

BWSip

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Chapter 1

Class Index

1.1 Class List

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Chapter 2

Class Documentation

2.1 com.bandwidth.bwsip.BWAccount Class Reference

Classes

- class [MyAccount](#)

Public Member Functions

- [BWAccount](#) ([BWPhone](#) phone)
- boolean [equals](#) (Object o)
- [BWAccountDelegate](#) [getDelegate](#) ()
- void [setDelegate](#) ([BWAccountDelegate](#) delegate)
- void [connect](#) ()
- void [close](#) ()
- void [addSipHeader](#) (String name, String value)
- void [clearSipHeaders](#) ()
- void [addProxy](#) (String proxy)
- void [clearProxies](#) ()
- boolean [isIceEnabled](#) ()
- void [setIceEnabled](#) (boolean iceEnabled)
- boolean [isRegistrationActive](#) ()
- void [updateRegistration](#) (boolean renew)
- int [getRegistrationInterval](#) ()
- void [setRegistrationInterval](#) (int interval)
- int [getRegistrationRegistrarInterval](#) ()
- int [getRegistrationFirstRetryInterval](#) ()
- void [setRegistrationFirstRetryInterval](#) (int interval)
- int [getRegistrationRetryInterval](#) ()
- void [setRegistrationRetryInterval](#) (int interval)
- [BWSipResponse](#) [getLastState](#) ()

- String [getIdUri](#) ()
- void [setIdUri](#) (String idUri)
- String [getDisplayName](#) ()
- void [setDisplayName](#) (String displayName)
- String [getRegistrar](#) ()
- void [setRegistrar](#) (String registrar)
- [BWCredentials](#) [getCredentials](#) ()
- void [setCredentials](#) ([BWCredentials](#) credentials)
- long [getServerPort](#) ()
- void [setServerPort](#) (long serverPort)

Protected Member Functions

- void [addCall](#) ([BWCall](#) call)
- void [removeCall](#) ([BWCall](#) call)

Protected Attributes

- [MyAccount](#) **myAccount**
- List< [BWCall](#) > **calls**

2.1.1 Detailed Description

[BWAccount](#) is the class used to connect to the SIP server.

2.1.2 Constructor & Destructor Documentation

2.1.2.1 `com.bandwidth.bwsip.BWAccount.BWAccount (BWPhone phone)`

Constructor: when a [BWAccount](#) object is initialized it checks if the [BWPhone](#) used as a parameter in the constructor is already initialized (i.e. the PJSUA2 library is already loaded and Endpoint is not null).

Parameters

<i>phone</i>	BWPhone
--------------	-------------------------

2.1.3 Member Function Documentation

2.1.3.1 `void com.bandwidth.bwsip.BWAccount.addCall (BWCall call)` [protected]

Add a [BWCall](#) to the call list.

Parameters

<i>call</i>	
-------------	--

2.1.3.2 void com.bandwidth.bwsip.BWAccount.addProxy (String *proxy*)

Add a proxy.

Parameters

<i>proxy</i>	String proxy URL.
--------------	-------------------

2.1.3.3 void com.bandwidth.bwsip.BWAccount.addSipHeader (String *name*, String *value*)

Add a header to the SIP INVITE.

Parameters

<i>name</i>	String the header name.
<i>value</i>	String the header value.

2.1.3.4 void com.bandwidth.bwsip.BWAccount.clearProxies ()

Clear the proxies.

2.1.3.5 void com.bandwidth.bwsip.BWAccount.clearSipHeaders ()

Clear the SIP headers.

2.1.3.6 void com.bandwidth.bwsip.BWAccount.close ()

Closes all connections for that account.

2.1.3.7 void com.bandwidth.bwsip.BWAccount.connect ()

Establish a connection with the SIP server. This method must be called after a [BWAccount](#) object is created and the developer has already set all the connection parameters like registrar, user credentials, etc. Any change in the [BWAccount](#) object only has affect when a new connection is done.

2.1.3.8 boolean com.bandwidth.bwsip.BWAccount.equals (Object *o*)

Compare two [BWAccount](#) objects.

Parameters

	<i>o</i>
--	----------

Returns

2.1.3.9 BWCredentials com.bandwidth.bwsip.BWAccount.getCredentials ()

Get the user credentials.

Returns

[BWCredentials](#)

2.1.3.10 BWAccountDelegate com.bandwidth.bwsip.BWAccount.getDelegate ()

Get the delegated class.

Returns

BWAccountDelegate

2.1.3.11 String com.bandwidth.bwsip.BWAccount.getDisplayName ()

Get the display name.

Returns

the displayName

2.1.3.12 String com.bandwidth.bwsip.BWAccount.getIdUri ()

Get the myAccount ID.

Returns

String

2.1.3.13 BWSipResponse com.bandwidth.bwsip.BWAccount.getLastState ()

Get the account's last state.

Returns

BWSipResponse the account state.

2.1.3.14 String com.bandwidth.bwsip.BWAccount.getRegistrar ()

Get the registrar URI.

Returns

String

2.1.3.15 int com.bandwidth.bwsip.BWAccount.getRegistrationFirstRetryInterval ()

Get the interval that will retry to do the registration for the first time.

Returns

int the first registration retry interval, in seconds.

2.1.3.16 int com.bandwidth.bwsip.BWAccount.getRegistrationInterval ()

Get the registration interval.

Returns

int the registration interval in seconds.

