

# RAPP Platform API

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## Chapter 4

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## Chapter 5

# Namespace Documentation

### 5.1 CloudServices Namespace Reference

### 5.2 rapp Namespace Reference

#### Namespaces

- [cloud](#)
- [object](#)
- [types](#)

*Common global types.*

### 5.3 rapp::cloud Namespace Reference

#### Classes

- class [asio\\_handler](#)  
*base class for asio handling, including helper methods and most protected members*
- class [asio\\_service\\_http](#)  
*base class for asynchronous http websockets used for connecting to cloud services*
- class [asio\\_socket](#)  
*Abstract Base ASIO Socket class Use for passing around to the service controller, various types of cloud handlers. This Interface is needed so that different handlers can be passed to the scheduler transparently.*
- class [asio\\_socket\\_https](#)  
*wrapper for SSL/TLS secure HTTP communication*
- class [available\\_services](#)  
*requests available services from platform*
- class [cognitive\\_get\\_history](#)
- class [cognitive\\_get\\_scores](#)
- class [cognitive\\_record\\_performance](#)
- class [cognitive\\_test\\_selector](#)  
*chose a cognitive game to play*
- class [email\\_fetch](#)  
*fetch email(s)*
- class [email\\_send](#)  
*send an email*
- class [face\\_detection](#)

*Asynchronous Service which will request the cloud to detect faces.*

- class [fetch\\_personal\\_data](#)  
*Get all personal data for a specific user.*
- class [geolocation](#)  
*geolocation service*
- class [hazard\\_detection\\_door\\_check](#)  
*detect open doors*
- class [hazard\\_detection\\_light\\_check](#)  
*detect light levels*
- class [human\\_detection](#)  
*detect humans in an image*
- class [login\\_user](#)
- class [news\\_explore](#)  
*get news*
- class [object\\_recognition](#)  
*recognize object from an image*
- class [ontology\\_is\\_subsuperclass\\_of](#)  
*query if sub class is a super class of param*
- class [ontology\\_subclasses\\_of](#)  
*get ontology subclass of a query*
- class [ontology\\_superclasses\\_of](#)  
*get ontology super-classes of query*
- class [path\\_upload\\_map](#)
- class [plan\\_path\\_2d](#)
- class [qr\\_detection](#)

*Asynchronous Service which will request the cloud to detect QR codes.*

- class [service\\_controller](#)  
*Main class that controllers RAPP Services.*
- class [set\\_denoise\\_profile](#)  
*setting the denoising audio profile for speech recognition*
- class [speech\\_detection\\_google](#)  
*delegate speech-to-text to Google via RAPP*
- class [speech\\_detection\\_sphinx4](#)  
*speech-to-text recognition using CMU sphinx4*
- class [text\\_to\\_speech](#)  
*request speech audio from text*
- class [weather\\_report\\_current](#)  
*get current weather report*
- class [weather\\_report\\_forecast](#)  
*get weather forecast*

## Variables

- constexpr char [address](#) [] = "localhost"  
*api.rapp.cloud -*
- constexpr char [port](#) [] = "9001"  
*api.rapp.cloud - HOP server port*

### 5.3.1 Variable Documentation

#### 5.3.1.1 constexpr char rapp::cloud::address[] = "localhost"

api.rapp.cloud -

Definition at line 8 of file asio\_socket.hpp.

#### 5.3.1.2 constexpr char rapp::cloud::port[] = "9001"

api.rapp.cloud - HOP server port

Definition at line 10 of file asio\_socket.hpp.

## 5.4 rapp::object Namespace Reference

### Classes

- class [audio](#)  
*class which wraps around raw bytes of an audiofile*
- class [face](#)  
*describes a face coordinate (cartesian)*
- class [human](#)  
*describes human coordinates*
- class [microphone\\_wav](#)  
*WAV Single channel 16Khz > Headset audio source.*
- class [nao\\_quad\\_channel\\_wav](#)  
*WAV Class specialisation for quad channel.*
- class [nao\\_single\\_channel\\_wav](#)  
*WAV Class specialisation for a single channel.*
- class [ogg](#)  
*OGG Class specialisation.*
- class [picture](#)  
*class which wraps around raw bytes of a picture*
- class [qr\\_code](#)

## 5.5 rapp::types Namespace Reference

Common global types.

### Typedefs

- typedef char [byte](#)

### 5.5.1 Detailed Description

Common global types.

## 5.5.2 Typedef Documentation

### 5.5.2.1 typedef char rapp::types::byte

Definition at line 6 of file globals.hpp.

## 5.6 RappCloud Namespace Reference

### Namespaces

- [CloudMsgs](#)
- [Objects](#)
- [RappPlatformApi](#)
- [Service](#)
- [ServiceController](#)
- [Utils](#)

### Variables

- list [\\_\\_all\\_\\_](#) = ["CloudMsgs", "RappPlatformService", "Objects", "RappPlatformAPI"]

### 5.6.1 Variable Documentation

#### 5.6.1.1 list RappCloud.\_\_all\_\_ = ["CloudMsgs", "RappPlatformService", "Objects", "RappPlatformAPI"]

Definition at line 11 of file `__init__.py`.

## 5.7 RappCloud.CloudMsgs Namespace Reference

### Namespaces

- [Cloud](#)
- [CognitiveExerciseSelect](#)
- [CognitiveGetHistory](#)
- [CognitiveGetScores](#)
- [CognitiveRecordPerformance](#)
- [EmailFetch](#)
- [EmailSend](#)
- [FaceDetection](#)
- [Geolocation](#)
- [HazardDetectionDoor](#)
- [HazardDetectionLight](#)
- [HumanDetection](#)
- [NewsExplore](#)
- [ObjectRecognitionCaffe](#)
- [OntologyIsSubsuperclass](#)
- [OntologySubclasses](#)
- [OntologySuperclasses](#)
- [PathPlanningPlan2D](#)
- [PathPlanningUploadMap](#)
- [QrDetection](#)

- [SetNoiseProfile](#)
- [SpeechRecognitionGoogle](#)
- [SpeechRecognitionSphinx](#)
- [TextToSpeech](#)
- [WeatherReportCurrent](#)
- [WeatherReportForecast](#)

## 5.8 RappCloud.CloudMsgs.Cloud Namespace Reference

### Classes

- class [CloudMsg](#)
- class [CloudRequest](#)
- class [CloudResponse](#)

## 5.9 RappCloud.CloudMsgs.CognitiveExerciseSelect Namespace Reference

### Classes

- class [CognitiveExerciseSelect](#)

## 5.10 RappCloud.CloudMsgs.CognitiveGetHistory Namespace Reference

### Classes

- class [CognitiveGetHistory](#)

## 5.11 RappCloud.CloudMsgs.CognitiveGetScores Namespace Reference

### Classes

- class [CognitiveGetScores](#)

## 5.12 RappCloud.CloudMsgs.CognitiveRecordPerformance Namespace Reference

### Classes

- class [CognitiveRecordPerformance](#)

## 5.13 RappCloud.CloudMsgs.EmailFetch Namespace Reference

### Classes

- class [EmailFetch](#)

## 5.14 RappCloud.CloudMsgs.EmailSend Namespace Reference

### Classes

- class [EmailSend](#)

## 5.15 RappCloud.CloudMsgs.FaceDetection Namespace Reference

### Classes

- class [FaceDetection](#)

## 5.16 RappCloud.CloudMsgs.Geolocation Namespace Reference

### Classes

- class [Geolocation](#)

## 5.17 RappCloud.CloudMsgs.HazardDetectionDoor Namespace Reference

### Classes

- class [HazardDetectionDoor](#)

## 5.18 RappCloud.CloudMsgs.HazardDetectionLight Namespace Reference

### Classes

- class [HazardDetectionLight](#)

## 5.19 RappCloud.CloudMsgs.HumanDetection Namespace Reference

### Classes

- class [HumanDetection](#)

## 5.20 RappCloud.CloudMsgs.NewsExplore Namespace Reference

### Classes

- class [NewsExplore](#)

## 5.21 RappCloud.CloudMsgs.ObjectRecognitionCaffe Namespace Reference

### Classes

- class [ObjectRecognitionCaffe](#)

## 5.22 RappCloud.CloudMsgs.OntologyIsSubsuperclass Namespace Reference

### Classes

- class [OntologyIsSubsuperclass](#)

## 5.23 RappCloud.CloudMsgs.OntologySubclasses Namespace Reference

### Classes

- class [OntologySubclasses](#)

## 5.24 RappCloud.CloudMsgs.OntologySuperclasses Namespace Reference

### Classes

- class [OntologySuperclasses](#)

## 5.25 RappCloud.CloudMsgs.PathPlanningPlan2D Namespace Reference

### Classes

- class [PathPlanningPlan2D](#)

## 5.26 RappCloud.CloudMsgs.PathPlanningUploadMap Namespace Reference

### Classes

- class [PathPlanningUploadMap](#)

## 5.27 RappCloud.CloudMsgs.QrDetection Namespace Reference

### Classes

- class [QrDetection](#)

## 5.28 RappCloud.CloudMsgs.SetNoiseProfile Namespace Reference

### Classes

- class [SetNoiseProfile](#)

## 5.29 RappCloud.CloudMsgs.SpeechRecognitionGoogle Namespace Reference

### Classes

- class [SpeechRecognitionGoogle](#)

## 5.30 RappCloud.CloudMsgs.SpeechRecognitionSphinx Namespace Reference

### Classes

- class [SpeechRecognitionSphinx](#)

## 5.31 RappCloud.CloudMsgs.TextToSpeech Namespace Reference

### Classes

- class [TextToSpeech](#)

## 5.32 RappCloud.CloudMsgs.WeatherReportCurrent Namespace Reference

### Classes

- class [WeatherReportCurrent](#)

## 5.33 RappCloud.CloudMsgs.WeatherReportForecast Namespace Reference

### Classes

- class [WeatherReportForecast](#)

## 5.34 RappCloud.Objects Namespace Reference

### Namespaces

- [File](#)
- [Payload](#)



## 5.35 RappCloud.Objects.File Namespace Reference

### Classes

- class [File](#)

## 5.36 RappCloud.Objects.Payload Namespace Reference

### Classes

- class [Payload](#)

## 5.37 RappCloud.RappPlatformApi Namespace Reference

### Classes

- class [RappPlatformAPI](#)

## 5.38 RappCloud.Service Namespace Reference

### Namespaces

- [RappPlatformService](#)

## 5.39 RappCloud.Service.RappPlatformService Namespace Reference

### Classes

- class [RappPlatformService](#)

## 5.40 RappCloud.ServiceController Namespace Reference

### Namespaces

- [Adapters](#)
- [AsyncHandler](#)
- [RAPPAuth](#)
- [ServiceControllerAsync](#)
- [ServiceControllerBase](#)
- [ServiceControllerSync](#)

## 5.41 RappCloud.ServiceController.Adapters Namespace Reference

### Classes

- class [SSL23Adapter](#)
- class [SSL2Adapter](#)

- class [SSL3Adapter](#)
- class [SSLAdapter](#)
- class [SSLDef](#)
- class [TLS11Adapter](#)
- class [TLS12Adapter](#)
- class [TLS1Adapter](#)
- class [TLSAdapter](#)

## 5.42 RappCloud.ServiceController.AsyncHandler Namespace Reference

### Classes

- class [AsyncHandler](#)

## 5.43 RappCloud.ServiceController.RAPPAuth Namespace Reference

### Classes

- class [RAPPAuth](#)

## 5.44 RappCloud.ServiceController.ServiceControllerAsync Namespace Reference

### Classes

- class [ServiceControllerAsync](#)

## 5.45 RappCloud.ServiceController.ServiceControllerBase Namespace Reference

### Classes

- class [ServiceControllerBase](#)

## 5.46 RappCloud.ServiceController.ServiceControllerSync Namespace Reference

### Classes

- class [ServiceControllerSync](#)

## 5.47 RappCloud.Utils Namespace Reference

### Namespaces

- [DatatypeAssert](#)
- [Net](#)
- [RandStrGen](#)

## 5.48 RappCloud.Utils.DatatypeAssert Namespace Reference

### Functions

- def [add\\_to\\_args](#)  
*Add values to \*args.*
- def [add\\_to\\_kwargs](#)  
*Add values to \*\*kwargs.*
- def [datatypeassert](#)  
*Data type assertion decorator implementation.*

### 5.48.1 Function Documentation

#### 5.48.1.1 `def RappCloud.Utils.DatatypeAssert.add_to_args ( args )`

Add values to \*args.

Returns the updated \*args

Definition at line 35 of file DatatypeAssert.py.

#### 5.48.1.2 `def RappCloud.Utils.DatatypeAssert.add_to_kwargs ( kwargs )`

Add values to \*\*kwargs.

Returns the updated \*\*kwargs

Definition at line 43 of file DatatypeAssert.py.

#### 5.48.1.3 `def RappCloud.Utils.DatatypeAssert.datatypeassert ( decargs, deckwargs )`

Data type assertion decorator implementation.

Check and assert on function input arguments.

##### Parameters

<i>*args</i>	- Data types for the function to assert.
<i>**kwargs</i>	- Data types for the function to assert.

Definition at line 51 of file DatatypeAssert.py.

## 5.49 RappCloud.Utils.Net Namespace Reference

### Classes

- class [Net](#)

## 5.50 RappCloud.Utils.RandStrGen Namespace Reference

### Classes

- class [RandStrGen](#)



## Chapter 6

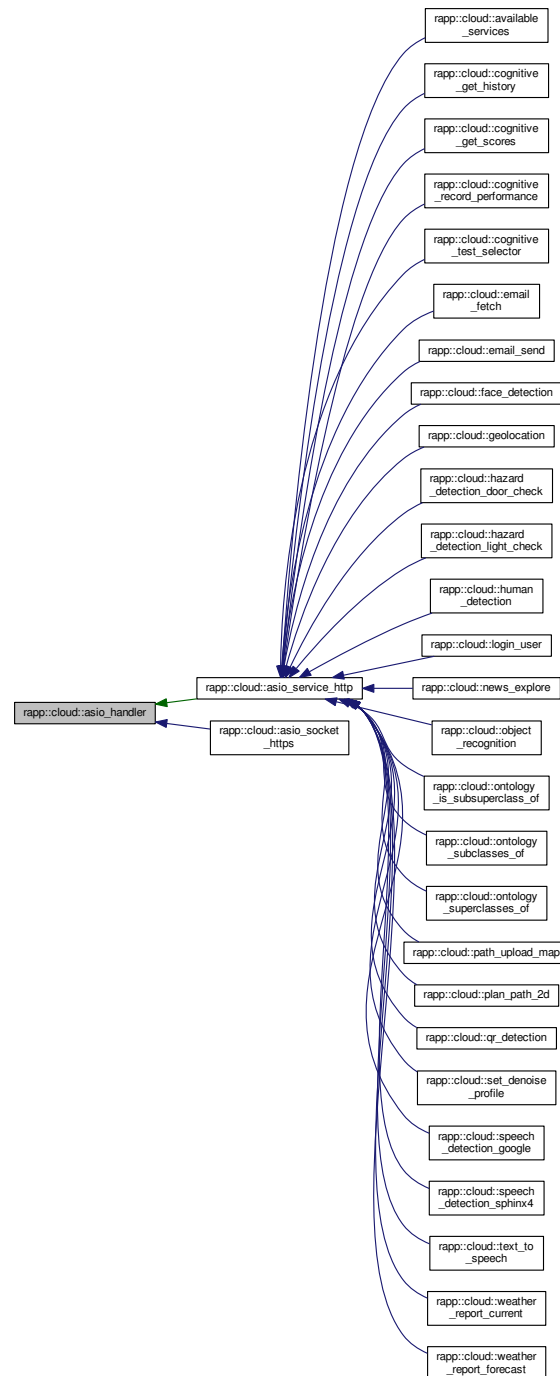
# Class Documentation

### 6.1 rapp::cloud::asio\_handler Class Reference

base class for asio handling, including helper methods and most protected members

```
#include <asio_handler.hpp>
```

Inheritance diagram for `rapp::cloud::asio_handler`:



## Public Member Functions

- [asio\\_handler](#) (const std::string token)  
*ctor*
- void [content\\_length](#) (std::string response, std::size\_t &length)  
*get the content leangth from*
- std::string [decode64](#) (const std::string &val)

- decode base64*
- std::string [encode64](#) (const std::string &val)  
*encode base64*
- void [error\\_handler](#) (const boost::system::error\_code &error)  
*Handle an Error.*
- std::string [escape\\_string](#) (const std::string &str)  
*escape JSON strings when sending them over the socket*
- bool [has\\_content\\_length](#) (std::string response)  
*examine if the header response contains a `content-length` field*
- void [invalid\\_request](#) (const std::string message)  
*Handle Invalid Query - e.g.: response which states our query was invalid.*
- std::string [random\\_boundary](#) () const  
*Create a random boundary for the multipart/form in HTTP.*
- std::string [strip\\_header](#) (std::string response)  
*remove/strip the HTTP header and*

## Protected Attributes

- std::size\_t [bytes\\_transferred\\_](#) = 0  
*Bytes Transferred.*
- std::function< void(std::string)> [callback\\_](#)  
*Callback Handler - use with `std::bind` or boost variant.*
- std::size\_t [content\\_length\\_](#) = 0  
*Content-Length.*
- std::atomic< bool > [flag\\_](#) = {false}  
*flag used to extract header*
- std::string [header\\_](#)  
*Header that will be used.*
- std::string [json\\_](#)  
*JSON reply.*
- std::string [post\\_](#)  
*Actual post Data.*
- boost::asio::streambuf [request\\_](#)  
*Request Container.*
- boost::asio::streambuf [response\\_](#)  
*Response Container.*
- std::unique\_ptr  
< boost::asio::deadline\_timer > [timer\\_](#)  
*time-out timer*
- const std::string [token\\_](#)  
*user authentication token*

### 6.1.1 Detailed Description

base class for asio handling, including helper methods and most protected members

Version

0.6.0

## Date

April 2016

## Author

Alex Giokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 14 of file asio\_handler.hpp.

## 6.1.2 Constructor & Destructor Documentation

### 6.1.2.1 `rapp::cloud::asio_handler::asio_handler ( const std::string token )`

ctor

Definition at line 19 of file asio\_handler.hpp.

## 6.1.3 Member Function Documentation

### 6.1.3.1 `void rapp::cloud::asio_handler::content_length ( std::string response, std::size_t & length )`

get the content leangth from

Parameters

<i>header</i>	
---------------	--

Definition at line 16 of file asio\_handler.cpp.

### 6.1.3.2 `std::string rapp::cloud::asio_handler::decode64 ( const std::string & val )`

decode base64

Parameters

<i>val</i>	must be encoded using base64
------------	------------------------------

Definition at line 101 of file asio\_handler.cpp.

### 6.1.3.3 `std::string rapp::cloud::asio_handler::encode64 ( const std::string & val )`

encode base64

Parameters

<i>val</i>	must be plain-text string
------------	---------------------------

Returns

a base64 encoded string

Definition at line 110 of file asio\_handler.cpp.

### 6.1.3.4 `void rapp::cloud::asio_handler::error_handler ( const boost::system::error_code & error )`

Handle an Error.



