelabs.oiframework.wifi](#)

7.26 src/com/copelabs/oiframework/wifi/WifiDirectAutoAccept.java File Reference

Classes

- class [com.copelabs.oiframework.wifi.WifiDirectAutoAccept](#)
- class [com.copelabs.oiframework.wifi.WifiDirectAutoAccept.DialogListenerProxy](#)

Packages

- package [com.copelabs.oiframework.wifi](#)

7.27 src/com/copelabs/oiframework/wifi/WiFiDirectBroadcastReceiver.java File Reference

Classes

- class [com.copelabs.oiframework.wifi.WiFiDirectBroadcastReceiver](#)

Packages

- package [com.copelabs.oiframework.wifi](#)

7.28 `src/com/copelabs/oiframework/wifi/WiFiDirectDevice.java` File Reference

Classes

- class [com.copelabs.oiframework.wifi.WiFiDirectDevice](#)

Packages

- package [com.copelabs.oiframework.wifi](#)

7.29 `src/com/copelabs/oiframework/wifi/WiFiDirectListener.java` File Reference

Classes

- interface [com.copelabs.oiframework.wifi.WiFiDirectListener](#)

Packages

- package [com.copelabs.oiframework.wifi](#)

7.30 `src/com/copelabs/oiframework/wifi/WiFiDirectUtils.java` File Reference

Classes

- class [com.copelabs.oiframework.wifi.WiFiDirectUtils](#)

Packages

- package [com.copelabs.oiframework.wifi](#)