2.1.3.17 int com.bandwidth.bwsip.BWAccount.getRegistrationRegistrarInterval ()

Get the registration interval returned by the registrar; it might be different than the registration interval set by the client.

Returns

int the registration interval, in seconds.

2.1.3.18 int com.bandwidth.bwsip.BWAccount.getRegistrationRetryInterval ()

Get the interval that will redo the registration.

Returns

int the re-registration interval, in seconds.

2.1.3.19 long com.bandwidth.bwsip.BWAccount.getServerPort ()

Get the port number.

Returns

the clientPort

2.1.3.20 boolean com.bandwidth.bwsip.BWAccount.isIceEnabled ()

Check if ICE (Interactive Connectivity Establishment) is enabled when doing the SIP connection.

Returns

true if it's enabled

2.1.3.21 boolean com.bandwidth.bwsip.BWAccount.isRegistrationActive ()

Flag to tell if the account is currently registered.

Returns

boolean true if the account is currently registered; false if it's not.

2.1.3.22 void com.bandwidth.bwsip.BWAccount.removeCall ([BWCall](#) *call*)
[protected]

Remove a [BWCall](#) from the call list.

Parameters

<i>call</i>	
-------------	--

2.1.3.23 void com.bandwidth.bwsip.BWAccount.setCredentials ([BWCredentials](#) *credentials*)

Set the credentials (username & password) to connect to the myAccount.

Parameters

<i>credentials</i>	BWCredentials
--------------------	-------------------------------

2.1.3.24 void com.bandwidth.bwsip.BWAccount.setDelegate (BWAccountDelegate *delegate*)

Set the delegated class.

Parameters

<i>delegate</i>	BWAccountDelegate class
-----------------	-------------------------

2.1.3.25 void com.bandwidth.bwsip.BWAccount.setDisplayName (String *displayName*)

The name that will be displayed with the phone number when you make calls.

Parameters

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

2.1.3.26 void com.bandwidth.bwsip.BWAccount.setIceEnabled (boolean *iceEnabled*)

Enable or disable ICE (Interactive Connectivity Establishment) connections.

Parameters

<i>iceEnabled</i>	true if you want to enable ICE connection
-------------------	---

2.1.3.27 void com.bandwidth.bwsip.BWAccount.setIdUri (String *idUri*)

Set the myAccount ID.

- Example: "12223334444@bwsip.io"

Parameters

<i>idUri</i>	String
--------------	--------

2.1.3.28 void com.bandwidth.bwsip.BWAccount.setRegistrar (String *registrar*)

Set the registrar URI that will get connected.

- Example: "bwsip.io"

Parameters

<i>registrar</i>	String
------------------	--------

2.1.3.29 void com.bandwidth.bwsip.BWAccount.setRegistrationFirstRetryInterval (int *interval*)

The interval, in seconds, when we will try to do the registration again after it fails for the first time.

Parameters

<i>interval</i>	
-----------------	--

2.1.3.30 void com.bandwidth.bwsip.BWAccount.setRegistrationInterval (int *interval*)

Set the registration interval.

Parameters

<i>interval</i>	the interval, in seconds, when the registration will be sent again.
-----------------	---

2.1.3.31 void com.bandwidth.bwsip.BWAccount.setRegistrationRetryInterval (int *interval*)

The interval, in seconds, when we will try to do the registration again after it fails for the second time.

Parameters

<i>interval</i>	
-----------------	--

2.1.3.32 void com.bandwidth.bwsip.BWAccount.setServerPort (long *serverPort*)

Set the port number. (default = 5060)

Parameters

<i>serverPort</i>	the clientPort to set
-------------------	-----------------------

2.1.3.33 void com.bandwidth.bwsip.BWAccount.updateRegistration (boolean *renew*)

Update registration or perform un-registration.

2.2 com.bandwidth.bwsip.delegates.BWAccountDelegate Interface Reference 11

Parameters

<i>renew</i>	true to renew the registration, false to cancel the registration.
--------------	---

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

- BWAccount.java

2.2 com.bandwidth.bwsip.delegates.BWAccountDelegate Interface Reference

Public Member Functions

- void **onRegStateChanged** ([BWAccount](#) account)
- void **onIncomingCall** ([BWCall](#) call)

2.2.1 Detailed Description

Interface with methods used by the Delegation Pattern.

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

- BWAccountDelegate.java

2.3 com.bandwidth.bwsip.BWCall Class Reference

Classes

- class **MyCall**

Public Member Functions

- [BWCall](#) ([BWAccount](#) bwAccount)
- [BWCall](#) ([BWAccount](#) bwAccount, int callId)
- [BWAccount](#) [getParentAccount](#) ()
- boolean [equals](#) (Object o)
- [BWCallDelegate](#) [getDelegate](#) ()
- void [setDelegate](#) ([BWCallDelegate](#) delegate)
- void [close](#) ()
- void [makeCall](#) ()
- void [answerCall](#) ([BWSipResponse](#) answerType)
- void [hangupCall](#) ()
- void [addSipHeader](#) (String name, String value)
- [BWCallState](#) [getLastState](#) ()

- [BWSipResponse](#) [getLastStatusCode](#) ()
- void [addGeolocation](#) ([BWGps](#) gps)
- void [setMute](#) (boolean enabled)
- void [dialDTMF](#) (String digits)
- String [getLocalUri](#) ()
- String [getRemoteUri](#) ()
- void [setRemoteUri](#) (String remoteUri)
- [CallStats](#) [getStats](#) ()
- boolean [isIncoming](#) ()
- void [setIncoming](#) (boolean incoming)
- boolean [isOnHold](#) ()
- void [setOnHold](#) (boolean enabled)
- boolean [isMuted](#) ()
- int [getDuration](#) ()
- Map< String, List< String > > [getInviteHeaders](#) ()

Protected Attributes

- MyCall **myCall**

Package Functions

- void **setInviteHeaders** (Map< String, List< String > > inviteHeaders)

Package Attributes

- String **remoteUri**

2.3.1 Detailed Description

Class used to receive and make phone calls.