## Parameters

<i>error</i>	is the raised error from the client
--------------	-------------------------------------

Definition at line 6 of file asio\_handler.cpp.

#### 6.1.3.5 std::string rapp::cloud::asio\_handler::escape\_string ( const std::string & *str* )

escape JSON strings when sending them over the socket

## Parameters

<i>str</i>	will be escaped and returned
------------	------------------------------

Definition at line 82 of file asio\_handler.cpp.

#### 6.1.3.6 bool rapp::cloud::asio\_handler::has\_content\_length ( std::string *response* )

examine if the header response contains a `content-length` field

Definition at line 42 of file asio\_handler.cpp.

#### 6.1.3.7 void rapp::cloud::asio\_handler::invalid\_request ( const std::string *message* )

Handle Invalid Query - e.g.: response which states our query was invalid.

Definition at line 11 of file asio\_handler.cpp.

#### 6.1.3.8 std::string rapp::cloud::asio\_handler::random\_boundary ( ) const

Create a random boundary for the multipart/form in HTTP.

Definition at line 67 of file asio\_handler.cpp.

#### 6.1.3.9 std::string rapp::cloud::asio\_handler::strip\_header ( std::string *response* )

remove/strip the HTTP header and

## Returns

the body

Definition at line 55 of file asio\_handler.cpp.

### 6.1.4 Member Data Documentation

#### 6.1.4.1 std::size\_t rapp::cloud::asio\_handler::bytes\_transferred\_ = 0 [protected]

Bytes Transferred.

Definition at line 74 of file asio\_handler.hpp.

#### 6.1.4.2 std::function<void(std::string)> rapp::cloud::asio\_handler::callback\_ [protected]

Callback Handler - use with `std::bind` or `boost` variant.

Definition at line 61 of file asio\_handler.hpp.

**6.1.4.3** `std::size_t rapp::cloud::asio_handler::content_length_ = 0` [protected]

Content-Length.

Definition at line 72 of file asio\_handler.hpp.

**6.1.4.4** `std::atomic<bool> rapp::cloud::asio_handler::flag_ = {false}` [protected]

flag used to extract header

Definition at line 70 of file asio\_handler.hpp.

**6.1.4.5** `std::string rapp::cloud::asio_handler::header_` [protected]

Header that will be used.

Definition at line 57 of file asio\_handler.hpp.

**6.1.4.6** `std::string rapp::cloud::asio_handler::json_` [protected]

JSON reply.

Definition at line 76 of file asio\_handler.hpp.

**6.1.4.7** `std::string rapp::cloud::asio_handler::post_` [protected]

Actual post Data.

Definition at line 59 of file asio\_handler.hpp.

**6.1.4.8** `boost::asio::streambuf rapp::cloud::asio_handler::request_` [protected]

Request Container.

Definition at line 63 of file asio\_handler.hpp.

**6.1.4.9** `boost::asio::streambuf rapp::cloud::asio_handler::response_` [protected]

Response Container.

Definition at line 65 of file asio\_handler.hpp.

**6.1.4.10** `std::unique_ptr<boost::asio::deadline_timer> rapp::cloud::asio_handler::timer_` [protected]

time-out timer

Definition at line 68 of file asio\_handler.hpp.

**6.1.4.11** `const std::string rapp::cloud::asio_handler::token_` [protected]

user authentication token

Definition at line 78 of file asio\_handler.hpp.

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

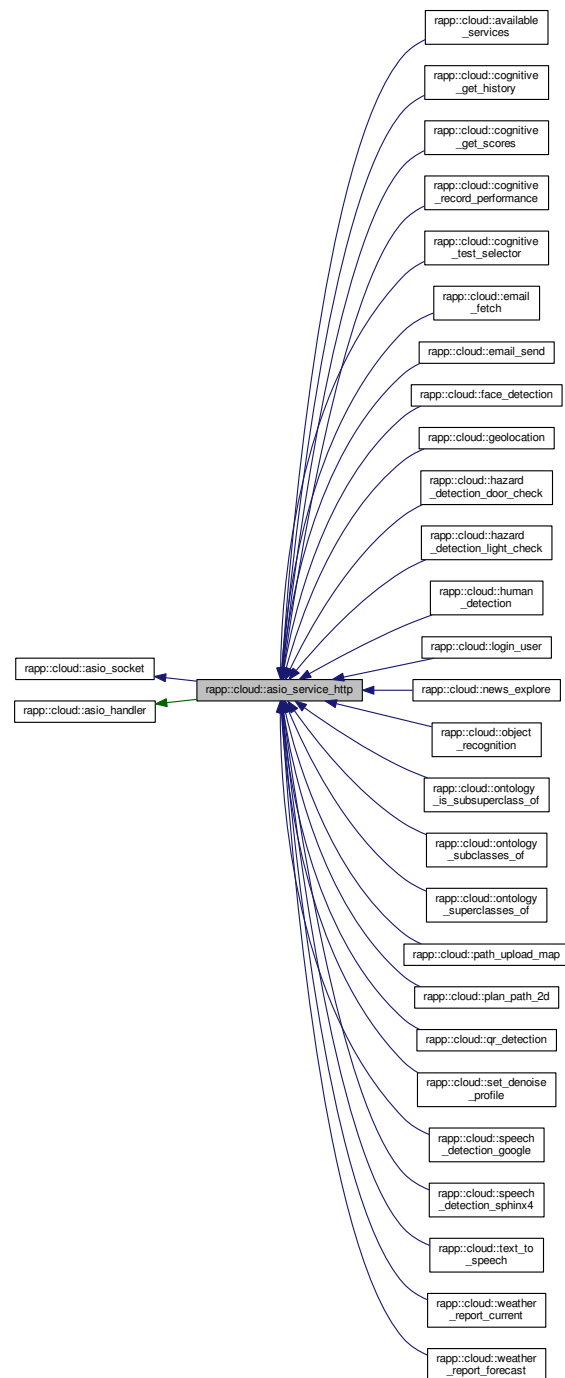
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/asio\\_handler/asio\\_handler.hpp](#)
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/asio\\_handler/asio\\_handler.cpp](#)

## 6.2 rapp::cloud::asio\_service\_http Class Reference

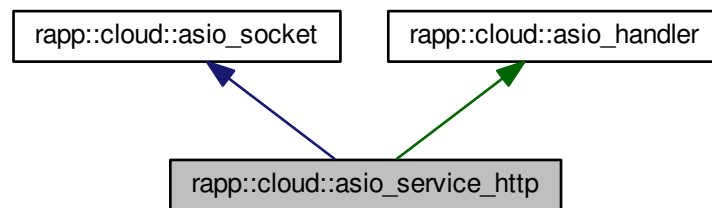
base class for asynchronous http websockets used for connecting to cloud services

```
#include <asio_service_http.hpp>
```

Inheritance diagram for rapp::cloud::asio\_service\_http:



Collaboration diagram for `rapp::cloud::asio_service_http`:



## Public Member Functions

- [asio\\_service\\_http](#) (const std::string token)
- void [schedule](#) (boost::asio::ip::tcp::resolver::query &query, boost::asio::ip::tcp::resolver &resolver, boost::asio::io\_service &io\_service)

## Protected Member Functions

- void [check\\_timeout](#) ()  
*check timed-out*
- void [handle\\_connect](#) (const boost::system::error\_code &err, boost::asio::ip::tcp::resolver::iterator endpoint\_iterator)
- void [handle\\_read\\_content](#) (const boost::system::error\_code &err, std::size\_t bytes)  
*Callback for Handling Actual Data Contents.*
- void [handle\\_read\\_headers](#) (const boost::system::error\_code &err)  
*Callback for Handling Headers.*
- void [handle\\_read\\_status\\_line](#) (const boost::system::error\_code &err)  
*Callback for handling HTTP Header Response Data.*
- void [handle\\_resolve](#) (const boost::system::error\_code &err, boost::asio::ip::tcp::resolver::iterator endpoint\_iterator)  
*Callback for Handling Address Resolution.*
- void [handle\\_write\\_request](#) (const boost::system::error\_code &err)  
*Callback for handling request and waiting for response.*
- void [reset](#) ()  
*reset handler (clear data, bytes, etc) and stop connection*

## Private Attributes

- std::unique\_ptr  
< boost::asio::ip::tcp::socket > [socket\\_](#)  
*TCP Socket (plain-text)*

## Additional Inherited Members

### 6.2.1 Detailed Description

base class for asynchronous http websockets used for connecting to cloud services

#### Version

0.6.0

#### Date

May 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk) TODO: rename to asio\_socket\_http

Definition at line 14 of file asio\_service\_http.hpp.

### 6.2.2 Constructor & Destructor Documentation

#### 6.2.2.1 rapp::cloud::asio\_service\_http::asio\_service\_http ( const std::string *token* )

Construct the asio http service

##### Parameters

<i>token</i>	is the <a href="#">rapp.cloud</a> authentication token
--------------	--

Definition at line 21 of file asio\_service\_http.hpp.

### 6.2.3 Member Function Documentation

#### 6.2.3.1 void rapp::cloud::asio\_service\_http::check\_timeout ( ) [protected]

check timed-out

Definition at line 230 of file asio\_service\_http.cpp.

#### 6.2.3.2 void rapp::cloud::asio\_service\_http::handle\_connect ( const boost::system::error\_code & *err*, boost::asio::ip::tcp::resolver::iterator *endpoint\_iterator* ) [protected]

Callback for Handling Connection Events

##### Parameters

<i>err</i>	is a possible error
<i>endpoint_iterator</i>	is boosts' hostname address handler

Definition at line 59 of file asio\_service\_http.cpp.

#### 6.2.3.3 void rapp::cloud::asio\_service\_http::handle\_read\_content ( const boost::system::error\_code & *err*, std::size\_t *bytes* ) [protected]

Callback for Handling Actual Data Contents.

## Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 163 of file asio\_service\_http.cpp.

**6.2.3.4** void rapp::cloud::asio\_service\_http::handle\_read\_headers ( const boost::system::error\_code & *err* )  
[protected]

Callback for Handling Headers.

## Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 143 of file asio\_service\_http.cpp.

**6.2.3.5** void rapp::cloud::asio\_service\_http::handle\_read\_status\_line ( const boost::system::error\_code & *err* )  
[protected]

Callback for handling HTTP Header Response Data.

## Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 107 of file asio\_service\_http.cpp.

**6.2.3.6** void rapp::cloud::asio\_service\_http::handle\_resolve ( const boost::system::error\_code & *err*,  
boost::asio::ip::tcp::resolver::iterator *endpoint\_iterator* ) [protected]

Callback for Handling Address Resolution.

## Parameters

<i>err</i>	is a possible error
<i>endpoint_iterator</i>	is boost's hostname address handler

Definition at line 41 of file asio\_service\_http.cpp.

**6.2.3.7** void rapp::cloud::asio\_service\_http::handle\_write\_request ( const boost::system::error\_code & *err* )  
[protected]

Callback for handling request and waiting for response.

## Parameters

<i>err</i>	is a possible error
------------	---------------------

Definition at line 88 of file asio\_service\_http.cpp.

**6.2.3.8** void rapp::cloud::asio\_service\_http::reset ( ) [protected]

reset handler (clear data, bytes, etc) and stop connection

Definition at line 217 of file asio\_service\_http.cpp.

6.2.3.9 void rapp::cloud::asio\_service\_http::schedule ( boost::asio::ip::tcp::resolver::query & *query*,  
boost::asio::ip::tcp::resolver & *resolver*, boost::asio::io\_service & *io\_service* ) [virtual]

schedule this client as a job for execution using

## Parameters

<i>query</i>	defines the actual URL/URI
<i>resolver</i>	is the URL/URI resolver reference
<i>io_service</i>	is the queue on which jobs are scheduled

Implements [rapp::cloud::asio\\_socket](#).

Definition at line 6 of file asio\_service\_http.cpp.

## 6.2.4 Member Data Documentation

6.2.4.1 `std::unique_ptr<boost::asio::ip::tcp::socket> rapp::cloud::asio_service_http::socket_` [private]

TCP Socket (plain-text)

Definition at line 78 of file asio\_service\_http.hpp.

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

- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/asio\\_service\\_http/asio\\_service\\_http.hpp](#)
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/asio\\_service\\_http/asio\\_service\\_http.cpp](#)

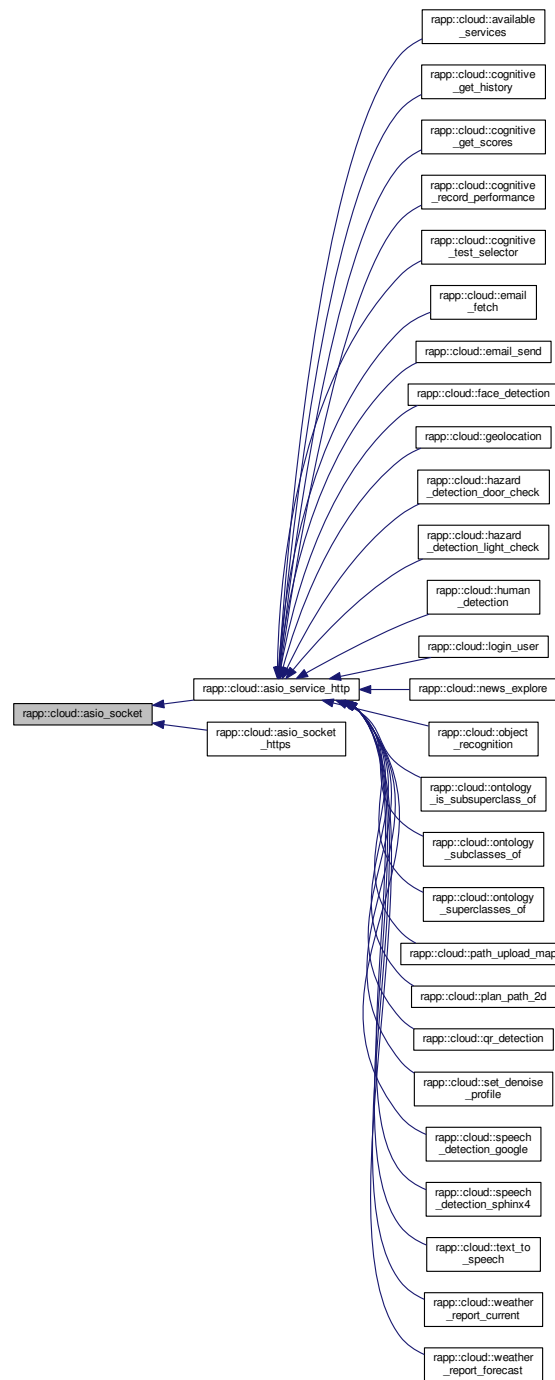
## 6.3 rapp::cloud::asio\_socket Class Reference

Abstract Base ASIO Socket class Use for passing around to the service controller, various types of cloud handlers. This Interface is needed so that different handlers can be passed to the scheduler transparently.

```
#include <asio_socket.hpp>
```



Inheritance diagram for rapp::cloud::asio\_socket:



## Public Member Functions

- virtual void [schedule](#) (boost::asio::ip::tcp::resolver::query &, boost::asio::ip::tcp::resolver &, boost::asio::io\_service &)=0

### 6.3.1 Detailed Description

Abstract Base ASIO Socket class Use for passing around to the service controller, various types of cloud handlers. This Interface is needed so that different handlers can be passed to the scheduler transparently.

Version

2

Date

26-April-2015

Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 22 of file asio\_socket.hpp.

### 6.3.2 Member Function Documentation

**6.3.2.1** `virtual void rapp::cloud::asio_socket::schedule ( boost::asio::ip::tcp::resolver::query & , boost::asio::ip::tcp::resolver & , boost::asio::io_service & ) [pure virtual]`

schedule this object as a job for ASIO execution

Parameters

<i>query</i>	defines the actual URL/URI
<i>resolver</i>	is the URL/URI resolver reference
<i>io_service</i>	is the service queue on which this job will be scheduled to run

Implemented in [rapp::cloud::asio\\_socket\\_https](#), and [rapp::cloud::asio\\_service\\_http](#).

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

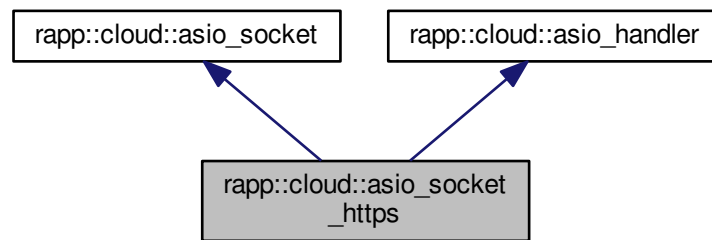
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/asio\\_socket/asio\\_socket.hpp](#)

## 6.4 rapp::cloud::asio\_socket\_https Class Reference

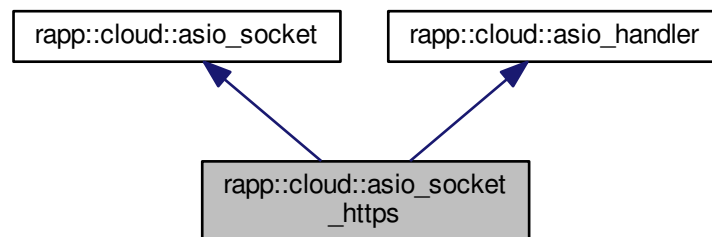
wrapper for SSL/TLS secure HTTP communication

```
#include <asio_socket_https.hpp>
```

Inheritance diagram for rapp::cloud::asio\_socket\_https:



Collaboration diagram for rapp::cloud::asio\_socket\_https:



## Public Types

- typedef  
`boost::asio::ssl::stream`  
`< boost::asio::ip::tcp::socket >` [boost\\_tls\\_socket](#)  
*boost tls wraps around a tcp socket*

## Public Member Functions

- [asio\\_socket\\_https](#) (const std::string token)  
*construct using:*
- void [schedule](#) (boost::asio::ip::tcp::resolver::query &query, boost::asio::ip::tcp::resolver &resolver, boost::asio::io\_service &io\_service)

## Protected Member Functions

- void [check\\_timeout](#) ()  
*check timed-out*
- void [handle\\_connect](#) (const boost::system::error\_code &error)

- begin connect*
- void [handle\\_handshake](#) (const boost::system::error\_code &error)  
*handle handshake*
- void [handle\\_read\\_content](#) (const boost::system::error\_code &err)  
*Callback for Handling Actual Data Contents.*
- void [handle\\_read\\_headers](#) (const boost::system::error\_code &err)  
*Callback for Handling Headers.*
- void [handle\\_read\\_status\\_line](#) (const boost::system::error\_code &err)  
*Callback for handling HTTP Header Response Data.*
- void [handle\\_write](#) (const boost::system::error\_code &err)  
*Callback for handling request and waiting for response.*
- void [reset](#) ()  
*reset handler (clear data, bytes, etc) and stop connection*
- bool [verify\\_certificate](#) (bool preverified, boost::asio::ssl::verify\_context &ctx)  
*verify TLS certificate*

## Private Attributes

- boost::asio::ssl::context [ctx\\_](#)  
*tls context*
- std::unique\_ptr< [boost\\_tls\\_socket](#) > [tls\\_socket\\_](#)  
*tls/ssl socket wrapper*

## Additional Inherited Members

### 6.4.1 Detailed Description

wrapper for SSL/TLS secure HTTP communication

#### Version

0.6.0

#### Date

April 2016

#### Author

Alex Giokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file asio\_socket\_https.hpp.

### 6.4.2 Member Typedef Documentation

#### 6.4.2.1 `typedef boost::asio::ssl::stream<boost::asio::ip::tcp::socket> rapp::cloud::asio_socket_https::boost_tls_socket`

boost tls wraps around a tcp socket

Definition at line 17 of file asio\_socket\_https.hpp.

### 6.4.3 Constructor & Destructor Documentation

#### 6.4.3.1 rapp::cloud::asio\_socket\_https::asio\_socket\_https ( const std::string *token* )

construct using:

## Parameters

<i>token</i>	authentication token
<i>user</i>	<a href="#">rapp.cloud</a> username

Definition at line 24 of file asio\_socket\_https.hpp.

## 6.4.4 Member Function Documentation

**6.4.4.1** void `rapp::cloud::asio_socket_https::check_timeout ( )` `[protected]`

check timed-out

Definition at line 216 of file asio\_socket\_https.cpp.

**6.4.4.2** void `rapp::cloud::asio_socket_https::handle_connect ( const boost::system::error_code & error )` `[protected]`

begin connect

Definition at line 68 of file asio\_socket\_https.cpp.

**6.4.4.3** void `rapp::cloud::asio_socket_https::handle_handshake ( const boost::system::error_code & error )`  
`[protected]`

handle handshake

Definition at line 84 of file asio\_socket\_https.cpp.

**6.4.4.4** void `rapp::cloud::asio_socket_https::handle_read_content ( const boost::system::error_code & err )`  
`[protected]`

Callback for Handling Actual Data Contents.

## Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 179 of file asio\_socket\_https.cpp.

**6.4.4.5** void `rapp::cloud::asio_socket_https::handle_read_headers ( const boost::system::error_code & err )`  
`[protected]`

Callback for Handling Headers.

## Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 160 of file asio\_socket\_https.cpp.

**6.4.4.6** void `rapp::cloud::asio_socket_https::handle_read_status_line ( const boost::system::error_code & err )`  
`[protected]`

Callback for handling HTTP Header Response Data.

## Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 124 of file asio\_socket\_https.cpp.

**6.4.4.7** void rapp::cloud::asio\_socket\_https::handle\_write ( const boost::system::error\_code & *err* ) [protected]

Callback for handling request and waiting for response.

## Parameters

<i>err</i>	is a possible error
------------	---------------------

Definition at line 105 of file asio\_socket\_https.cpp.

**6.4.4.8** void rapp::cloud::asio\_socket\_https::reset ( ) [protected]

reset handler (clear data, bytes, etc) and stop connection

Definition at line 203 of file asio\_socket\_https.cpp.

**6.4.4.9** void rapp::cloud::asio\_socket\_https::schedule ( boost::asio::ip::tcp::resolver::query & *query*, boost::asio::ip::tcp::resolver & *resolver*, boost::asio::io\_service & *io\_service* ) [virtual]

schedule this as a job for execution

## Parameters

<i>query</i>	defines the URL/URI
<i>resolver</i>	resolves the URL/URI address
<i>io_service</i>	is the queue on which jobs are scheduled

Implements [rapp::cloud::asio\\_socket](#).

Definition at line 6 of file asio\_socket\_https.cpp.

**6.4.4.10** bool rapp::cloud::asio\_socket\_https::verify\_certificate ( bool *preverified*, boost::asio::ssl::verify\_context & *ctx* ) [protected]

verify TLS certificate

verify TLS certificate - WARNING: is this proper verification?

Definition at line 59 of file asio\_socket\_https.cpp.

## 6.4.5 Member Data Documentation

**6.4.5.1** boost::asio::ssl::context rapp::cloud::asio\_socket\_https::ctx\_ [private]

tls context

Definition at line 76 of file asio\_socket\_https.hpp.

**6.4.5.2** std::unique\_ptr<boost\_tls\_socket> rapp::cloud::asio\_socket\_https::tls\_socket\_ [private]

tls/ssl socket wrapper

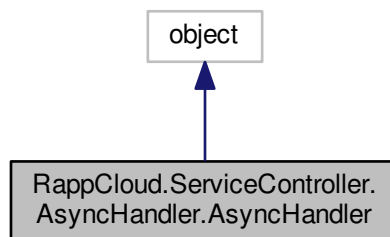
Definition at line 74 of file asio\_socket\_https.hpp.

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

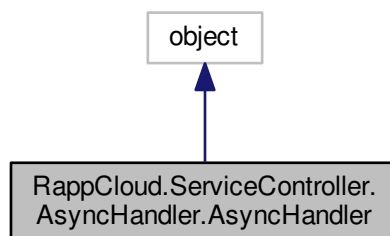
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/asio\\_socket\\_https/asio\\_socket\\_https.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.hpp)
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/asio\\_socket\\_https/asio\\_socket\\_https.cpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.cpp)

## 6.5 RappCloud.ServiceController.AsyncHandler.AsyncHandler Class Reference

Inheritance diagram for RappCloud.ServiceController.AsyncHandler.AsyncHandler:



Collaboration diagram for RappCloud.ServiceController.AsyncHandler.AsyncHandler:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*
- [def wait](#)

### Private Attributes

- [\\_\\_future](#)



### 6.5.1 Detailed Description

Synchronous service controller class implementation.

Definition at line 36 of file AsyncHandler.py.

### 6.5.2 Constructor & Destructor Documentation

6.5.2.1 `def RappCloud.ServiceController.AsyncHandler.AsyncHandler.__init__( self, future )`

Constructor.

Definition at line 39 of file AsyncHandler.py.

### 6.5.3 Member Function Documentation

6.5.3.1 `def RappCloud.ServiceController.AsyncHandler.AsyncHandler.wait( self, timeout=None )`

Definition at line 51 of file AsyncHandler.py.

### 6.5.4 Member Data Documentation

6.5.4.1 `RappCloud.ServiceController.AsyncHandler.AsyncHandler.__future` [private]

Definition at line 43 of file AsyncHandler.py.

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

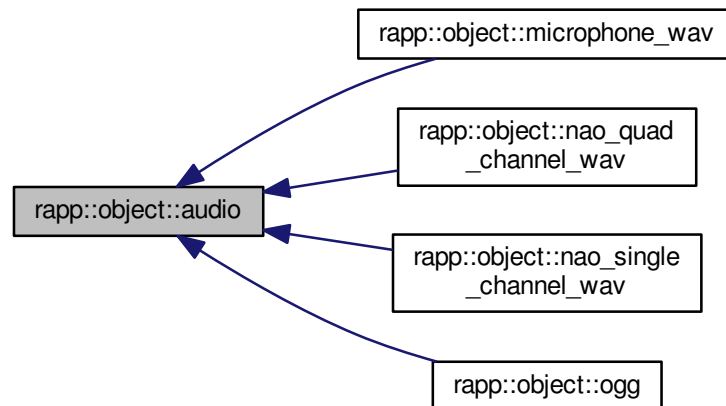
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/AsyncHandler.py`

## 6.6 rapp::object::audio Class Reference

class which wraps around raw bytes of an audiofile

```
#include <audio.hpp>
```

Inheritance diagram for `rapp::object::audio`:



## Public Member Functions

- `audio` (const std::string filepath)  
*Construct from a file on disk.*
- `audio` (std::ifstream &bytestream)  
*Construct using an open file stream.*
- `audio` (std::vector< `rapp::types::byte` > bytearray)  
*construct using an existing byte-array*
- `audio` (const `audio` &)=default  
*Copy constructor.*
- virtual std::string `audio_source` () const
- std::vector< `rapp::types::byte` > `bytearray` () const  
*Get audio as array of bytes.*
- virtual std::string `extension` () const
- `audio` & `operator=` (const `audio` &)=default  
*Assignment operator.*
- bool `operator==` (const `audio` &rhs) const  
*Are audios same ?*
- bool `save` (const std::string filepath)  
*Save audio to filepath.*

## Private Member Functions

- `audio` ()=delete
- void `read_bytes` (std::ifstream &bytestream)

## Private Attributes

- std::vector< `rapp::types::byte` > `bytearray_`

### 6.6.1 Detailed Description

class which wraps around raw bytes of an audiofile

Version

2

Date

January-2016

Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file audio.hpp.

### 6.6.2 Constructor & Destructor Documentation

#### 6.6.2.1 rapp::object::audio::audio ( const std::string *filepath* )

Construct from a file on disk.

Definition at line 17 of file audio.hpp.

#### 6.6.2.2 rapp::object::audio::audio ( std::ifstream & *bytestream* )

Construct using an open file stream.

Parameters

<i>bytestream</i>	will be <b>consumed</b> by the object
-------------------	---------------------------------------

Definition at line 33 of file audio.hpp.

#### 6.6.2.3 rapp::object::audio::audio ( std::vector< rapp::types::byte > *bytearray* )

construct using an existing byte-array

Parameters

<i>bytearray</i>	should contain the audio data
------------------	-------------------------------

Definition at line 40 of file audio.hpp.

#### 6.6.2.4 rapp::object::audio::audio ( const audio & ) [default]

Copy constructor.

#### 6.6.2.5 rapp::object::audio::audio ( ) [private],[delete]

### 6.6.3 Member Function Documentation

#### 6.6.3.1 virtual std::string rapp::object::audio::audio\_source ( ) const [virtual]

Reimplemented in [rapp::object::microphone\\_wav](#), [rapp::object::nao\\_quad\\_channel\\_wav](#), [rapp::object::nao\\_single\\_channel\\_wav](#), and [rapp::object::ogg](#).

Definition at line 78 of file audio.hpp.

#### 6.6.3.2 `std::vector<rapp::types::byte> rapp::object::audio::bytearray ( ) const`

Get audio as array of bytes.

Definition at line 48 of file audio.hpp.

#### 6.6.3.3 `virtual std::string rapp::object::audio::extension ( ) const` `[virtual]`

Reimplemented in [rapp::object::microphone\\_wav](#), [rapp::object::nao\\_quad\\_channel\\_wav](#), [rapp::object::nao\\_single\\_channel\\_wav](#), and [rapp::object::ogg](#).

Definition at line 81 of file audio.hpp.

#### 6.6.3.4 `audio& rapp::object::audio::operator= ( const audio & )` `[default]`

Assignment operator.

#### 6.6.3.5 `bool rapp::object::audio::operator== ( const audio & rhs ) const`

Are audios same ?

Definition at line 54 of file audio.hpp.

#### 6.6.3.6 `void rapp::object::audio::read_bytes ( std::ifstream & bytestream )` `[private]`

Definition at line 90 of file audio.hpp.

#### 6.6.3.7 `bool rapp::object::audio::save ( const std::string filepath )`

Save audio to filepath.

Definition at line 64 of file audio.hpp.

### 6.6.4 Member Data Documentation

#### 6.6.4.1 `std::vector<rapp::types::byte> rapp::object::audio::bytearray_` `[private]`

Definition at line 100 of file audio.hpp.

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

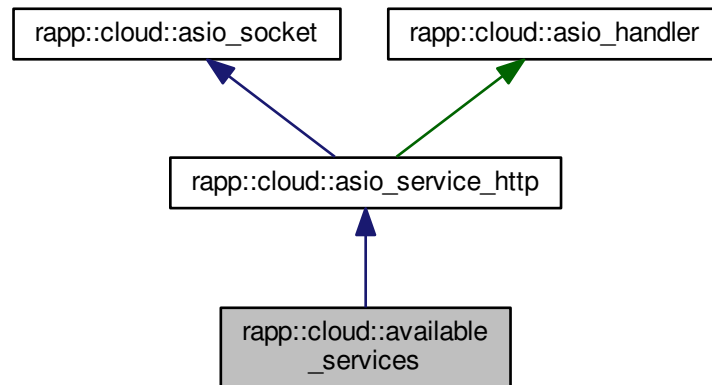
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/objects/audio/audio.hpp](#)

## 6.7 `rapp::cloud::available_services` Class Reference

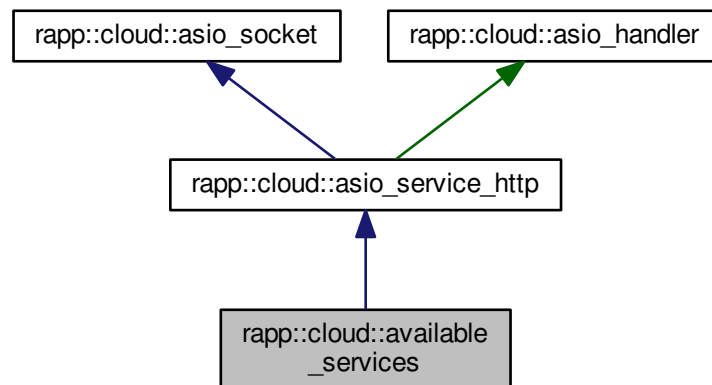
requests available services from platform

```
#include <available_services.hpp>
```

Inheritance diagram for rapp::cloud::available\_services:



Collaboration diagram for rapp::cloud::available\_services:



## Public Member Functions

- [available\\_services](#) (const std::string token, std::function< void(std::vector< std::string >)> callback)  
*construct without any special parameters*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- `std::function< void(std::vector< std::string > services)>` [delegate\\_](#)

## Additional Inherited Members

### 6.7.1 Detailed Description

requests available services from platform

#### Version

0.6.0

#### Date

May 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `available_services.hpp`.

### 6.7.2 Constructor & Destructor Documentation

**6.7.2.1** `rapp::cloud::available_services::available_services ( const std::string token, std::function< void(std::vector< std::string >)> callback )`

construct without any special parameters

#### Parameters

<i>callback</i>	will receive a vector of services strings
-----------------	---

Definition at line 20 of file `available_services.hpp`.

### 6.7.3 Member Function Documentation

**6.7.3.1** `void rapp::cloud::available_services::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 33 of file `available_services.hpp`.

### 6.7.4 Member Data Documentation

**6.7.4.1** `std::function<void(std::vector<std::string> services)>` `rapp::cloud::available_services::delegate_` `[private]`

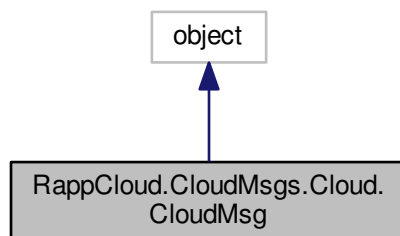
Definition at line 58 of file `available_services.hpp`.

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

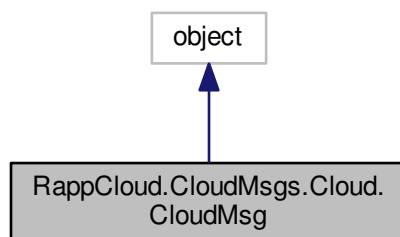
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/available_services.hpp`

## 6.8 RappCloud.CloudMsgs.Cloud.CloudMsg Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Cloud.CloudMsg:



Collaboration diagram for RappCloud.CloudMsgs.Cloud.CloudMsg:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [svcname](#)

### Private Attributes

- [\\_svcname](#)

### 6.8.1 Detailed Description

Cloud Message base class implementation. Inherit to implement service specific cloud message objects

Definition at line 2 of file Cloud.py.

## 6.8.2 Constructor & Destructor Documentation

6.8.2.1 `def RappCloud.CloudMsgs.Cloud.CloudMsg.__init__( self, svcname = "", kwargs )`

Definition at line 7 of file Cloud.py.

## 6.8.3 Member Function Documentation

6.8.3.1 `def RappCloud.CloudMsgs.Cloud.CloudMsg.svcname( self )`

Definition at line 18 of file Cloud.py.

## 6.8.4 Member Data Documentation

6.8.4.1 `RappCloud.CloudMsgs.Cloud.CloudMsg._svcname` [private]

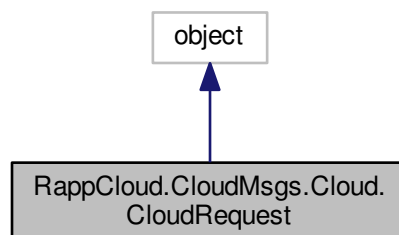
Definition at line 8 of file Cloud.py.

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

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py`

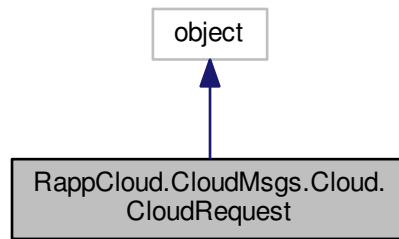
## 6.9 RappCloud.CloudMsgs.Cloud.CloudRequest Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Cloud.CloudRequest:





Collaboration diagram for RappCloud.CloudMsgs.Cloud.CloudRequest:



## Public Member Functions

- `def \_\_init\_\_`
- `def \_\_eq\_\_`  
*Equality method.*
- `def make\_files`  
*Abstract methor.*
- `def make\_payload`  
*Abstract method.*
- `def serialize`  
*Serialize [CloudRequest](#) object to dictionary.*
- `def set`

### 6.9.1 Detailed Description

Cloud request base class implementation. Inheric to implement Cloud Message specific Request objects.

Definition at line 24 of file Cloud.py.

### 6.9.2 Constructor & Destructor Documentation

6.9.2.1 `def RappCloud.CloudMsgs.Cloud.CloudRequest.__init__( self, kwargs )`

Definition at line 28 of file Cloud.py.

### 6.9.3 Member Function Documentation

6.9.3.1 `def RappCloud.CloudMsgs.Cloud.CloudRequest.__eq__( self, other )`

Equality method.

Definition at line 37 of file Cloud.py.

#### 6.9.3.2 `def RappCloud.CloudMsgs.Cloud.CloudRequest.make_files ( self )`

Abstract methor.

Return Array of File [Objects](#).

##### Returns

Array - Array of File [Objects](#).

Definition at line 55 of file Cloud.py.

#### 6.9.3.3 `def RappCloud.CloudMsgs.Cloud.CloudRequest.make_payload ( self )`

Abstract method.

Return Payload Object.

##### Returns

Payload - The Payload object

Definition at line 47 of file Cloud.py.

#### 6.9.3.4 `def RappCloud.CloudMsgs.Cloud.CloudRequest.serialize ( self )`

Serialize [CloudRequest](#) object to dictionary.

##### Returns

Dictionary - Serialized [CloudRequest](#) object.

Definition at line 63 of file Cloud.py.

#### 6.9.3.5 `def RappCloud.CloudMsgs.Cloud.CloudRequest.set ( self, key, val )`

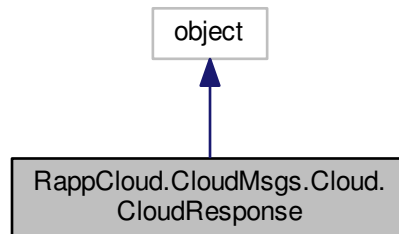
Definition at line 42 of file Cloud.py.