2.3.2 Constructor & Destructor Documentation

2.3.2.1 `com.bandwidth.bwsip.BWCall.BWCall (BWAccount bwAccount)`

Constructor.

Parameters

<i>bwAccount</i>	BWAccount - the account that will generate the call.
------------------	--

2.3.2.2 com.bandwidth.bwsip.BWCall.BWCall (BWAccount bwAccount, int callId)

Constructor.

Parameters

<i>bwAccount</i>	BWAccount - the account that will generate the call.
<i>callId</i>	int - the call Id.

2.3.3 Member Function Documentation

2.3.3.1 void com.bandwidth.bwsip.BWCall.addGeolocation (BWGps gps)

Add the Geolocation header to the call.

Parameters

<i>gps</i>	BWGps - the BWGps object with the coordinates set.
------------	--

2.3.3.2 void com.bandwidth.bwsip.BWCall.addSipHeader (String name, String value)

Add a header to the SIP INVITE.

Parameters

<i>name</i>	String the header name.
<i>value</i>	String the header value.

2.3.3.3 void com.bandwidth.bwsip.BWCall.answerCall (BWSipResponse answerType)

Answers the call

Parameters

<i>answerType</i>	int - the answer type (available in BWConsts).
-------------------	--

2.3.3.4 void com.bandwidth.bwsip.BWCall.close ()

Closes a [BWCall](#) object and removes it from the call list in the parent [BWAccount](#) object.

2.3.3.5 void com.bandwidth.bwsip.BWCall.dialDTMF (String digits)

Send DTMF digits using RFC 2833 payload formats.

Parameters

<i>digits</i>	String - the digits that will be sent to the other party.
---------------	---

2.3.3.6 boolean `com.bandwidth.bwsip.BWCall.equals (Object o)`

Compare two [BWCall](#) objects.

Parameters

<i>o</i>	BWCall - the object that will be compared with the current instance of BWCall .
----------	---

Returns

boolean - true if the objects have the same call Id; false if they are different.

2.3.3.7 `BWCallDelegate` `com.bandwidth.bwsip.BWCall.getDelegate ()`

Get the delegated class.

Returns

`BWCallDelegate`

2.3.3.8 int `com.bandwidth.bwsip.BWCall.getDuration ()`

Return the call duration.

Returns

int - the call duration, in seconds.

2.3.3.9 `Map<String, List<String> >` `com.bandwidth.bwsip.BWCall.getInviteHeaders ()`

Get the headers received on the INVITE request. This is only populated for inbound calls.

2.3.3.10 `BWCallState` `com.bandwidth.bwsip.BWCall.getLastState ()`

Get the call's last state.

Returns

`BWCallState` the call state.

2.3.3.11 BWSipResponse com.bandwidth.bwsip.BWCall.getLastStatusCode ()

Get the call's last status code.

Returns

the call's last status code.

2.3.3.12 String com.bandwidth.bwsip.BWCall.getLocalUri ()

Get the Local URI.

Returns

String - the local URI.

2.3.3.13 BWAccount com.bandwidth.bwsip.BWCall.getParentAccount ()

Get the call's parent account.

Returns

[BWAccount](#) - the [BWAccount](#) that generated this call object.

2.3.3.14 String com.bandwidth.bwsip.BWCall.getRemoteUri ()

Get the Remote URI.

Returns

String - the remote URI.

2.3.3.15 CallStats com.bandwidth.bwsip.BWCall.getStats ()

Get the call stats.

Returns

CallStats - the key value representation of the call stats.

2.3.3.16 void com.bandwidth.bwsip.BWCall.hangupCall ()

Hangs-up the call.

2.3.3.17 boolean com.bandwidth.bwsip.BWCall.isIncoming ()

Check if it's an incoming call.

Returns

boolean - true if it's an incoming call; false if it's an outgoing call.

2.3.3.18 boolean com.bandwidth.bwsip.BWCall.isMuted ()

Check if the call is muted.

Returns

boolean - true if the call is muted; false if it's not muted.

2.3.3.19 boolean com.bandwidth.bwsip.BWCall.isOnHold ()

Check if the call is on hold.

Returns

boolean - true if the call is on hold; false if it's not on hold.

2.3.3.20 void com.bandwidth.bwsip.BWCall.makeCall ()

Calls the URI previously set in the method setRemoteUri.

2.3.3.21 void com.bandwidth.bwsip.BWCall.setDelegate (BWCallDelegate *delegate*)

Set the delegated class.

Parameters

<i>delegate</i>	BWCallDelegate class
-----------------	----------------------

2.3.3.22 void com.bandwidth.bwsip.BWCall.setIncoming (boolean *incoming*)

Set the call property to incoming or outgoing.