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

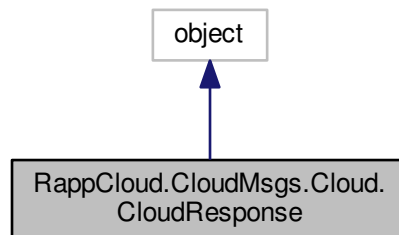
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py](#)

## 6.10 RappCloud.CloudMsgs.Cloud.CloudResponse Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Cloud.CloudResponse:



Collaboration diagram for RappCloud.CloudMsgs.Cloud.CloudResponse:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [\\_\\_eq\\_\\_](#)  
*Equality method.*
- def [serialize](#)  
*Serialize [CloudResponse](#) object to dictionary.*
- def [set](#)

#### 6.10.1 Detailed Description

Cloud Response base class implementation. Inherit to implement Cloud Object specific Response objects.

Definition at line 73 of file Cloud.py.

## 6.10.2 Constructor & Destructor Documentation

### 6.10.2.1 `def RappCloud.CloudMsgs.Cloud.CloudResponse.__init__( self, kwargs )`

Definition at line 77 of file Cloud.py.

## 6.10.3 Member Function Documentation

### 6.10.3.1 `def RappCloud.CloudMsgs.Cloud.CloudResponse.__eq__( self, other )`

Equality method.

Definition at line 85 of file Cloud.py.

### 6.10.3.2 `def RappCloud.CloudMsgs.Cloud.CloudResponse.serialize( self )`

Serialize [CloudResponse](#) object to dictionary.

#### Returns

Dictionary - Serialized [CloudResponse](#) object.

Definition at line 95 of file Cloud.py.

### 6.10.3.3 `def RappCloud.CloudMsgs.Cloud.CloudResponse.set( self, key, val )`

Definition at line 90 of file Cloud.py.

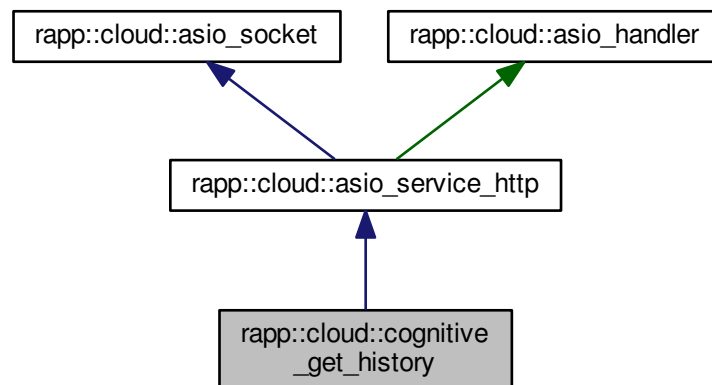
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py`

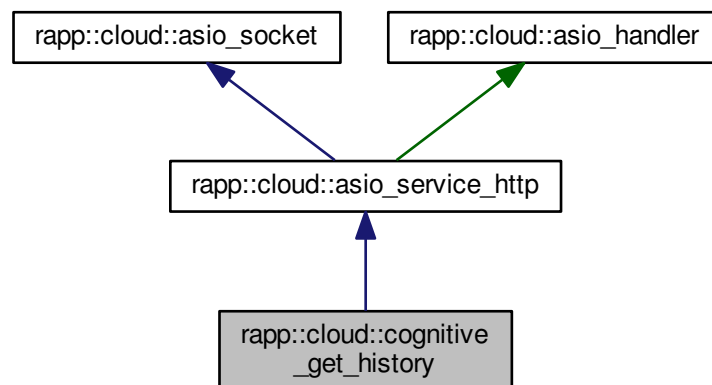
## 6.11 `rapp::cloud::cognitive_get_history` Class Reference

```
#include <cognitive_exercises.hpp>
```

Inheritance diagram for rapp::cloud::cognitive\_get\_history:



Collaboration diagram for rapp::cloud::cognitive\_get\_history:



## Public Member Functions

- `cognitive_get_history` (unsigned int from\_time, unsigned int to\_time, const std::string test\_type, const std::string token, std::function< void(std::string)> callback)  
*get history of cognitive game*

## Private Member Functions

- void `handle_reply` (std::string json)  
*forward (don't parse) platform reply*

## Private Attributes

- `std::function< void(std::string)>` [delegate\\_](#)

## Additional Inherited Members

### 6.11.1 Detailed Description

#### Version

0.6.0

#### Date

May 2016

#### Author

Alex Giokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 184 of file `cognitive_exercises.hpp`.

### 6.11.2 Constructor & Destructor Documentation

- 6.11.2.1 `rapp::cloud::cognitive_get_history::cognitive_get_history ( unsigned int from_time, unsigned int to_time, const std::string test_type, const std::string token, std::function< void(std::string)> callback )`

get history of cognitive game

#### Parameters

<i>from_time</i>	is a unix timestamp
<i>to_time</i>	is a unix timestamp
<i>test_type</i>	is the cognitive test
<i>token</i>	is the rapp authentication token
<i>callback</i>	will receive a JSON reply

Definition at line 195 of file `cognitive_exercises.hpp`.

### 6.11.3 Member Function Documentation

- 6.11.3.1 `void rapp::cloud::cognitive_get_history::handle_reply ( std::string json )` `[private]`

forward (don't parse) platform reply

Definition at line 220 of file `cognitive_exercises.hpp`.

### 6.11.4 Member Data Documentation

- 6.11.4.1 `std::function<void(std::string)>` `rapp::cloud::cognitive_get_history::delegate_` `[private]`

Definition at line 226 of file `cognitive_exercises.hpp`.

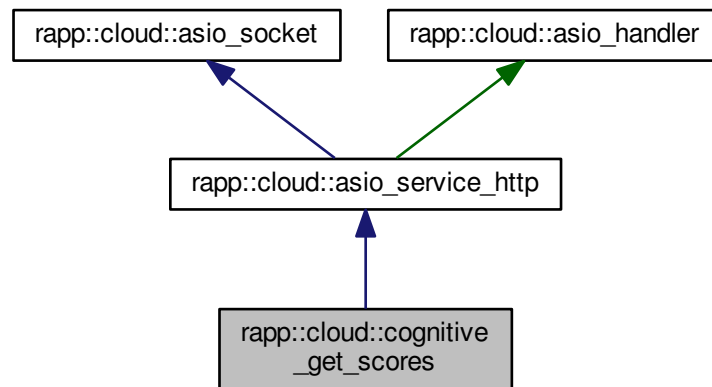
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp`

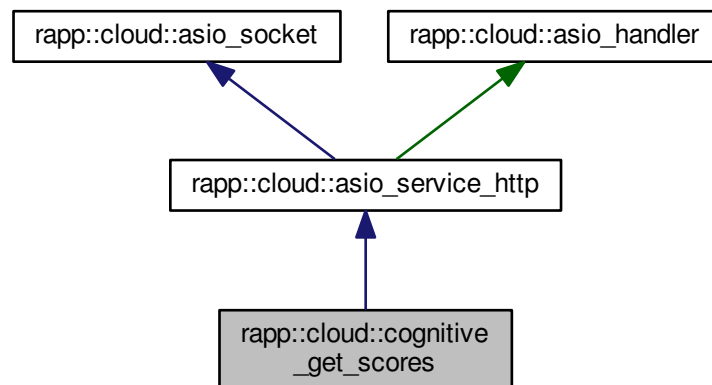
## 6.12 rapp::cloud::cognitive\_get\_scores Class Reference

```
#include <cognitive_exercises.hpp>
```

Inheritance diagram for rapp::cloud::cognitive\_get\_scores:



Collaboration diagram for rapp::cloud::cognitive\_get\_scores:



### Public Member Functions

- `cognitive_get_scores` (unsigned int up\_to\_time, const std::string test\_type, const std::string token, std::function< void(std::vector< unsigned int >, std::vector< float >)> callback)  
*get cognitive test scores*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::vector< unsigned int >, std::vector< float >)> [delegate\\_](#)

## Additional Inherited Members

### 6.12.1 Detailed Description

#### Version

0.6.0

#### Date

May 2016

#### Author

Alex Giokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 235 of file `cognitive_exercises.hpp`.

### 6.12.2 Constructor & Destructor Documentation

- 6.12.2.1 `rapp::cloud::cognitive_get_scores::cognitive_get_scores ( unsigned int up_to_time, const std::string test_type, const std::string token, std::function< void(std::vector< unsigned int >, std::vector< float >)> callback )`

get cognitive test scores

#### Parameters

<i>up_to_time</i>	defines scores queried up to that unix timestamp
<i>test_type</i>	the test type
<i>token</i>	the rapp authentication token
<i>callback</i>	will receive an array of test classes and respective scores

Definition at line 245 of file `cognitive_exercises.hpp`.

### 6.12.3 Member Function Documentation

- 6.12.3.1 `void rapp::cloud::cognitive_get_scores::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 269 of file `cognitive_exercises.hpp`.



#### 6.12.4 Member Data Documentation

6.12.4.1 `std::function<void(std::vector<unsigned int>, std::vector<float>)>` rapp::cloud::cognitive\_get\_scores::delegate\_  
[private]

Definition at line 301 of file cognitive\_exercises.hpp.

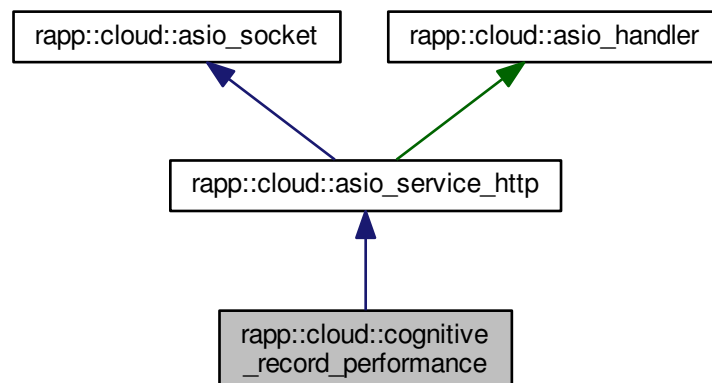
The documentation for this class was generated from the following file:

- /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/cognitive\_exercises/cognitive\_exercises.hpp

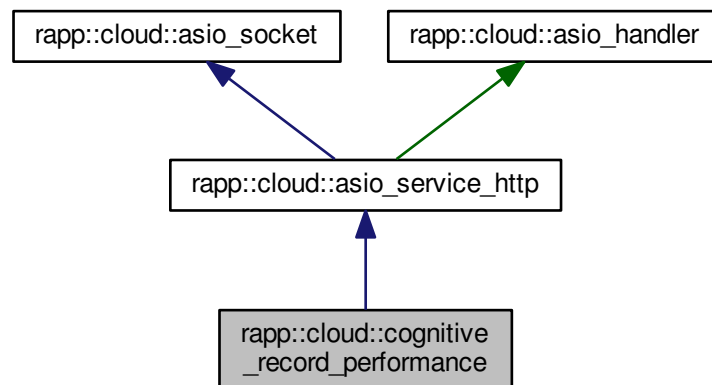
### 6.13 rapp::cloud::cognitive\_record\_performance Class Reference

```
#include <cognitive_exercises.hpp>
```

Inheritance diagram for rapp::cloud::cognitive\_record\_performance:



Collaboration diagram for `rapp::cloud::cognitive_record_performance`:



## Public Member Functions

- [cognitive\\_record\\_performance](#) (const std::string test\_instance, const float score, const std::string token, std::function< void(std::string)> callback)  
*record performance for a cognitive test*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::string)> [delegate\\_](#)

## Additional Inherited Members

### 6.13.1 Detailed Description

#### Version

0.6.0

#### Date

May-2016

#### Author

Alex Giokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 115 of file `cognitive_exercises.hpp`.

### 6.13.2 Constructor & Destructor Documentation

6.13.2.1 `rapp::cloud::cognitive_record_performance::cognitive_record_performance ( const std::string test_instance, const float score, const std::string token, std::function< void(std::string)> callback )`

record performance for a cognitive test

Parameters

<i>test_instance</i>	sets the actual test
<i>score</i>	is the recorded score
<i>token</i>	is the rapp authentication token
<i>callback</i>	receives the platform's response

Definition at line 125 of file `cognitive_exercises.hpp`.

### 6.13.3 Member Function Documentation

6.13.3.1 `void rapp::cloud::cognitive_record_performance::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 148 of file `cognitive_exercises.hpp`.

### 6.13.4 Member Data Documentation

6.13.4.1 `std::function<void(std::string)> rapp::cloud::cognitive_record_performance::delegate_` `[private]`

Definition at line 175 of file `cognitive_exercises.hpp`.

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

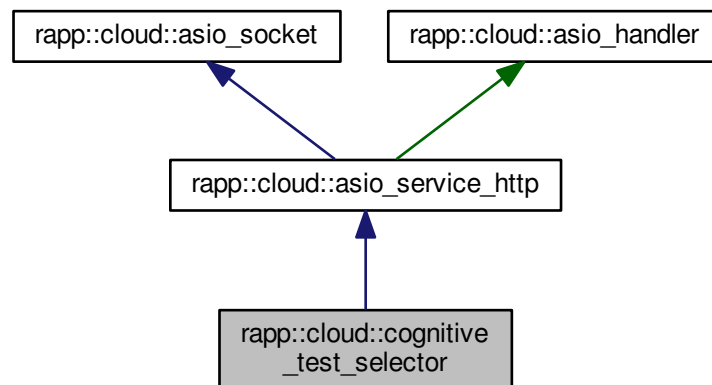
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp`

## 6.14 rapp::cloud::cognitive\_test\_selector Class Reference

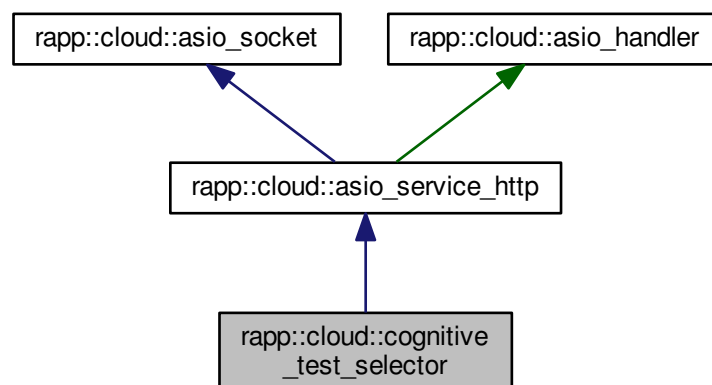
chose a cognitive game to play

```
#include <cognitive_exercises.hpp>
```

Inheritance diagram for `rapp::cloud::cognitive_test_selector`:



Collaboration diagram for `rapp::cloud::cognitive_test_selector`:



## Public Member Functions

- `cognitive_test_selector` (const std::string user, const std::string test\_type, const std::string token, std::function< void(std::vector< std::string >, std::vector< std::string >, std::vector< std::string >, std::string, std::string, std::string)> callback)  
*handler obtains a cognitive test from cloud.rapp*

## Private Member Functions

- void `handle_reply` (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- `std::function< void(std::vector< std::string >, std::vector< std::string >, std::vector< std::string >, std::string, std::string, std::string)> delegate_`

## Additional Inherited Members

### 6.14.1 Detailed Description

chose a cognitive game to play

#### Version

0.6.0

#### Date

April 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `cognitive_exercises.hpp`.

### 6.14.2 Constructor & Destructor Documentation

6.14.2.1 `rapp::cloud::cognitive_test_selector::cognitive_test_selector ( const std::string user, const std::string test_type, const std::string token, std::function< void(std::vector< std::string >, std::vector< std::string >, std::vector< std::string >, std::string, std::string, std::string)> callback )`

handler obtains a cognitive test from `cloud.rapp`

#### Parameters

<i>user</i>	set the user
<i>test_type</i>	set the test type
<i>callback</i>	receives arrays of strings and strings

Definition at line 22 of file `cognitive_exercises.hpp`.

### 6.14.3 Member Function Documentation

6.14.3.1 `void rapp::cloud::cognitive_test_selector::handle_reply ( std::string json ) [private]`

handle platform's JSON reply

Definition at line 49 of file `cognitive_exercises.hpp`.

### 6.14.4 Member Data Documentation

6.14.4.1 `std::function<void(std::vector<std::string>, std::vector<std::string>, std::vector<std::string>, std::string, std::string, std::string)> rapp::cloud::cognitive_test_selector::delegate_ [private]`

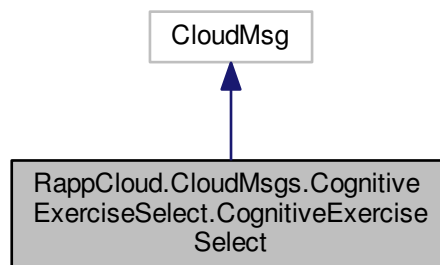
Definition at line 106 of file `cognitive_exercises.hpp`.

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

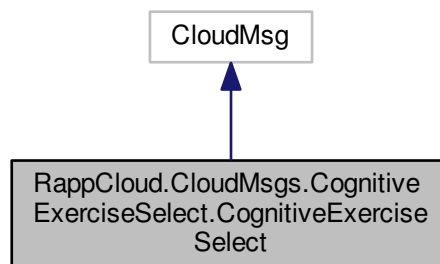
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp`

## 6.15 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect`:



Collaboration diagram for `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect`:



### Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- `def __init__`  
*Constructor.*

## Public Attributes

- `req`
- `resp`

### 6.15.1 Detailed Description

Cognitive Exercise Select Cloud Message object

For more information on available exercises have a look at:  
[https://github.com/rapp-project/rapp-platform/tree/master/rapp\\_cognitive\\_exercise](https://github.com/rapp-project/rapp-platform/tree/master/rapp_cognitive_exercise)

Definition at line 11 of file CognitiveExerciseSelect.py.

### 6.15.2 Constructor & Destructor Documentation

#### 6.15.2.1 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	<div>- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none"><li>• <code>Request.test_type</code></li><li>• <code>Request.test_subtype</code></li><li>• <code>Request.test_diff</code></li><li>• <code>Request.test_index</code></li></ul></div>
-----------------------	--

Definition at line 104 of file CognitiveExerciseSelect.py.

### 6.15.3 Member Data Documentation

#### 6.15.3.1 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.req`

Definition at line 116 of file CognitiveExerciseSelect.py.

#### 6.15.3.2 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.resp`

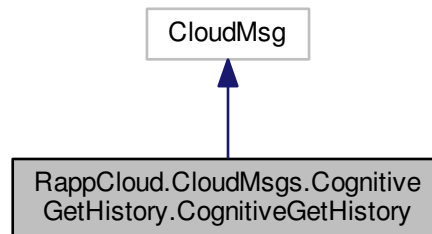
Definition at line 118 of file CognitiveExerciseSelect.py.

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

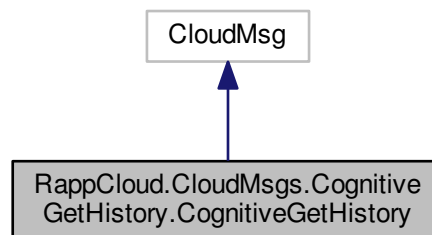
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py`

## 6.16 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)



### 6.16.1 Detailed Description

Cognitive Get History Cloud Message object

Definition at line 11 of file CognitiveGetHistory.py.

### 6.16.2 Constructor & Destructor Documentation

6.16.2.1 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	<ul style="list-style-type: none"><li>- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none"><li>• <a href="#">Request.test_type</a></li><li>• <a href="#">Request.time_from</a></li><li>• <a href="#">Request.time_to</a></li></ul></li></ul>
------------------------------	---

Definition at line 78 of file CognitiveGetHistory.py.