Parameters

<i>incoming</i>	boolean
-----------------	---------

2.3.3.23 void com.bandwidth.bwsip.BWCall.setMute (boolean *enabled*)

Mute or un-mute a call.

Parameters

<i>enabled</i>	boolean - true to mute the call; false to un-mute.
----------------	--

2.3.3.24 void com.bandwidth.bwsip.BWCall.setOnHold (boolean *enabled*)

Put a call on hold or release the hold.

Parameters

<i>enabled</i>	boolean - true to put a call on hold; false to release the hold.
----------------	--

2.3.3.25 void com.bandwidth.bwsip.BWCall.setRemoteUri (String *remoteUri*)

Set the URI that is making the phone call.

Parameters

<i>remoteUri</i>	String the remote URI.
------------------	------------------------

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

- BWCall.java

2.4 com.bandwidth.bwsip.delegates.BWCallDelegate Interface - Reference

Public Member Functions

- void **onCallStateChanged** ([BWCall](#) call)
- void **onIncomingDTMF** ([BWCall](#) call, String digits)

2.4.1 Detailed Description

Interface with methods used by the Delegation Pattern.

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

- BWCallDelegate.java

2.5 com.bandwidth.bwsip.constants.BWCallState Enum Reference

Public Member Functions

- int **getValue** ()

Static Public Member Functions

- **[static initializer]**
- static [BWCallState](#) **get** (int value)

Public Attributes

- **NULL** = (0)
- **CALLING** = (1)
- **INCOMING** = (2)
- **EARLY** = (3)
- **CONNECTING** = (4)
- **CONFIRMED** = (5)
- **DISCONNECTED** = (6)

2.5.1 Detailed Description

Created by vegidio on 3/19/15.

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

- BWCallState.java

2.6 com.bandwidth.bwsip.BWCodec Class Reference

Public Member Functions

- String **getId** ()
- void **setId** (String id)
- short **getPriority** ()
- void **setPriority** (short priority)

Static Public Member Functions

- static List< [BWCodec](#) > **listAvailable** ()
- static void **setPriority** (List< [BWCodec](#) > codecs)

2.6.1 Detailed Description

Class used to create and set codec priorities.

2.6.2 Member Function Documentation

2.6.2.1 static List<BWCodec> com.bandwidth.bwsip.BWCodec.listAvailable ()
[static]

List the available codecs.

2.6.2.2 static void com.bandwidth.bwsip.BWCodec.setPriority (List< BWCodec > codecs) [static]

Set the codec priorities.

Parameters

<i>codecs</i>	
---------------	--

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

- BWCodec.java

2.7 com.bandwidth.bwsip.BWCredentials Class Reference

Public Member Functions

- String getPassword ()
- String getToken ()
- String getUsername ()
- boolean isTokenBased ()

Static Public Member Functions

- static BWCredentials createWithPassword (String username, String password)
- static BWCredentials createWithToken (String username, String token)

2.7.1 Detailed Description

Created by vegidio on 7/1/15.

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

- BWCredentials.java

2.8 com.bandwidth.bwsip.BWGps Class Reference

Inherits `LocationListener`.

Public Member Functions

- void `updateCoordinates` (`Activity` activity)
- String `generatePIDFLOxml` ()
- void `onLocationChanged` (`Location` location)
- void `onProviderDisabled` (String provider)
- void `onProviderEnabled` (String provider)
- void `onStatusChanged` (String provider, int status, Bundle extras)
- double `getLatitude` ()
- void `setLatitude` (double latitude)
- double `getLongitude` ()
- void `setLongitude` (double longitude)
- Date `getTime` ()
- void `setTime` (Date time)
- boolean `isSuccess` ()
- `BWGpsDelegate` `getDelegate` ()
- void `setDelegate` (`BWGpsDelegate` delegate)

2.8.1 Detailed Description

Class used the get GPS coordinates.

2.8.2 Member Function Documentation

2.8.2.1 String com.bandwidth.bwsip.BWGps.generatePIDFLOxml ()

Generate a XML in the PIDF-LO format representing the GPS coordinates.

Returns

2.8.2.2 double com.bandwidth.bwsip.BWGps.getLatitude ()

Returns

the latitude

2.8.2.3 double com.bandwidth.bwsip.BWGps.getLongitude ()**Returns**

the longitude

2.8.2.4 Date com.bandwidth.bwsip.BWGps.getTime ()**Returns**

the time

2.8.2.5 void com.bandwidth.bwsip.BWGps.onLocationChanged (Location *location*)

Location Manager Listeners

2.8.2.6 void com.bandwidth.bwsip.BWGps.setLatitude (double *latitude*)**Parameters**

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

2.8.2.7 void com.bandwidth.bwsip.BWGps.setLongitude (double *longitude*)**Parameters**

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

2.8.2.8 void com.bandwidth.bwsip.BWGps.setTime (Date *time*)**Parameters**

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

2.8.2.9 void com.bandwidth.bwsip.BWGps.updateCoordinates (Activity *activity*)

Update the GPS coordinates. Delegated method: [BWGpsDelegate#onCoordinates-Updated\(BWGps\)](#)

Parameters

<i>activity</i>	
-----------------	--

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

- [BWGps.java](#)

2.9 [com.bandwidth.bwsip.delegates.BWGpsDelegate](#) Interface - Reference

Public Member Functions

- void **onCoordinatesUpdated** ([BWGps](#) gps)

2.9.1 Detailed Description

Interface with methods used by the Delegation Pattern.

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

- [BWGpsDelegate.java](#)

2.10 [com.bandwidth.bwsip.constants.BWOutputRoute](#) Enum - Reference

Public Member Functions

- int **getValue** ()

Static Public Member Functions

- **[static initializer]**
- static [BWOutputRoute](#) **get** (int value)

Public Attributes

- **EARPIECE** = (0)
- **LOUDSPEAKER** = (1)

2.10.1 Detailed Description

Created by vegidio on 3/19/15.

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

- [BWOutputRoute.java](#)

2.11 com.bandwidth.bwsip.BWPhone Class Reference

Classes

- class **BWLogWriter**

Public Member Functions

- synchronized void [initialize](#) ()
- void [updateNameServers](#) ()
- synchronized boolean [isInitialized](#) ()
- void [createTransport](#) () throws Exception
- void [close](#) ()
- void [setAudioOutputRoute](#) (Context context, [BWOutputRoute](#) outputRoute)
- [EndpointInfo](#) [getEndpointInfo](#) (Context context)
- int [getLogLevel](#) ()
- void [setLogLevel](#) (int logLevel)
- long [getClientPort](#) ()
- void [setClientPort](#) (long clientPort)
- [BWTransport](#) [getTransportType](#) ()
- void [setTransportType](#) ([BWTransport](#) transportType)
- String [getTransportTag](#) ()
- String [getUserAgent](#) ()
- void [setUserAgent](#) (String userAgent)
- boolean [hasSrvResolution](#) ()
- void [setSrvResolution](#) (boolean srvResolution)
- boolean [isKeepAliveActive](#) ()
- void [setKeepAlive](#) (Context context)
- float [getInputVolume](#) ()
- void [setInputVolume](#) (float volume)
- float **[getOutputVolume](#)** ()
- void [setOutputVolume](#) (float volume)
- void [playWavFile](#) (String filepath)

Static Public Member Functions

- static [BWPhone](#) [getInstance](#) ()

Public Attributes

- StringVector **stunServers** = new StringVector()
- StringVector **nameServers** = new StringVector()
- Context **context** = null
- List< [BWAccount](#) > **accounts**

Protected Member Functions

- void **addAccount** ([BWAccount](#) account)
- void **removeAccount** ([BWAccount](#) account)

Protected Attributes

- Endpoint **endpoint**
- String **remoteIpAddress** = ""

Static Package Functions

- **[static initializer]**

2.11.1 Detailed Description

Main class of the framework. You must initialize and configure this class before you use any other class in the framework.

2.11.2 Member Function Documentation

2.11.2.1 void **com.bandwidth.bwsip.BWPhone.close** ()

Deletes any PJSUA2 object. You must call this function when SIP connection is no longer used.

2.11.2.2 void **com.bandwidth.bwsip.BWPhone.createTransport** () throws Exception

Configure the transport for the current endpoint.

Exceptions

<i>Exception</i>

2.11.2.3 long **com.bandwidth.bwsip.BWPhone.getClientPort** ()

Get the port number.

Returns

the clientPort

2.11.2.4 EndpointInfo com.bandwidth.bwsip.BWPhone.getEndpointInfo (Context context)

Get the local/remote IPs, name servers and the Wifi SSID (if used).

Parameters

<i>context</i>	the Application context.
----------------	--------------------------

Returns

EndpointInfo

2.11.2.5 float com.bandwidth.bwsip.BWPhone.getInputVolume ()

Get the input volume.

Returns

int input the volume value.

2.11.2.6 static BWPhone com.bandwidth.bwsip.BWPhone.getInstance () [static]

Get the [BWPhone](#) instance.

Returns

[BWPhone](#) object

2.11.2.7 int com.bandwidth.bwsip.BWPhone.getLogLevel ()

Get the log level.

Returns

the logLevel

2.11.2.8 String com.bandwidth.bwsip.BWPhone.getTransportTag ()

Returns

the transportTag

2.11.2.9 **BWTransport** `com.bandwidth.bwsip.BWPhone.getTransportType ()`

Returns

the transportType

2.11.2.10 **String** `com.bandwidth.bwsip.BWPhone.getUserAgent ()`

Get the user agent.

Returns

the userAgent

2.11.2.11 **boolean** `com.bandwidth.bwsip.BWPhone.hasSrvResolution ()`

Check if the SRV Resolution is enabled.

Returns

true if SRV Resolution is enabled; false if it's disabled.

2.11.2.12 **synchronized void** `com.bandwidth.bwsip.BWPhone.initialize ()`

Initialize the [BWPhone](#) object.

2.11.2.13 **synchronized boolean** `com.bandwidth.bwsip.BWPhone.isInitialized ()`

Check if PJSUA2 native library is loaded and the Endpoint is initialized.

Returns

true if it's loaded

2.11.2.14 **boolean** `com.bandwidth.bwsip.BWPhone.isKeepAliveActive ()`

Check if the Keep Alive is active or not.

Returns

boolean true if the Keep Alive is active; false if it's not.