### 6.16.3 Member Data Documentation

6.16.3.1 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.req`

Definition at line 89 of file CognitiveGetHistory.py.

6.16.3.2 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.resp`

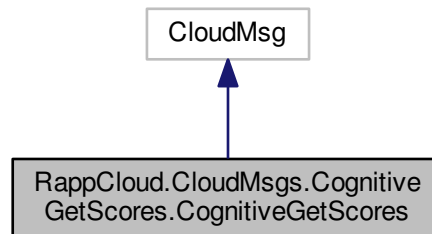
Definition at line 91 of file CognitiveGetHistory.py.

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

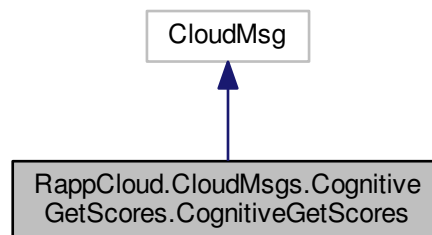
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py`

## 6.17 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.17.1 Detailed Description

Cognitive Get Scores Cloud Message object

Definition at line 11 of file CognitiveGetScores.py.

### 6.17.2 Constructor & Destructor Documentation

6.17.2.1 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword argumen.ts. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <a href="#">Request.test_type</a></li><li>• <a href="#">Request.time_to</a></li></ul>
------------------------------	---

Definition at line 78 of file CognitiveGetScores.py.

### 6.17.3 Member Data Documentation

6.17.3.1 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.req`

Definition at line 88 of file CognitiveGetScores.py.

6.17.3.2 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.resp`

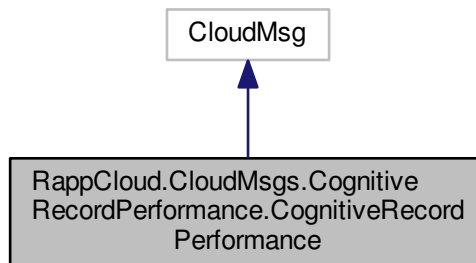
Definition at line 90 of file CognitiveGetScores.py.

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

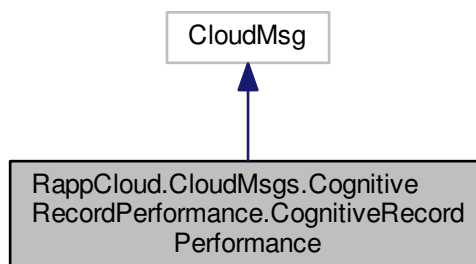
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py`

## 6.18 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.18.1 Detailed Description

Cognitive Record Performance Cloud Message object

Definition at line 11 of file CognitiveRecordPerformance.py.

### 6.18.2 Constructor & Destructor Documentation

6.18.2.1 `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	<ul style="list-style-type: none"><li>- Keyword arguments. Apply values to the request attributes.</li><li>• <a href="#">Request.test_instance</a></li><li>• <a href="#">Request.score</a></li></ul>
------------------------------	--

Definition at line 69 of file CognitiveRecordPerformance.py.

### 6.18.3 Member Data Documentation

6.18.3.1 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.req`

Definition at line 79 of file CognitiveRecordPerformance.py.

6.18.3.2 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.resp`

Definition at line 81 of file CognitiveRecordPerformance.py.

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

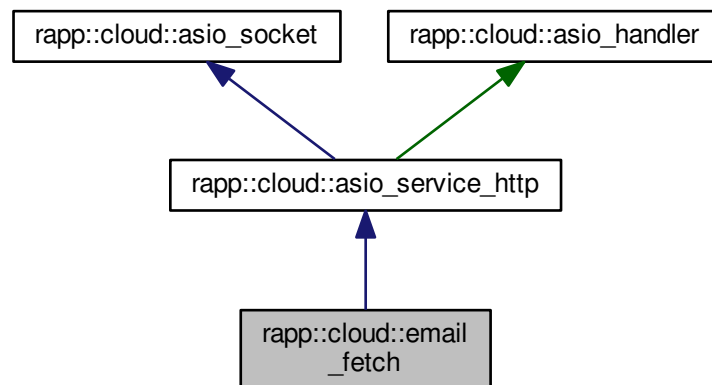
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py`

## 6.19 rapp::cloud::email\_fetch Class Reference

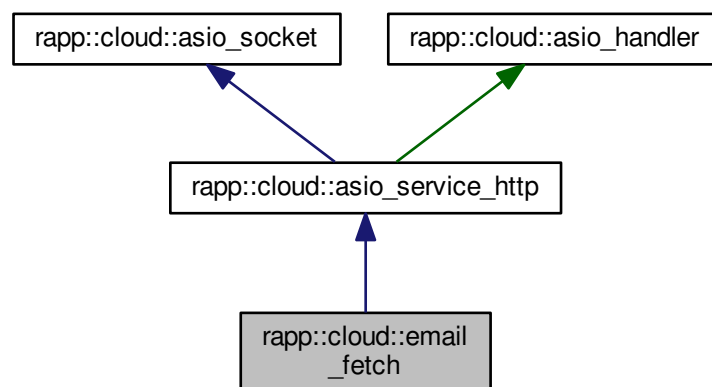
fetch email(s)

```
#include <email.hpp>
```

Inheritance diagram for `rapp::cloud::email_fetch`:



Collaboration diagram for `rapp::cloud::email_fetch`:



## Public Member Functions

- `email_fetch` (const std::string email, const std::string pwd, const std::string server, const std::string port, const std::string email\_status, const unsigned int from\_date, const unsigned int to\_date, const unsigned int num\_emails, const std::string token, std::function< void(std::string)> callback)  
*construct in order to acquire email(s)*

## Private Member Functions

- void `handle_reply` (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- `std::function< void(std::string)>` [delegate\\_](#)

## Additional Inherited Members

### 6.19.1 Detailed Description

fetch email(s)

Version

0.6.0

Date

May 2016

Definition at line 12 of file email.hpp.

### 6.19.2 Constructor & Destructor Documentation

**6.19.2.1** `rapp::cloud::email_fetch::email_fetch ( const std::string email, const std::string pwd, const std::string server, const std::string port, const std::string email_status, const unsigned int from_date, const unsigned int to_date, const unsigned int num_emails, const std::string token, std::function< void(std::string)> callback )`

construct in order to acquire email(s)

Parameters

<i>email</i>	user's email address
<i>pwd</i>	user's plain-text password
<i>server</i>	email imap address
<i>port</i>	email imap port
<i>email_status</i>	which mail is requested (ALL, UNSEEN)
<i>from_date</i>	fetch emails since date (unix timestamp)
<i>to_date</i>	fetch emails to date (unix timestamp)
<i>num_emails</i>	number of emails requested
<i>token</i>	rapp platform auth token
<i>callback</i>	will receive a JSON string with acquired email(s)

Definition at line 28 of file email.hpp.

### 6.19.3 Member Function Documentation

**6.19.3.1** `void rapp::cloud::email_fetch::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 63 of file email.hpp.

### 6.19.4 Member Data Documentation

**6.19.4.1** `std::function<void(std::string)>` `rapp::cloud::email_fetch::delegate_` `[private]`

Definition at line 70 of file email.hpp.

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

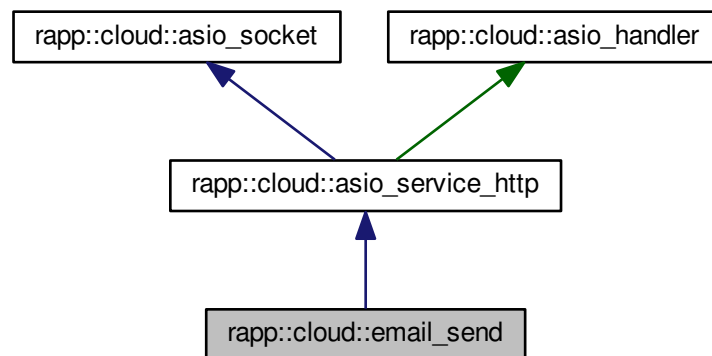
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/email/email.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp)

## 6.20 rapp::cloud::email\_send Class Reference

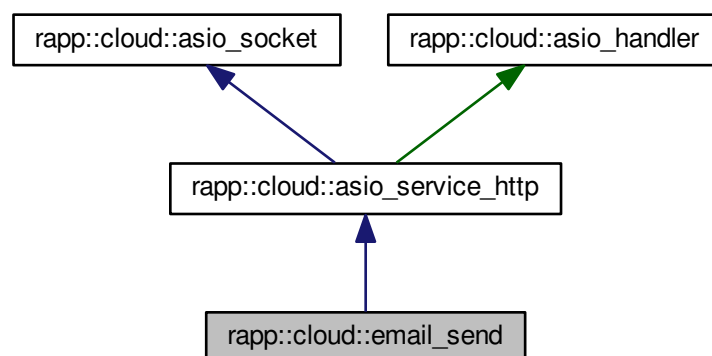
send an email

```
#include <email.hpp>
```

Inheritance diagram for rapp::cloud::email\_send:



Collaboration diagram for rapp::cloud::email\_send:



### Public Member Functions

- `email_send` (const std::string email, const std::string pwd, const std::string server, const std::string port, const std::vector< std::string > recipients, const std::string body, const std::string subject, const std::vector< rapp-



`::types::byte` > data, const std::string token, std::function< void(std::string)> callback)

*construct in order to send email*

## Private Member Functions

- void `handle_reply` (std::string json)

*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::string)> `delegate_`

## Additional Inherited Members

### 6.20.1 Detailed Description

send an email

Version

0.6.0

Date

May 2016

Definition at line 79 of file email.hpp.

### 6.20.2 Constructor & Destructor Documentation

6.20.2.1 `rapp::cloud::email_send::email_send ( const std::string email, const std::string pwd, const std::string server, const std::string port, const std::vector< std::string > recipients, const std::string body, const std::string subject, const std::vector< rapp::types::byte > data, const std::string token, std::function< void(std::string)> callback )`

construct in order to send email

Parameters

<i>email</i>	user's email address
<i>pwd</i>	user's plain-text password
<i>server</i>	email imap address
<i>port</i>	email imap port
<i>recipients</i>	vector of email addresses
<i>body</i>	email body
<i>subject</i>	email subject
<i>data</i>	data attached to the email
<i>token</i>	rapp platform auth token
<i>callback</i>	may receive a JSON reply of error(s)

Definition at line 95 of file email.hpp.

### 6.20.3 Member Function Documentation

6.20.3.1 `void rapp::cloud::email_send::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 145 of file email.hpp.

### 6.20.4 Member Data Documentation

6.20.4.1 `std::function<void(std::string)> rapp::cloud::email_send::delegate_` `[private]`

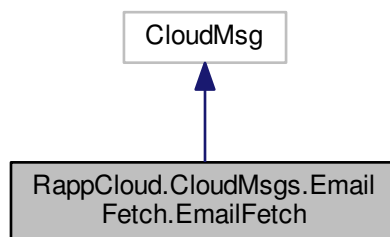
Definition at line 152 of file email.hpp.

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

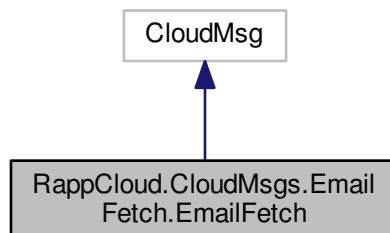
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp`

## 6.21 RappCloud.CloudMsgs.EmailFetch.EmailFetch Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch:



Collaboration diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.21.1 Detailed Description

Email Fetch Cloud Message object

Definition at line 11 of file EmailFetch.py.

### 6.21.2 Constructor & Destructor Documentation

6.21.2.1 def RappCloud.CloudMsgs.EmailFetch.EmailFetch.\_\_init\_\_( self, kwargs )

Constructor.

Parameters

<b>**kwargs</b>	<p>- Keyword arguments. Apply values to the request attributes.</p> <ul style="list-style-type: none"><li>• <a href="#">Request.email</a></li><li>• <a href="#">Request.password</a></li><li>• <a href="#">Request.server</a></li><li>• <a href="#">Request.port</a></li><li>• <a href="#">Request.date_from</a></li><li>• <a href="#">Request.date_to</a></li><li>• <a href="#">Request.email_status</a></li><li>• <a href="#">Request.num_emails</a></li></ul>
-----------------	--

Definition at line 94 of file EmailFetch.py.

### 6.21.3 Member Data Documentation

6.21.3.1 RappCloud.CloudMsgs.EmailFetch.EmailFetch.req

Definition at line 110 of file EmailFetch.py.

### 6.21.3.2 RappCloud.CloudMsgs.EmailFetch.EmailFetch.resp

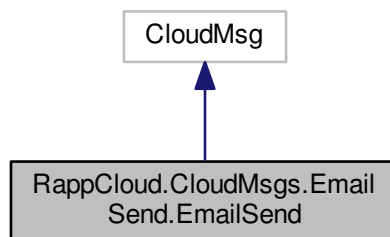
Definition at line 112 of file EmailFetch.py.

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

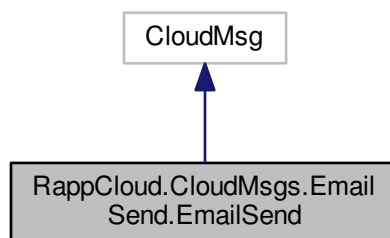
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[EmailFetch.py](#)

## 6.22 RappCloud.CloudMsgs.EmailSend.EmailSend Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailSend.EmailSend:



Collaboration diagram for RappCloud.CloudMsgs.EmailSend.EmailSend:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.22.1 Detailed Description

Email Send Cloud Message object

Definition at line 11 of file EmailSend.py.

### 6.22.2 Constructor & Destructor Documentation

6.22.2.1 `def RappCloud.CloudMsgs.EmailSend.EmailSend.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.email</a></li> <li>• <a href="#">Request.password</a></li> <li>• <a href="#">Request.server</a></li> <li>• <a href="#">Request.port</a></li> <li>• <a href="#">Request.recipients</a></li> <li>• <a href="#">Request.body</a></li> <li>• <a href="#">Request.subject</a></li> <li>• <a href="#">Request.attach_file</a></li> </ul>
------------------------------	--

Definition at line 93 of file EmailSend.py.

### 6.22.3 Member Data Documentation

6.22.3.1 `RappCloud.CloudMsgs.EmailSend.EmailSend.req`

Definition at line 109 of file EmailSend.py.

6.22.3.2 `RappCloud.CloudMsgs.EmailSend.EmailSend.resp`

Definition at line 111 of file EmailSend.py.

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

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py`

## 6.23 rapp::object::face Class Reference

describes a face coordinate (cartesian)

```
#include <face.hpp>
```

## Public Member Functions

- [face](#) (float *top\_left\_x*, float *top\_left\_y*, float *bottom\_right\_x*, float *bottom\_right\_y*)  
*Construct using face coordinates (a rectangle)*
- [face](#) ()=default  
*Allow empty constructor.*
- [face](#) (const [face](#) &)=default  
*Copy constructor.*
- bool [operator==](#) (const [face](#) &rhs) const  
*Equality operator.*

## Private Attributes

- float [bottom\\_right\\_x\\_\\_](#)
- float [bottom\\_right\\_y\\_\\_](#)
- float [top\\_left\\_x\\_\\_](#)
- float [top\\_left\\_y\\_\\_](#)

### 6.23.1 Detailed Description

describes a face coordinate (cartesian)

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `face.hpp`.

### 6.23.2 Constructor & Destructor Documentation

#### 6.23.2.1 `rapp::object::face::face ( float top_left_x, float top_left_y, float bottom_right_x, float bottom_right_y )`

Construct using face coordinates (a rectangle)

Definition at line 17 of file `face.hpp`.

#### 6.23.2.2 `rapp::object::face::face ( )` [default]

Allow empty constructor.

#### 6.23.2.3 `rapp::object::face::face ( const face & )` [default]

Copy constructor.

### 6.23.3 Member Function Documentation

#### 6.23.3.1 bool rapp::object::face::operator== ( const face & rhs ) const

Equality operator.

Definition at line 36 of file face.hpp.

### 6.23.4 Member Data Documentation

#### 6.23.4.1 float rapp::object::face::bottom\_right\_x\_\_ [private]

Definition at line 47 of file face.hpp.

#### 6.23.4.2 float rapp::object::face::bottom\_right\_y\_\_ [private]

Definition at line 48 of file face.hpp.

#### 6.23.4.3 float rapp::object::face::top\_left\_x\_\_ [private]

Definition at line 45 of file face.hpp.

#### 6.23.4.4 float rapp::object::face::top\_left\_y\_\_ [private]

Definition at line 46 of file face.hpp.

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

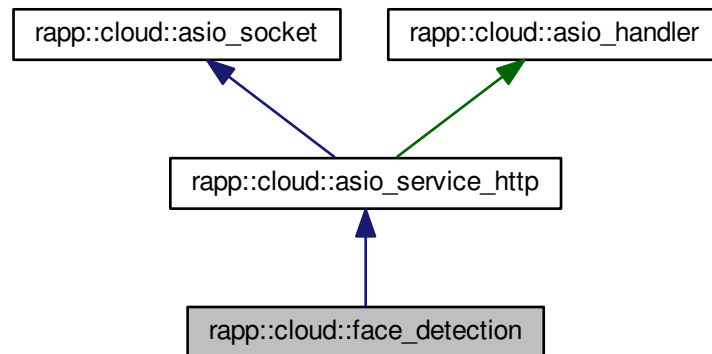
- /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/face/[face.hpp](#)

## 6.24 rapp::cloud::face\_detection Class Reference

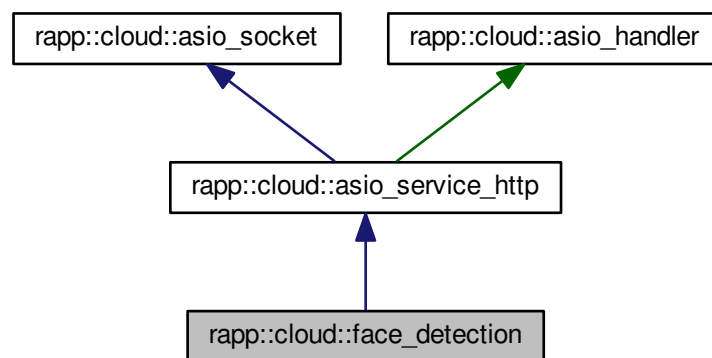
Asynchronous Service which will request the cloud to detect faces.

```
#include <face_detection.hpp>
```

Inheritance diagram for `rapp::cloud::face_detection`:



Collaboration diagram for `rapp::cloud::face_detection`:



## Public Member Functions

- [face\\_detection](#) (const std::shared\_ptr< [rapp::object::picture](#) > image, bool fast, const std::string token, std::function< void(std::vector< [rapp::object::face](#) >)> callback)

*Constructor.*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)

*handle the rapp-platform JSON reply*



## Private Attributes

- `std::function< void(std::vector< rapp::object::face >)> delegate_`

*The callback called upon completion of receiving the detected faces.*

## Additional Inherited Members

### 6.24.1 Detailed Description

Asynchronous Service which will request the cloud to detect faces.