2.11.2.15 void com.bandwidth.bwsip.BWPhone.playWavFile (String *filepath*)

Plays a given WAV file WAV file MUST be formatted as 16bit PCM mono/single channel

Parameters

<i>filepath</i>	The path to the file to be played
-----------------	-----------------------------------

2.11.2.16 void com.bandwidth.bwsip.BWPhone.setAudioOutputRoute (Context *context*, BWOutputRoute *outputRoute*)

Selects the device's audio output (Earpiece, Loudspeaker or Bluetooth)

Parameters

<i>context</i>	the Application context.
<i>outputRoute</i>	the output route constant.

2.11.2.17 void com.bandwidth.bwsip.BWPhone.setClientPort (long *clientPort*)

Set the port number. (default = 0)

Parameters

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

2.11.2.18 void com.bandwidth.bwsip.BWPhone.setInputVolume (float *volume*)

Update the input volume (usually the device's mic).

Parameters

<i>volume</i>	the volume level (0 - mute, 1 - normal, > 1 - louder than normal)
---------------	---

2.11.2.19 void com.bandwidth.bwsip.BWPhone.setKeepAlive (Context *context*)

Set up the Keep Alive feature. With Keep Alive active, every successful [BWAccount](#) connection will be automatically renewed. When the registration reaches half of its time, the framework will wake up the device and renew all active registrations.

Parameters

<i>context</i>	the application context.
----------------	--------------------------

2.11.2.20 void com.bandwidth.bwsip.BWPhone.setLogLevel (int *logLevel*)

Set the log level. (default = 0)

Parameters

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

2.11.2.21 void com.bandwidth.bwsip.BWPhone.setOutputVolume (float *volume*)

Update the output volume (usually the device's speaker).

Parameters

<i>volume</i>	the volume level (0 - mute, 1 - normal, > 1 - louder than normal)
---------------	---

2.11.2.22 void com.bandwidth.bwsip.BWPhone.setSrvResolution (boolean *srvResolution*)

Enable or disable the SRV Resolution.

Parameters

<i>srv-Resolution</i>	true to enable the SRV Resolution; false to disable it.
-----------------------	---

2.11.2.23 void com.bandwidth.bwsip.BWPhone.setTransportType (BWTransport *transportType*)

The transport type (UDP, TCP or TLS).

Parameters

<i>transport-Type</i>	the transportType to set
-----------------------	--------------------------

2.11.2.24 void com.bandwidth.bwsip.BWPhone.setUserAgent (String *userAgent*)

Set the user agent. (default = 'BWSip Framework v1.0')

Parameters

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

2.11.2.25 void com.bandwidth.bwsip.BWPhone.updateNameServers ()

Update the name servers used by the endpoint.

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

- BWPhone.java

2.12 com.bandwidth.bwsip.constants.BWSipResponse Enum - Reference

Public Member Functions

- **BWSipResponse** (int value)
- int [getValue](#) ()
- boolean [isProvisional](#) ()
- boolean [isSuccessful](#) ()
- boolean [isRedirection](#) ()
- boolean [isClientFailure](#) ()
- boolean [isServerFailure](#) ()
- boolean [isGlobalFailure](#) ()
- boolean [isFailure](#) ()

Static Public Member Functions

- **[static initializer]**
- static [BWSipResponse get](#) (int value)

Public Attributes

- **TRYING** = (100)
- **RINGING** = (180)
- **CALL_BEING_FORWARDED** = (181)
- **QUEUED** = (182)
- **PROGRESS** = (183)
- **OK** = (200)
- **ACCEPTED** = (202)
- **MULTIPLE_CHOICES** = (300)
- **MOVED_PERMANENTLY** = (301)
- **MOVED_TEMPORARILY** = (302)
- **USE_PROXY** = (305)
- **ALTERNATIVE_SERVICE** = (380)
- **BAD_REQUEST** = (400)
- **UNAUTHORIZED** = (401)

- **PAYMENT_REQUIRED** = (402)
- **FORBIDDEN** = (403)
- **NOT_FOUND** = (404)
- **METHOD_NOT_ALLOWED** = (405)
- **NOT_ACCEPTABLE** = (406)
- **PROXY_AUTHENTICATION_REQUIRED** = (407)
- **REQUEST_TIMEOUT** = (408)
- **GONE** = (410)
- **REQUEST_ENTITY_TOO_LARGE** = (413)
- **REQUEST_URI_TOO_LONG** = (414)
- **UNSUPPORTED_MEDIA_TYPE** = (415)
- **UNSUPPORTED_URI_SCHEME** = (416)
- **BAD_EXTENSION** = (420)
- **EXTENSION_REQUIRED** = (421)
- **SESSION_TIMER_TOO_SMALL** = (422)
- **INTERVAL_TOO_BRIEF** = (423)
- **TEMPORARILY_UNAVAILABLE** = (480)
- **CALL_TSX_DOES_NOT_EXIST** = (481)
- **LOOP_DETECTED** = (482)
- **TOO_MANY_HOPS** = (483)
- **ADDRESS_INCOMPLETE** = (484)
- **AMBIGUOUS** = (485)
- **BUSY_HERE** = (486)
- **REQUEST_TERMINATED** = (487)
- **NOT_ACCEPTABLE_HERE** = (488)
- **BAD_EVENT** = (489)
- **REQUEST_UPDATED** = (490)
- **REQUEST_PENDING** = (491)
- **UNDECIPHERABLE** = (493)
- **INTERNAL_SERVER_ERROR** = (500)
- **NOT_IMPLEMENTED** = (501)
- **BAD_GATEWAY** = (502)
- **SERVICE_UNAVAILABLE** = (503)
- **SERVER_TIMEOUT** = (504)
- **VERSION_NOT_SUPPORTED** = (505)
- **MESSAGE_TOO_LARGE** = (513)
- **PRECONDITION_FAILURE** = (580)
- **BUSY_EVERYWHERE** = (600)
- **DECLINE** = (603)
- **DOES_NOT_EXIST_ANYWHERE** = (604)
- **NOT_ACCEPTABLE_ANYWHERE** = (606)

2.12.1 Detailed Description

Enumeration of the SIP status codes.

2.12.2 Member Function Documentation

2.12.2.1 static BWSipResponse com.bandwidth.bwsip.constants.BWSipResponse.get (int *value*) [static]

Get the enumeration for the given integer status code.

Parameters

<i>value</i>	the integer status code.
--------------	--------------------------

Returns

the enumeration value for the given integer or null if not found.

2.12.2.2 int com.bandwidth.bwsip.constants.BWSipResponse.getValue ()

Returns

the integer value of this status code.

2.12.2.3 boolean com.bandwidth.bwsip.constants.BWSipResponse.isClientFailure ()

Returns

whether this is a client failure status code or not.

2.12.2.4 boolean com.bandwidth.bwsip.constants.BWSipResponse.isFailure ()

Returns

whether this is a client, server or global failure status code or not.

2.12.2.5 boolean com.bandwidth.bwsip.constants.BWSipResponse.isGlobalFailure ()

Returns

whether this is a global failure status code or not.

2.12.2.6 boolean com.bandwidth.bwsip.constants.BWSipResponse.isProvisional ()

Returns

whether this is a provisional status code or not.

2.12.2.7 `boolean com.bandwidth.bwsip.constants.BWSipResponse.isRedirection ()`

Returns

whether this is a redirection status code or not.

2.12.2.8 `boolean com.bandwidth.bwsip.constants.BWSipResponse.isServer-Failure ()`

Returns

whether this is a server failure status code or not.

2.12.2.9 `boolean com.bandwidth.bwsip.constants.BWSipResponse.isSuccessful ()`

Returns

whether this is a successful status code or not.

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

- BWSipResponse.java

2.13 com.bandwidth.bwsip.BWTone Class Reference

Public Member Functions

- synchronized void [close](#) ()
- synchronized void [startRingback](#) ()
- synchronized void [stopRingback](#) ()
- synchronized boolean [isRingbackPlaying](#) ()
- void [startDigit](#) (String digit)
- void [startDigit](#) (String digit, float volume)
- void [stopDigit](#) ()
- void [playDigit](#) (String digit)
- void [playDigit](#) (String digit, float volume)
- void [playDigit](#) (String digit, int duration)
- void [playDigit](#) (String digit, int duration, float volume)

2.13.1 Detailed Description

Class used to generate tones in the device.

2.13.2 Member Function Documentation

2.13.2.1 synchronized void com.bandwidth.bwsip.BWTone.close ()

Closes the tone generator. Should be called before setting all references to null.

2.13.2.2 synchronized boolean com.bandwidth.bwsip.BWTone.isRingbackPlaying ()

Return true if the ringback tone is playing; false if it's not playing.

Returns

ringbackPlaying boolean

2.13.2.3 void com.bandwidth.bwsip.BWTone.playDigit (String *digit*)

Plays a DTMF tone (default duration = 200 ms)

Parameters

<i>digit</i>	String - the DTMF digit to be played.
--------------	---------------------------------------

2.13.2.4 void com.bandwidth.bwsip.BWTone.playDigit (String *digit*, float *volume*)

Plays a DTMF tone (default duration = 200 ms)

Parameters

<i>digit</i>	String - the DTMF digit to be played.
<i>volume</i>	float - the tone volume [0 - mute; 1 - full volume].

2.13.2.5 void com.bandwidth.bwsip.BWTone.playDigit (String *digit*, int *duration*)

Plays a DTMF tone for X milliseconds.

Parameters

<i>digit</i>	String - the DTMF digit to be played.
<i>duration</i>	int - the number of milliseconds to play the tone.

2.13.2.6 void com.bandwidth.bwsip.BWTone.playDigit (String *digit*, int *duration*, float *volume*)

Plays a DTMF tone for X milliseconds.

Parameters

<i>digit</i>	String - the DTMF digit to be played.
<i>duration</i>	int - the number of milliseconds to play the tone.
<i>volume</i>	float - the tone volume [0 - mute; 1 - full volume].

2.13.2.7 void `com.bandwidth.bwsip.BWTone.startDigit (String digit)`

Starts a tone with an indefinite duration.

Parameters

<i>digit</i>	String - the DTMF digit to be played.
--------------	---------------------------------------

2.13.2.8 void `com.bandwidth.bwsip.BWTone.startDigit (String digit, float volume)`

Starts a tone with an indefinite duration.

Parameters

<i>digit</i>	String - the DTMF digit to be played.
<i>volume</i>	float - the tone volume [0 - mute; 1 - full volume].

2.13.2.9 synchronized void `com.bandwidth.bwsip.BWTone.startRingback ()`

Starts the ringback tone. You must have the [BWPhone](#) initialized to call this method.

2.13.2.10 void `com.bandwidth.bwsip.BWTone.stopDigit ()`

Stops any tone currently playing.