#### Version

0.6.0

#### Date

April 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `face_detection.hpp`.

### 6.24.2 Constructor & Destructor Documentation

6.24.2.1 `rapp::cloud::face_detection::face_detection ( const std::shared_ptr< rapp::object::picture > image, bool fast, const std::string token, std::function< void(std::vector< rapp::object::face >)> callback )`

Constructor.

#### Parameters

<i>image</i>	is the input image
--------------	--------------------

#### See Also

[rapp::object::picture](#)

#### Parameters

<i>fast</i>	defines if this will be a fast call or not.
<i>callback</i>	is the function that will receive a vector of detected face(s)

Definition at line 22 of file `face_detection.hpp`.

### 6.24.3 Member Function Documentation

6.24.3.1 `void rapp::cloud::face_detection::handle_reply ( std::string json ) [private]`

handle the rapp-platform JSON reply

Definition at line 61 of file `face_detection.hpp`.

## 6.24.4 Member Data Documentation

### 6.24.4.1 `std::function<void(std::vector<rapp::object::face>)> rapp::cloud::face_detection::delegate_` [private]

The callback called upon completion of receiving the detected faces.

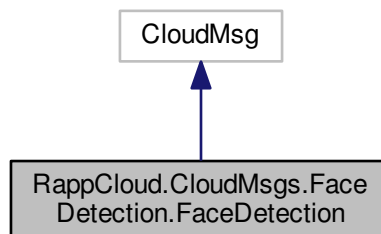
Definition at line 115 of file `face_detection.hpp`.

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

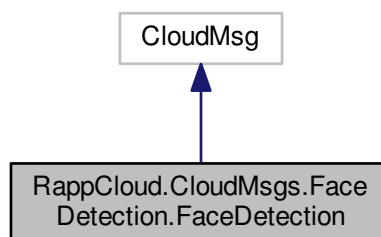
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/vision/face\\_detection/face\\_detection.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/face_detection.hpp)

## 6.25 RappCloud.CloudMsgs.FaceDetection.FaceDetection Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.FaceDetection.FaceDetection`:



Collaboration diagram for `RappCloud.CloudMsgs.FaceDetection.FaceDetection`:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.25.1 Detailed Description

Face Detection CloudMsg object

Definition at line 11 of file FaceDetection.py.

### 6.25.2 Constructor & Destructor Documentation

#### 6.25.2.1 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.fast</a></li> <li>• <a href="#">Request.imageFilepath</a></li> </ul>
------------------------------	--

Definition at line 63 of file FaceDetection.py.

### 6.25.3 Member Data Documentation

#### 6.25.3.1 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.req`

Definition at line 73 of file FaceDetection.py.

#### 6.25.3.2 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.resp`

Definition at line 75 of file FaceDetection.py.

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

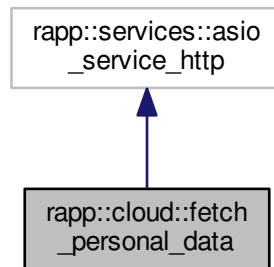
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py`

## 6.26 rapp::cloud::fetch\_personal\_data Class Reference

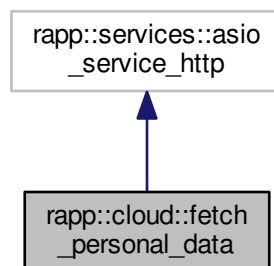
Get all personal data for a specific user.

```
#include <fetch_personal_data.hpp>
```

Inheritance diagram for `rapp::cloud::fetch_personal_data`:



Collaboration diagram for `rapp::cloud::fetch_personal_data`:



## Public Member Functions

- `fetch_personal_data` (const std::string user, std::function< void(const std::string) > callback)  
*Constructor for obtained personal (JSON) data for a specific user.*

## Private Member Functions

- void `handle_reply` (std::string json)

## Private Attributes

- std::function< void(const std::string)> `delegate__`  
*The callback called upon completion of receiving the detected faces.*

### 6.26.1 Detailed Description

Get all personal data for a specific user.

Version

1

Date

18-April-2015

Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file fetch\_personal\_data.hpp.

### 6.26.2 Constructor & Destructor Documentation

6.26.2.1 `rapp::cloud::fetch_personal_data::fetch_personal_data ( const std::string user, std::function< void(const std::string)> callback )`

Constructor for obtained personal (JSON) data for a specific user.

Parameters

<i>user</i>	is the string username as stored in the database
<i>callback</i>	is the functor that will received the obtained data

Note

this is asynchronous, not serial, execution time may vary

Definition at line 23 of file fetch\_personal\_data.hpp.

### 6.26.3 Member Function Documentation

6.26.3.1 `void rapp::cloud::fetch_personal_data::handle_reply ( std::string json )` [private]

Get reply and send it directly to delegate

Note

we do not do any parsing at all here

Definition at line 47 of file fetch\_personal\_data.hpp.

### 6.26.4 Member Data Documentation

6.26.4.1 `std::function<void(const std::string)> rapp::cloud::fetch_personal_data::delegate__` [private]

The callback called upon completion of receiving the detected faces.

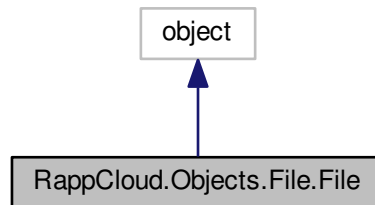
Definition at line 53 of file fetch\_personal\_data.hpp.

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

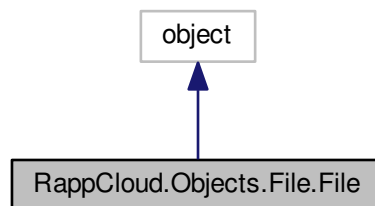
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/fetch\\_personal\\_data/fetch\\_personal\\_data.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/fetch_personal_data.hpp)

## 6.27 RappCloud.Objects.File.File Class Reference

Inheritance diagram for RappCloud.Objects.File.File:



Collaboration diagram for RappCloud.Objects.File.File:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*
- def [\\_\\_eq\\_\\_](#)  
*Equality method.*
- def [make\\_tuple](#)
- def [path](#)  
*file path getter*
- def [path](#)  
*file path setter*
- def [postfield](#)  
*Post field name getter.*
- def [postfield](#)  
*Post field name setter.*
- def [serialize](#)

## Private Attributes

- [\\_\\_boundarySize](#)
- [\\_\\_path](#)
- [\\_\\_postfield](#)

### 6.27.1 Detailed Description

File object class

Definition at line 32 of file File.py.

### 6.27.2 Constructor & Destructor Documentation

6.27.2.1 `def RappCloud.Objects.File.File.__init__( self, filepath = "", postfield = "", boundary_size = 30 )`

Constructor.

Parameters

<i>path</i>	str -The filepath
<i>postField</i>	str - The post field name.
<i>boundary_size</i>	int - Size of random boundary string for the filename to add on the post field.

Definition at line 35 of file File.py.

### 6.27.3 Member Function Documentation

6.27.3.1 `def RappCloud.Objects.File.File.__eq__( self, other )`

Equality method.

Definition at line 57 of file File.py.

6.27.3.2 `def RappCloud.Objects.File.File.make_tuple( self )`

Definition at line 103 of file File.py.

6.27.3.3 `def RappCloud.Objects.File.File.path( self )`

file path getter

Returns

string - The file path.

Definition at line 63 of file File.py.

6.27.3.4 `def RappCloud.Objects.File.File.path( self, filepath )`

file path setter

**Parameters**

<i>path</i>	(String) - The file path.
-------------	---------------------------

Definition at line 72 of file File.py.

#### 6.27.3.5 `def RappCloud.Objects.File.File.postfield ( self )`

Post field name getter.

**Returns**

string - The post field name.

Definition at line 82 of file File.py.

#### 6.27.3.6 `def RappCloud.Objects.File.File.postfield ( self, fieldname )`

Post field name setter.

**Parameters**

<i>fieldname</i>	(String) - The post field name.
------------------	---------------------------------

Definition at line 91 of file File.py.

#### 6.27.3.7 `def RappCloud.Objects.File.File.serialize ( self )`

Definition at line 99 of file File.py.

### 6.27.4 Member Data Documentation

#### 6.27.4.1 `RappCloud.Objects.File.File.__boundarySize` [private]

Definition at line 44 of file File.py.

#### 6.27.4.2 `RappCloud.Objects.File.File.__path` [private]

Definition at line 46 of file File.py.

#### 6.27.4.3 `RappCloud.Objects.File.File.__postfield` [private]

Definition at line 51 of file File.py.

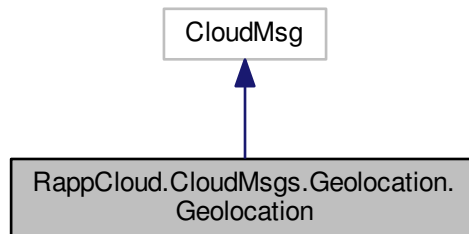
The documentation for this class was generated from the following file:

- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/Objects/File.py](/home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/File.py)

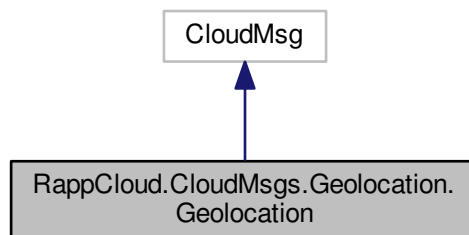


## 6.28 RappCloud.CloudMsgs.Geolocation.Geolocation Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Geolocation.Geolocation:



Collaboration diagram for RappCloud.CloudMsgs.Geolocation.Geolocation:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.28.1 Detailed Description

Geolocation Cloud Message object

Definition at line 11 of file Geolocation.py.

### 6.28.2 Constructor & Destructor Documentation

6.28.2.1 `def RappCloud.CloudMsgs.Geolocation.Geolocation.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.ipaddr</a></li> <li>• <a href="#">Request.engine</a></li> </ul>
------------------------------	---

Definition at line 88 of file Geolocation.py.

### 6.28.3 Member Data Documentation

6.28.3.1 `RappCloud.CloudMsgs.Geolocation.Geolocation.req`

Definition at line 98 of file Geolocation.py.

6.28.3.2 `RappCloud.CloudMsgs.Geolocation.Geolocation.resp`

Definition at line 100 of file Geolocation.py.

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

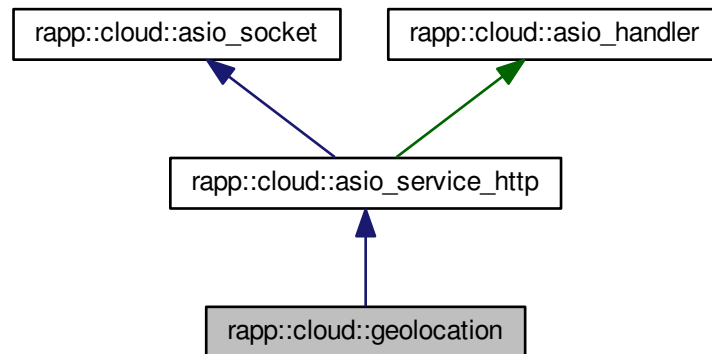
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py](#)

## 6.29 rapp::cloud::geolocation Class Reference

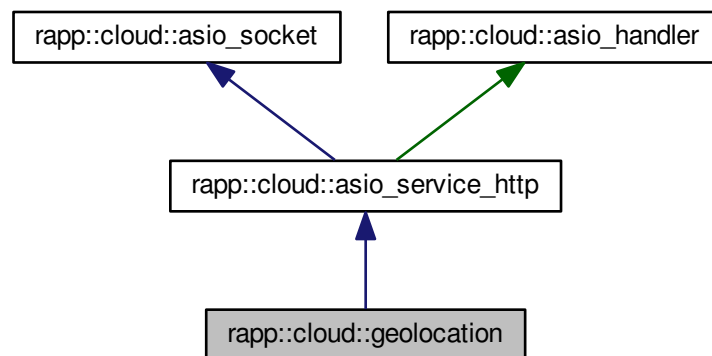
geolocation service

```
#include <geolocation.hpp>
```

Inheritance diagram for rapp::cloud::geolocation:



Collaboration diagram for rapp::cloud::geolocation:



## Public Member Functions

- [geolocation](#) (const std::string ipaddr, const std::string engine, const std::string token, std::function< void(std::string)> callback)

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::string)> [delegate\\_](#)

## Additional Inherited Members

### 6.29.1 Detailed Description

geolocation service

Version

0.6.0

Date

May 2016

Definition at line 12 of file geolocation.hpp.

### 6.29.2 Constructor & Destructor Documentation

**6.29.2.1** `rapp::cloud::geolocation::geolocation ( const std::string ipaddr, const std::string engine, const std::string token, std::function< void(std::string)> callback )`

Parameters

<i>ipaddr</i>	the machine's ip
<i>engine</i>	the API (default ip-api)
<i>token</i>	the rapp auth token
<i>callback</i>	receives a JSON reply

Definition at line 21 of file geolocation.hpp.

### 6.29.3 Member Function Documentation

**6.29.3.1** `void rapp::cloud::geolocation::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 43 of file geolocation.hpp.

### 6.29.4 Member Data Documentation

**6.29.4.1** `std::function<void(std::string)> rapp::cloud::geolocation::delegate_` `[private]`

Definition at line 49 of file geolocation.hpp.

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

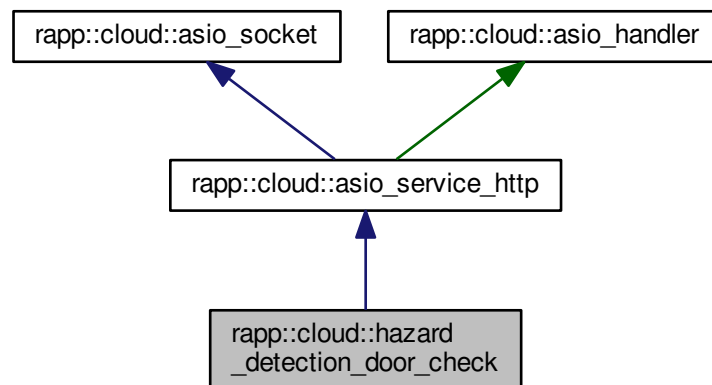
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/geolocation/geolocation.hpp](#)

## 6.30 rapp::cloud::hazard\_detection\_door\_check Class Reference

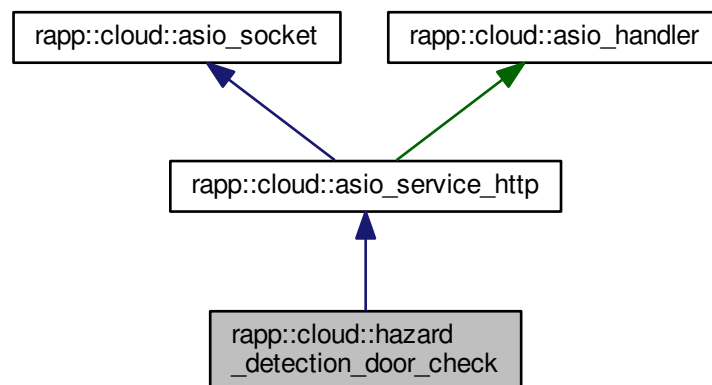
detect open doors

```
#include <hazard_detection.hpp>
```

Inheritance diagram for rapp::cloud::hazard\_detection\_door\_check:



Collaboration diagram for rapp::cloud::hazard\_detection\_door\_check:



## Public Member Functions

- `hazard_detection_door_check` (const std::shared\_ptr< rapp::object::picture > image, std::function< void(double door\_angle)> callback, std::string token)  
*Constructor.*

## Private Member Functions

- void `handle_reply` (std::string json)  
*handle the rapp-platform JSON reply*

## Private Attributes

- `std::function< void(double)> delegate__`  
The callback called upon completion of receiving the detected faces.

## Additional Inherited Members

### 6.30.1 Detailed Description

detect open doors

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `hazard_detection.hpp`.

### 6.30.2 Constructor & Destructor Documentation

6.30.2.1 `rapp::cloud::hazard_detection_door_check::hazard_detection_door_check ( const std::shared_ptr< rapp::object::picture > image, std::function< void(double door_angle)> callback, std::string token )`

Constructor.

Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a vector of detected qr(s)
<i>image_format</i>	must be defined, e.g.: jpeg, png, gif, etc.

Definition at line 22 of file `hazard_detection.hpp`.

### 6.30.3 Member Function Documentation

6.30.3.1 `void rapp::cloud::hazard_detection_door_check::handle_reply ( std::string json )` [private]

handle the rapp-platform JSON reply

Definition at line 56 of file `hazard_detection.hpp`.

### 6.30.4 Member Data Documentation

6.30.4.1 `std::function<void(double)> rapp::cloud::hazard_detection_door_check::delegate__` [private]

The callback called upon completion of receiving the detected faces.

Definition at line 84 of file `hazard_detection.hpp`.

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

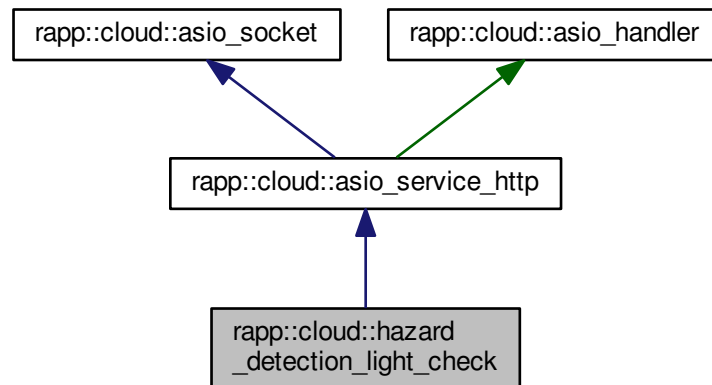
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp`

## 6.31 rapp::cloud::hazard\_detection\_light\_check Class Reference

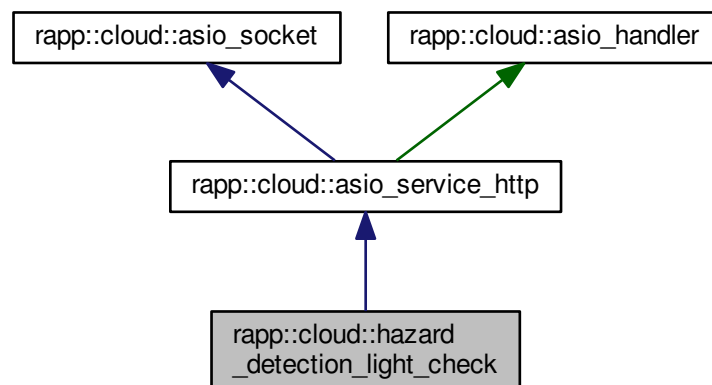
detect light levels

```
#include <hazard_detection.hpp>
```

Inheritance diagram for rapp::cloud::hazard\_detection\_light\_check:



Collaboration diagram for rapp::cloud::hazard\_detection\_light\_check:



### Public Member Functions

- [hazard\\_detection\\_light\\_check](#) (const std::shared\_ptr< [rapp::object::picture](#) > image, std::function< void(double light\_level)> callback, std::string token)

*Constructor.*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle the rapp-platform JSON reply*

## Private Attributes

- std::function< void(double)> [delegate\\_\\_](#)  
*The callback called upon completion of receiving the detected faces.*

## Additional Inherited Members

### 6.31.1 Detailed Description

detect light levels

#### Version

0.6.0

#### Date

April 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 94 of file hazard\_detection.hpp.