2.13.2.11 synchronized void `com.bandwidth.bwsip.BWTone.stopRingback ()`

Stops the ringback tone. You must have the [BWPhone](#) initialized to call this method.

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

- BWTone.java

2.14 `com.bandwidth.bwsip.constants.BWTransport` Enum Reference

Public Member Functions

- int `getValue ()`

Static Public Member Functions

- **[static initializer]**
- static [BWTransport](#) **get** (int value)

Public Attributes

- **UDP** = (0)
- **TCP** = (1)
- **TLS** = (2)

2.14.1 Detailed Description

Created by vegidio on 3/19/15.

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

- BWTransport.java

2.15 com.bandwidth.bwsip.models.CallStats Class Reference

Public Member Functions

- long **getCodecClock** ()
- void **setCodecClock** (long codecClock)
- String **getCodecName** ()
- void **setCodecName** (String codecName)
- int **getRoundTripTimeMean** ()
- void **setRoundTripTimeMean** (int roundTripTimeMean)
- long **getRxBytes** ()
- void **setRxBytes** (long rxBytes)
- int **getRxJitterMean** ()
- void **setRxJitterMean** (int rxJitterMean)
- int **getRxLossPeriodMean** ()
- void **setRxLossPeriodMean** (int rxLossPeriodMean)
- long **getRxPackageDiscard** ()
- void **setRxPackageDiscard** (long rxPackageDiscard)
- long **getRxPackageDuplicated** ()
- void **setRxPackageDuplicated** (long rxPackageDuplicated)
- long **getRxPackageLost** ()
- void **setRxPackageLost** (long rxPackageLost)
- long **getRxPackageNumber** ()
- void **setRxPackageNumber** (long rxPackageNumber)
- long **getRxPackageReordered** ()
- void **setRxPackageReordered** (long rxPackageReordered)

- long **getTxBytes** ()
- void **setTxBytes** (long txBytes)
- int **getTxJitterMean** ()
- void **setTxJitterMean** (int txJitterMean)
- int **getTxLossPeriodMean** ()
- void **setTxLossPeriodMean** (int txLossPeriodMean)
- long **getTxPackageDiscard** ()
- void **setTxPackageDiscard** (long txPackageDiscard)
- long **getTxPackageDuplicated** ()
- void **setTxPackageDuplicated** (long txPackageDuplicated)
- long **getTxPackageLost** ()
- void **setTxPackageLost** (long txPackageLost)
- long **getTxPackageNumber** ()
- void **setTxPackageNumber** (long txPackageNumber)
- long **getTxPackageReordered** ()
- void **setTxPackageReordered** (long txPackageReordered)

2.15.1 Detailed Description

Created by vegidio on 5/26/15.

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

- CallStats.java

2.16 com.bandwidth.bwsip.receivers.ConnectivityChangeReceiver Class Reference

Inherits BroadcastReceiver.

Public Member Functions

- void **onReceive** (Context context, Intent intent)

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

- ConnectivityChangeReceiver.java

2.17 com.bandwidth.bwsip.models.EndpointInfo Class Reference

Public Member Functions

- String **getIpLocalAddress** ()

- void **setIpLocalAddress** (String ipLocalAddress)
- String **getIpRemoteAddress** ()
- void **setIpRemoteAddress** (String ipRemoteAddress)
- List< String > **getNameServers** ()
- void **setNameServers** (List< String > nameServers)
- String **getWifiSSID** ()
- void **setWifiSSID** (String wifiSSID)

2.17.1 Detailed Description

Created by vegidio on 5/26/15.

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

- EndpointInfo.java

2.18 com.bandwidth.bwsip.receivers.KeepAliveReceiver Class - Reference

Inherits BroadcastReceiver.

Public Member Functions

- void **onReceive** (Context context, Intent intent)

2.18.1 Detailed Description

Created by vegidio on 2/25/15.

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

- KeepAliveReceiver.java

2.19 com.bandwidth.bwsip.services.KeepAliveService Class - Reference

Inherits Service.

Public Member Functions

- IBinder **onBind** (Intent intent)
- void **onCreate** ()
- int **onStartCommand** (Intent intent, int flags, int startId)

Static Public Member Functions

- static int [getShortestRegistrationInterval](#) ()
- static void [cancelAlarms](#) ()
- static void [scheduleAlarm](#) (int registrationInterval)

2.19.1 Detailed Description

Created by vegidio on 2/25/15.

2.19.2 Member Function Documentation

2.19.2.1 static void com.bandwidth.bwsip.services.KeepAliveService.cancelAlarms () [static]

Cancel any existing alarm.

2.19.2.2 static int com.bandwidth.bwsip.services.KeepAliveService.getShortest-RegistrationInterval () [static]

Get the shortest registration interval across all accounts.

Returns

int the registration interval, in seconds.

2.19.2.3 static void com.bandwidth.bwsip.services.Keep-AliveService.scheduleAlarm (int registrationInterval) [static]

Schedule an alarm to run X seconds after the current time.

Parameters

<i>registration-Interval</i>	the registration interval, in seconds.
------------------------------	--

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

- KeepAliveService.java

2.20 com.bandwidth.bwsip.BWAccount.MyAccount Class Reference

Inherits Account.

Public Member Functions

- **MyAccount** ([BWAccount](#) bwAccount)
- void **onRegState** (OnRegStateParam prm)
- void **onIncomingCall** (OnIncomingCallParam prm)

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

- BWAccount.java