### 6.31.2 Constructor & Destructor Documentation

6.31.2.1 `rapp::cloud::hazard_detection_light_check::hazard_detection_light_check ( const std::shared_ptr< rapp::object::picture > image, std::function< void(double light_level)> callback, std::string token )`

Constructor.

#### Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a vector of detected qr(s)
<i>image_format</i>	must be defined, e.g.: jpeg, png, gif, etc.

Definition at line 103 of file hazard\_detection.hpp.

### 6.31.3 Member Function Documentation

6.31.3.1 `void rapp::cloud::hazard_detection_light_check::handle_reply ( std::string json )` [private]

handle the rapp-platform JSON reply

Definition at line 138 of file hazard\_detection.hpp.



### 6.31.4 Member Data Documentation

#### 6.31.4.1 `std::function<void(double)> rapp::cloud::hazard_detection_light_check::delegate__` [private]

The callback called upon completion of receiving the detected faces.

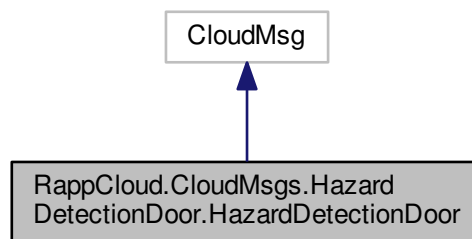
Definition at line 166 of file `hazard_detection.hpp`.

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

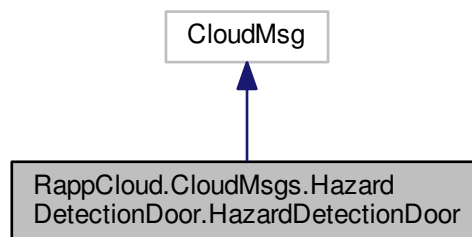
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp`

## 6.32 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor:



### Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.32.1 Detailed Description

Hazard Detection Light Check Cloud Message object

Definition at line 11 of file HazardDetectionDoor.py.

### 6.32.2 Constructor & Destructor Documentation

6.32.2.1 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	<b>-</b> Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <a href="#">Request.imageFilepath</a></li></ul>
------------------------------	---

Definition at line 63 of file HazardDetectionDoor.py.

### 6.32.3 Member Data Documentation

6.32.3.1 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.req`

Definition at line 72 of file HazardDetectionDoor.py.

6.32.3.2 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.resp`

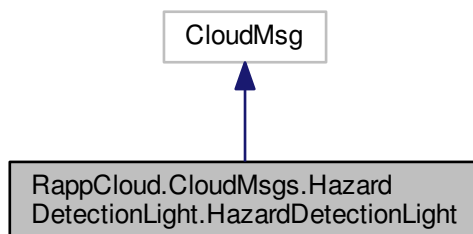
Definition at line 74 of file HazardDetectionDoor.py.

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

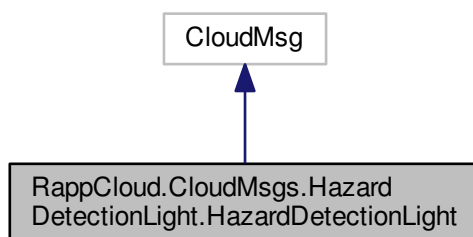
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py`

## 6.33 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.33.1 Detailed Description

Hazard Detection Light Check Cloud Message object

Definition at line 11 of file HazardDetectionLight.py.

### 6.33.2 Constructor & Destructor Documentation

#### 6.33.2.1 def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.\_\_init\_\_( self, kwargs )

Constructor.

Parameters

<b>**kwargs</b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.imageFilepath</a></li> </ul>
-----------------	--

Definition at line 63 of file HazardDetectionLight.py.

### 6.33.3 Member Data Documentation

#### 6.33.3.1 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.req

Definition at line 72 of file HazardDetectionLight.py.

#### 6.33.3.2 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.resp

Definition at line 74 of file HazardDetectionLight.py.

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

- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[HazardDetectionLight.py](#)

## 6.34 rapp::object::human Class Reference

describes human coordinates

```
#include <human.hpp>
```

### Public Member Functions

- [human](#) (float top\_left\_x, float top\_left\_y, float bottom\_right\_x, float bottom\_right\_y)  
*Construct using coordinates (a rectangle)*
- [human](#) ()=default  
*Allow empty constructor.*
- [human](#) (const [human](#) &)=default  
*Copy constructor.*
- bool [operator==](#) (const [human](#) &rhs) const  
*Equality operator.*

## Private Attributes

- float [bottom\\_right\\_x\\_\\_](#)
- float [bottom\\_right\\_y\\_\\_](#)
- float [top\\_left\\_x\\_\\_](#)
- float [top\\_left\\_y\\_\\_](#)

### 6.34.1 Detailed Description

describes human coordinates

#### Version

0.6.0

#### Date

April-2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file human.hpp.

### 6.34.2 Constructor & Destructor Documentation

6.34.2.1 `rapp::object::human::human ( float top_left_x, float top_left_y, float bottom_right_x, float bottom_right_y )`

Construct using coordinates (a rectangle)

Definition at line 17 of file human.hpp.

6.34.2.2 `rapp::object::human::human ( )` [default]

Allow empty constructor.

6.34.2.3 `rapp::object::human::human ( const human & )` [default]

Copy constructor.

### 6.34.3 Member Function Documentation

6.34.3.1 `bool rapp::object::human::operator== ( const human & rhs ) const`

Equality operator.

Definition at line 36 of file human.hpp.

### 6.34.4 Member Data Documentation

6.34.4.1 `float rapp::object::human::bottom_right_x__` [private]

Definition at line 47 of file human.hpp.

#### 6.34.4.2 `float rapp::object::human::bottom_right_y__` [private]

Definition at line 48 of file human.hpp.

#### 6.34.4.3 `float rapp::object::human::top_left_x__` [private]

Definition at line 45 of file human.hpp.

#### 6.34.4.4 `float rapp::object::human::top_left_y__` [private]

Definition at line 46 of file human.hpp.

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

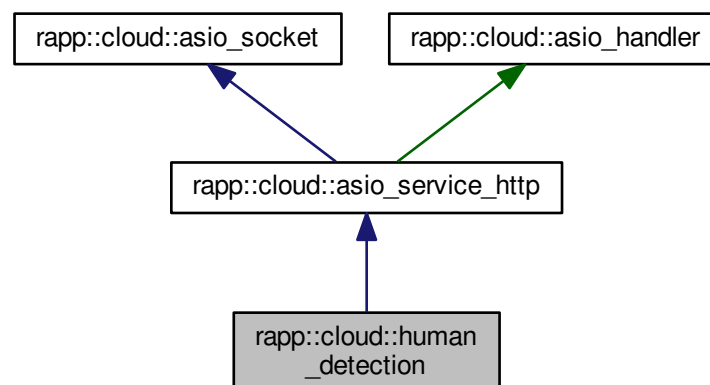
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/objects/human/human.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/human.hpp)

## 6.35 `rapp::cloud::human_detection` Class Reference

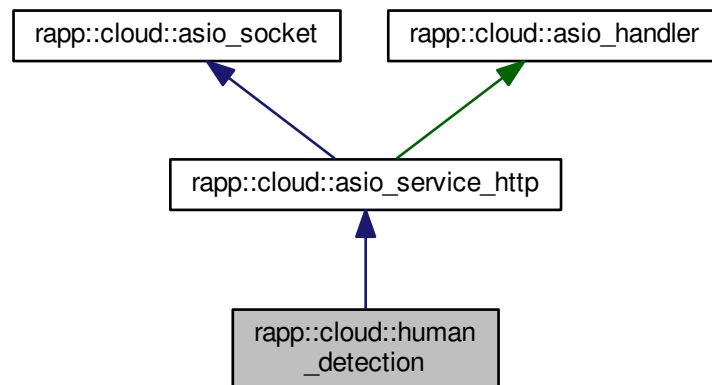
detect humans in an image

```
#include <human_detection.hpp>
```

Inheritance diagram for `rapp::cloud::human_detection`:



Collaboration diagram for rapp::cloud::human\_detection:



## Public Member Functions

- [human\\_detection](#) (const std::shared\_ptr< [rapp::object::picture](#) > image, std::function< void(std::vector< [rapp::object::human](#) >)> callback, std::string token)  
*Constructor.*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle the rapp-platform JSON reply*

## Private Attributes

- std::function< void(std::vector< [rapp::object::human](#) >)> [delegate\\_\\_](#)  
*The callback called upon completion of receiving the detected faces.*

## Additional Inherited Members

### 6.35.1 Detailed Description

detect humans in an image

#### Version

0.6.0

#### Date

April 2016

## Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file human\_detection.hpp.

## 6.35.2 Constructor & Destructor Documentation

6.35.2.1 `rapp::cloud::human_detection::human_detection ( const std::shared_ptr< rapp::object::picture > image, std::function< void(std::vector< rapp::object::human >)> callback, std::string token )`

Constructor.

## Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a vector of detected qr(s)
<i>image_format</i>	must be defined, e.g.: jpeg, png, gif, etc.

Definition at line 22 of file human\_detection.hpp.

## 6.35.3 Member Function Documentation

6.35.3.1 `void rapp::cloud::human_detection::handle_reply ( std::string json ) [private]`

handle the rapp-platform JSON reply

Definition at line 56 of file human\_detection.hpp.

## 6.35.4 Member Data Documentation

6.35.4.1 `std::function<void(std::vector<rapp::object::human>)> rapp::cloud::human_detection::delegate__ [private]`

The callback called upon completion of receiving the detected faces.

Definition at line 112 of file human\_detection.hpp.

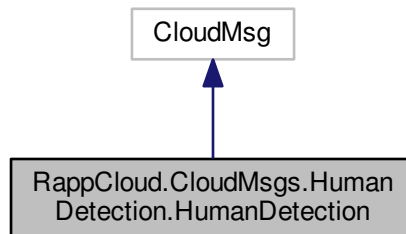
The documentation for this class was generated from the following file:

- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/vision/human\\_detection/human\\_detection.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/human_detection.hpp)

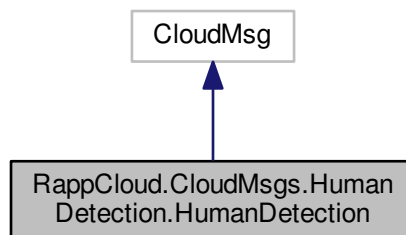


## 6.36 RappCloud.CloudMsgs.HumanDetection.HumanDetection Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection:



Collaboration diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.36.1 Detailed Description

Human Detection Cloud Message object

Definition at line 11 of file HumanDetection.py.

### 6.36.2 Constructor & Destructor Documentation

6.36.2.1 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <a href="#">Request.imageFilepath</a></li></ul>
------------------------------	--

Definition at line 58 of file HumanDetection.py.

### 6.36.3 Member Data Documentation

6.36.3.1 `RappCloud.CloudMsgs.HumanDetection.HumanDetection.req`

Definition at line 67 of file HumanDetection.py.

6.36.3.2 `RappCloud.CloudMsgs.HumanDetection.HumanDetection.resp`

Definition at line 69 of file HumanDetection.py.

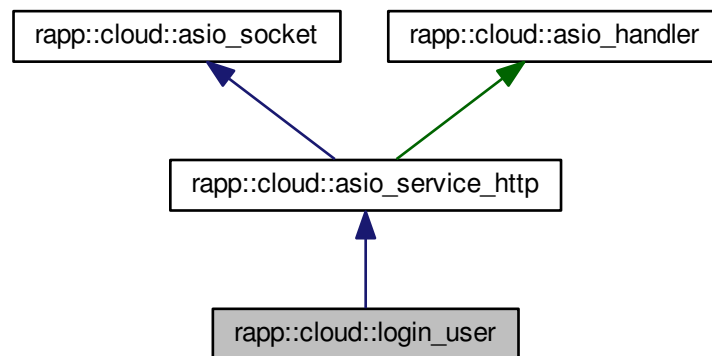
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py`

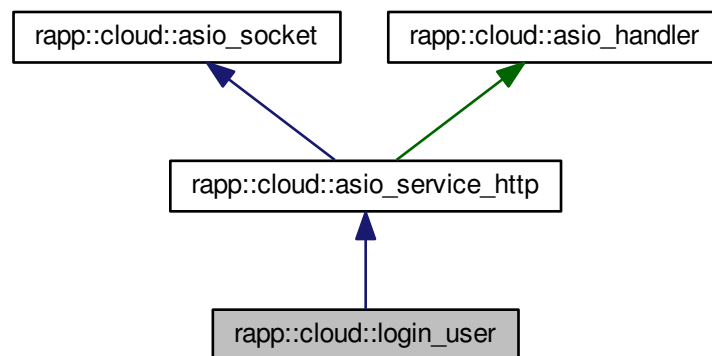
## 6.37 rapp::cloud::login\_user Class Reference

```
#include <user.hpp>
```

Inheritance diagram for rapp::cloud::login\_user:



Collaboration diagram for rapp::cloud::login\_user:



## Public Member Functions

- [available\\_services](#) (const std::string token, std::function< void(std::vector< std::string >)> callback)

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::vector< std::string > services)> [delegate\\_](#)

## Additional Inherited Members

### 6.37.1 Detailed Description

#### Version

0.6.0

#### Date

May 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file user.hpp.

### 6.37.2 Member Function Documentation

**6.37.2.1** `rapp::cloud::login_user::available_services ( const std::string token, std::function< void(std::vector< std::string >)> callback )`

#### Parameters

<i>callback</i>	will receive a vector of services strings
-----------------	---

Definition at line 19 of file user.hpp.

**6.37.2.2** `void rapp::cloud::login_user::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 32 of file user.hpp.

### 6.37.3 Member Data Documentation

**6.37.3.1** `std::function<void(std::vector<std::string> services)> rapp::cloud::login_user::delegate_` `[private]`

Definition at line 57 of file user.hpp.

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

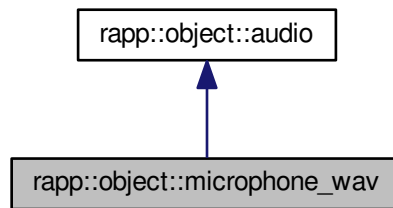
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/user.hpp`

## 6.38 rapp::object::microphone\_wav Class Reference

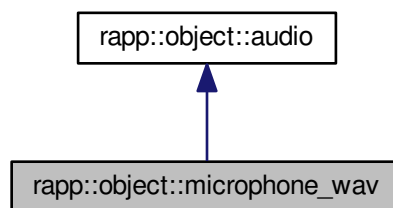
WAV Single channel 16Khz > Headset audio source.

```
#include <audio.hpp>
```

Inheritance diagram for rapp::object::microphone\_wav:



Collaboration diagram for rapp::object::microphone\_wav:



## Public Member Functions

- [microphone\\_wav](#) (const std::string filepath)
- [microphone\\_wav](#) (std::ifstream &bytestream)
- [microphone\\_wav](#) (std::vector< [rapp::types::byte](#) > bytearray)
- std::string [audio\\_source](#) () const
- std::string [extension](#) () const

### 6.38.1 Detailed Description

WAV Single channel 16Khz > Headset audio source.

Definition at line 154 of file audio.hpp.

### 6.38.2 Constructor & Destructor Documentation

#### 6.38.2.1 rapp::object::microphone\_wav::microphone\_wav ( const std::string filepath )

Definition at line 158 of file audio.hpp.

### 6.38.2.2 `rapp::object::microphone_wav::microphone_wav ( std::ifstream & bytestream )`

Definition at line 161 of file `audio.hpp`.

### 6.38.2.3 `rapp::object::microphone_wav::microphone_wav ( std::vector< rapp::types::byte > bytearray )`

Definition at line 164 of file `audio.hpp`.

## 6.38.3 Member Function Documentation

### 6.38.3.1 `std::string rapp::object::microphone_wav::audio_source ( ) const` [virtual]

Reimplemented from [rapp::object::audio](#).

Definition at line 168 of file `audio.hpp`.

### 6.38.3.2 `std::string rapp::object::microphone_wav::extension ( ) const` [virtual]

Reimplemented from [rapp::object::audio](#).

Definition at line 171 of file `audio.hpp`.

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

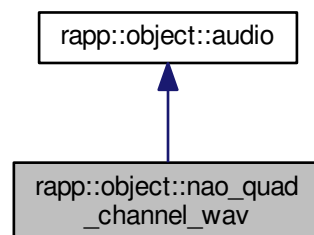
- `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp`

## 6.39 `rapp::object::nao_quad_channel_wav` Class Reference

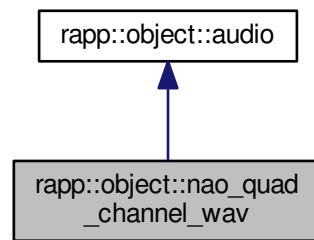
WAV Class specialisation for quad channel.

```
#include <audio.hpp>
```

Inheritance diagram for `rapp::object::nao_quad_channel_wav`:



Collaboration diagram for rapp::object::nao\_quad\_channel\_wav:



## Public Member Functions

- [nao\\_quad\\_channel\\_wav](#) (const std::string filepath)
- [nao\\_quad\\_channel\\_wav](#) (std::ifstream &bytestream)
- std::string [audio\\_source](#) () const
- std::string [extension](#) () const

### 6.39.1 Detailed Description

WAV Class specialisation for quad channel.

Definition at line 137 of file audio.hpp.

### 6.39.2 Constructor & Destructor Documentation

6.39.2.1 `rapp::object::nao_quad_channel_wav::nao_quad_channel_wav ( const std::string filepath )`

Definition at line 141 of file audio.hpp.

6.39.2.2 `rapp::object::nao_quad_channel_wav::nao_quad_channel_wav ( std::ifstream & bytestream )`

Definition at line 144 of file audio.hpp.

### 6.39.3 Member Function Documentation

6.39.3.1 `std::string rapp::object::nao_quad_channel_wav::audio_source ( ) const` `[virtual]`

Reimplemented from [rapp::object::audio](#).

Definition at line 147 of file audio.hpp.

6.39.3.2 `std::string rapp::object::nao_quad_channel_wav::extension ( ) const` `[virtual]`

Reimplemented from [rapp::object::audio](#).

Definition at line 150 of file audio.hpp.

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

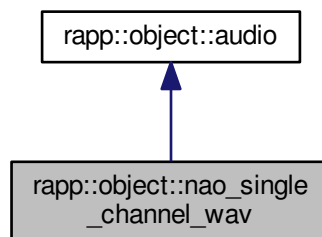
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/objects/audio/audio.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp)

## 6.40 rapp::object::nao\_single\_channel\_wav Class Reference

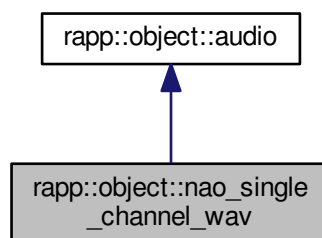
WAV Class specialisation for a single channel.

```
#include <audio.hpp>
```

Inheritance diagram for rapp::object::nao\_single\_channel\_wav:



Collaboration diagram for rapp::object::nao\_single\_channel\_wav:



### Public Member Functions

- [nao\\_single\\_channel\\_wav](#) (const std::string filepath)
- [nao\\_single\\_channel\\_wav](#) (std::ifstream &bytestream)
- std::string [audio\\_source](#) () const
- std::string [extension](#) () const

### 6.40.1 Detailed Description

WAV Class specialisation for a single channel.



Definition at line 120 of file audio.hpp.

## 6.40.2 Constructor & Destructor Documentation

### 6.40.2.1 `rapp::object::nao_single_channel_wav::nao_single_channel_wav ( const std::string filepath )`

Definition at line 124 of file audio.hpp.

### 6.40.2.2 `rapp::object::nao_single_channel_wav::nao_single_channel_wav ( std::ifstream & bytestream )`

Definition at line 127 of file audio.hpp.

## 6.40.3 Member Function Documentation

### 6.40.3.1 `std::string rapp::object::nao_single_channel_wav::audio_source ( ) const` `[virtual]`

Reimplemented from [rapp::object::audio](#).

Definition at line 130 of file audio.hpp.

### 6.40.3.2 `std::string rapp::object::nao_single_channel_wav::extension ( ) const` `[virtual]`

Reimplemented from [rapp::object::audio](#).

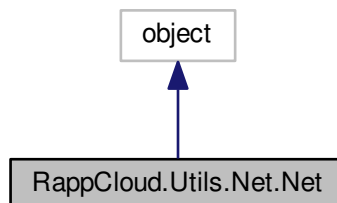
Definition at line 133 of file audio.hpp.

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

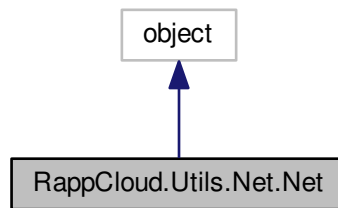
- `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp`

## 6.41 RappCloud.Utills.Net.Net Class Reference

Inheritance diagram for RappCloud.Utills.Net.Net:



Collaboration diagram for RappCloud.Utills.Net.Net:



## Static Public Member Functions

- `def ipaddr_connected`  
*Hacky method to get the actual public ip.*

### 6.41.1 Detailed Description

Provide Network related static methods

Definition at line 31 of file Net.py.

### 6.41.2 Member Function Documentation

6.41.2.1 `def RappCloud.Utills.Net.Net.ipaddr_connected ( ) [static]`

Hacky method to get the actual public ip.

Prepare a dummy socket to google.com and see what the socket name is.

#### Returns

string - The ipv4 address of the machine.

Definition at line 37 of file Net.py.

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

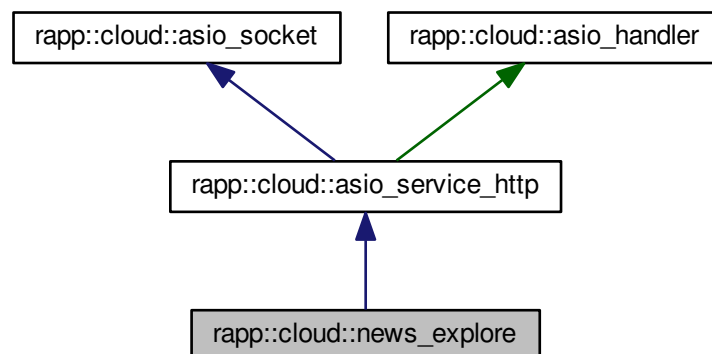
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/Utills/Net.py`

## 6.42 rapp::cloud::news\_explore Class Reference

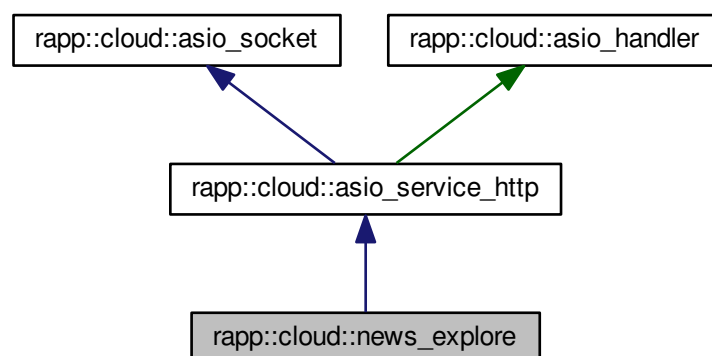
get news

```
#include <news.hpp>
```

Inheritance diagram for rapp::cloud::news\_explore:



Collaboration diagram for rapp::cloud::news\_explore:



## Public Member Functions

- [news\\_explore](#) (const std::string news\_engine, const std::vector< std::string > keywords, const std::vector< std::string > exclude\_titles, const std::string region, const std::string topic, const unsigned int num\_news, const std::string token, std::function< void(std::string)> callback)

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- `std::function< void(std::string)>` [delegate\\_](#)

## Additional Inherited Members

### 6.42.1 Detailed Description

get news

Version

0.6.0

Date

May 2016

Definition at line 12 of file news.hpp.

### 6.42.2 Constructor & Destructor Documentation

6.42.2.1 `rapp::cloud::news_explore::news_explore ( const std::string news_engine, const std::vector< std::string > keywords, const std::vector< std::string > exclude_titles, const std::string region, const std::string topic, const unsigned int num_news, const std::string token, std::function< void(std::string)> callback )`

Parameters

<i>news_engine</i>	search news engine
<i>keywords</i>	list desired keywords
<i>exclude_titles</i>	list of excluded titles
<i>region</i>	language/region
<i>topic</i>	main news topic
<i>num_news</i>	number of news stories limit
<i>token</i>	rapp auth token
<i>callback</i>	receives a JSON reply

Definition at line 25 of file news.hpp.

### 6.42.3 Member Function Documentation

6.42.3.1 `void rapp::cloud::news_explore::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 65 of file news.hpp.

### 6.42.4 Member Data Documentation

6.42.4.1 `std::function<void(std::string)>` `rapp::cloud::news_explore::delegate_` `[private]`

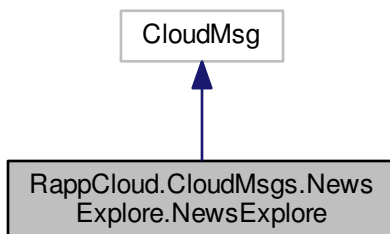
Definition at line 71 of file news.hpp.

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

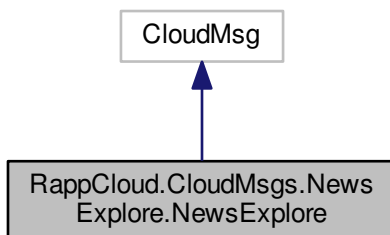
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/news.hpp`

## 6.43 RappCloud.CloudMsgs.NewsExplore.NewsExplore Class Reference

Inheritance diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore:



Collaboration diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.43.1 Detailed Description

NewsExplore Cloud Message object

Definition at line 11 of file NewsExplore.py.

### 6.43.2 Constructor & Destructor Documentation

#### 6.43.2.1 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.news_engine</a></li> <li>• <a href="#">Request.keywords</a></li> <li>• <a href="#">Request.exclude_titles</a></li> <li>• <a href="#">Request.region</a></li> <li>• <a href="#">Request.topic</a></li> <li>• <a href="#">Request.num_news</a></li> </ul>
------------------------------	---

Definition at line 85 of file NewsExplore.py.

### 6.43.3 Member Data Documentation

#### 6.43.3.1 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.req`

Definition at line 99 of file NewsExplore.py.

#### 6.43.3.2 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.resp`

Definition at line 101 of file NewsExplore.py.

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

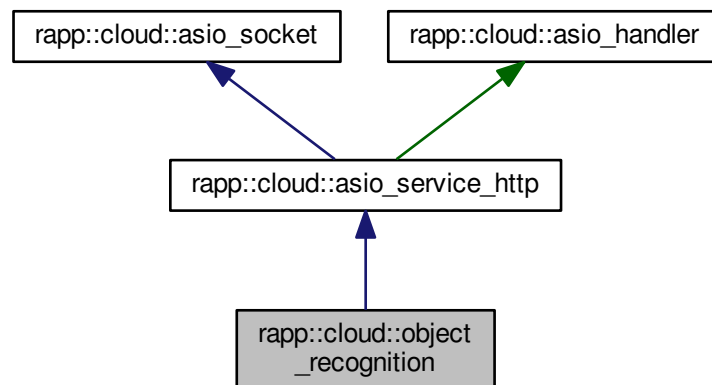
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py](#)

## 6.44 `rapp::cloud::object_recognition` Class Reference

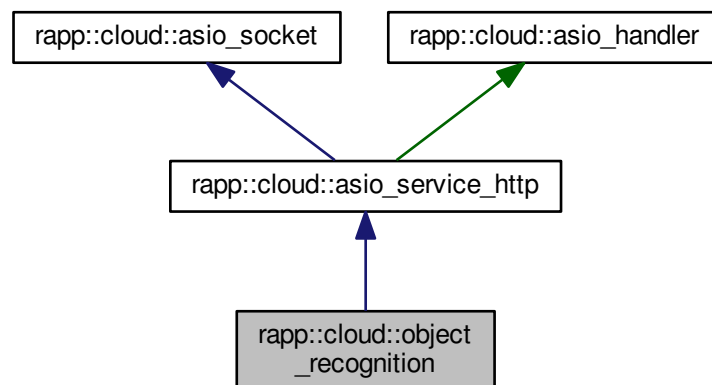
recognize object from an image

```
#include <object_recognition.hpp>
```

Inheritance diagram for rapp::cloud::object\_recognition:



Collaboration diagram for rapp::cloud::object\_recognition:



## Public Member Functions

- `object_recognition` (const std::shared\_ptr< rapp::object::picture > image, std::function< void(std::string)> callback, std::string token)

*Constructor.*

## Private Member Functions

- void `handle_reply` (std::string json)  
*handle the rapp-platform JSON reply*

## Private Attributes

- `std::function< void(std::string)> delegate\_\_`  
*The callback called upon completion of receiving the detected faces.*

## Additional Inherited Members

### 6.44.1 Detailed Description

recognize object from an image

#### Version

0.6.1

#### Date

April 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `object_recognition.hpp`.

### 6.44.2 Constructor & Destructor Documentation

- 6.44.2.1 `rapp::cloud::object_recognition::object_recognition ( const std::shared_ptr< rapp::object::picture > image, std::function< void(std::string)> callback, std::string token )`

Constructor.

#### Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a string

Definition at line 21 of file `object_recognition.hpp`.

### 6.44.3 Member Function Documentation

- 6.44.3.1 `void rapp::cloud::object_recognition::handle_reply ( std::string json )` `[private]`

handle the rapp-platform JSON reply

Definition at line 55 of file `object_recognition.hpp`.

### 6.44.4 Member Data Documentation

- 6.44.4.1 `std::function<void(std::string)> rapp::cloud::object_recognition::delegate__` `[private]`

The callback called upon completion of receiving the detected faces.

Definition at line 82 of file `object_recognition.hpp`.

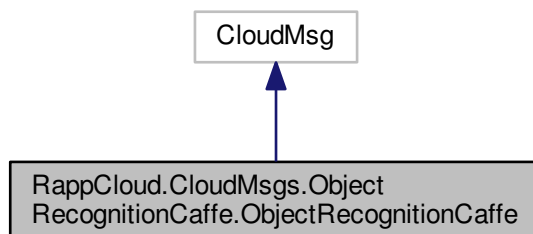
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/object\_recognition.hpp`

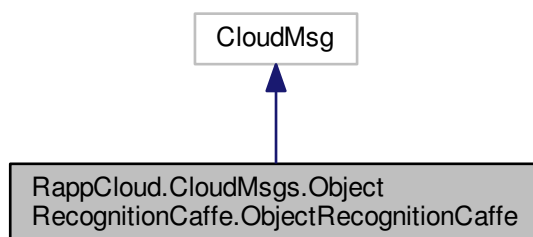


## 6.45 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe Class Reference

Inheritance diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe:



Collaboration diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.45.1 Detailed Description

Object Recognition Cloud Message object

Definition at line 11 of file ObjectRecognitionCaffe.py.

### 6.45.2 Constructor & Destructor Documentation

6.45.2.1 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.imageFilepath</a></li> </ul>
------------------------------	--

Definition at line 63 of file ObjectRecognitionCaffe.py.

### 6.45.3 Member Data Documentation

6.45.3.1 `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.req`

Definition at line 72 of file ObjectRecognitionCaffe.py.

6.45.3.2 `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.resp`

Definition at line 74 of file ObjectRecognitionCaffe.py.

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

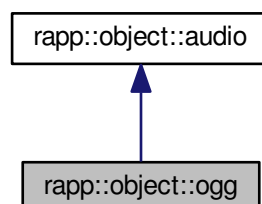
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py`

## 6.46 rapp::object::ogg Class Reference

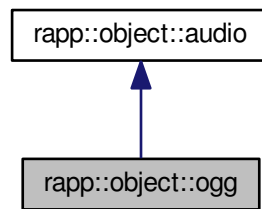
OGG Class specialisation.

```
#include <audio.hpp>
```

Inheritance diagram for rapp::object::ogg:



Collaboration diagram for rapp::object::ogg:



## Public Member Functions

- [ogg](#) (const std::string filepath)
- [ogg](#) (std::ifstream &bytestream)
- std::string [audio\\_source](#) () const
- std::string [extension](#) () const

### 6.46.1 Detailed Description

OGG Class specialisation.

Definition at line 103 of file audio.hpp.

### 6.46.2 Constructor & Destructor Documentation

#### 6.46.2.1 rapp::object::ogg::ogg ( const std::string *filepath* )

Definition at line 107 of file audio.hpp.

#### 6.46.2.2 rapp::object::ogg::ogg ( std::ifstream & *bytestream* )

Definition at line 110 of file audio.hpp.

### 6.46.3 Member Function Documentation

#### 6.46.3.1 std::string rapp::object::ogg::audio\_source ( ) const [virtual]

Reimplemented from [rapp::object::audio](#).

Definition at line 113 of file audio.hpp.

#### 6.46.3.2 std::string rapp::object::ogg::extension ( ) const [virtual]

Reimplemented from [rapp::object::audio](#).

Definition at line 116 of file audio.hpp.

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

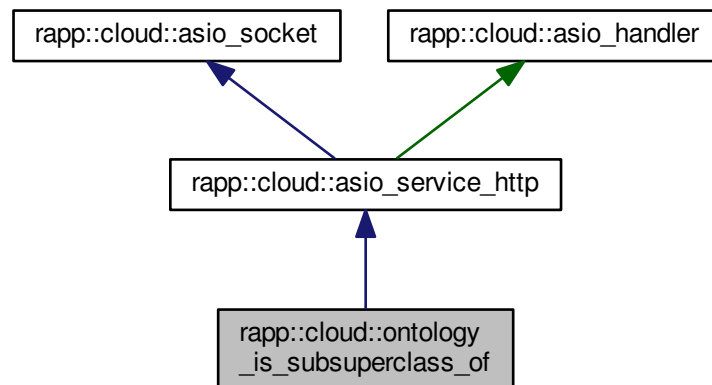
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/objects/audio/audio.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp)

## 6.47 rapp::cloud::ontology\_is\_subsuperclass\_of Class Reference

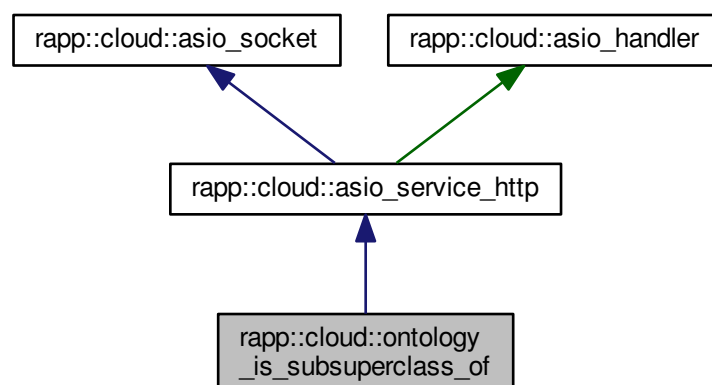
query if sub class is a super class of param

```
#include <ontology.hpp>
```

Inheritance diagram for rapp::cloud::ontology\_is\_subsuperclass\_of:



Collaboration diagram for rapp::cloud::ontology\_is\_subsuperclass\_of:



## Public Member Functions

- [ontology\\_is\\_subsuperclass\\_of](#) (const std::string parent\_class, const std::string child\_class, bool recursive, std::function< void(bool result)> callback, const std::string token)  
*query if a class is the superclass of a subclass*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle and parse JSON reply*

## Private Attributes

- std::function< void(bool result)> [delegate\\_\\_](#)  
*The callback called upon completion of receiving the detected faces.*

## Additional Inherited Members

### 6.47.1 Detailed Description

query if sub class is a super class of param

#### Version

0.6.0

#### Date

April 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 144 of file ontology.hpp.

### 6.47.2 Constructor & Destructor Documentation

6.47.2.1 rapp::cloud::ontology\_is\_subsuperclass\_of::ontology\_is\_subsuperclass\_of ( const std::string *parent\_class*, const std::string *child\_class*, bool *recursive*, std::function< void(bool result)> *callback*, const std::string *token* )

query if a class is the superclass of a subclass

#### Parameters

<i>parent</i>	class queried
<i>child</i>	class queried
<i>recursive</i>	defines a recursive procedure
<i>callback</i>	is the functor that will receive the classes discovered

<i>token</i>	is the rapp authentication token
--------------	----------------------------------

Definition at line 155 of file ontology.hpp.

### 6.47.3 Member Function Documentation

6.47.3.1 `void rapp::cloud::ontology_is_subsuperclass_of::handle_reply ( std::string json )` [private]

handle and parse JSON reply

Definition at line 178 of file ontology.hpp.

### 6.47.4 Member Data Documentation

6.47.4.1 `std::function<void(bool result)> rapp::cloud::ontology_is_subsuperclass_of::delegate__` [private]

The callback called upon completion of receiving the detected faces.

Definition at line 206 of file ontology.hpp.

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

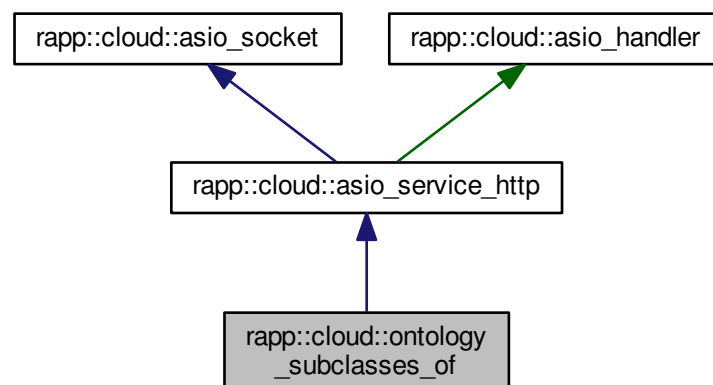
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp)

## 6.48 rapp::cloud::ontology\_subclasses\_of Class Reference

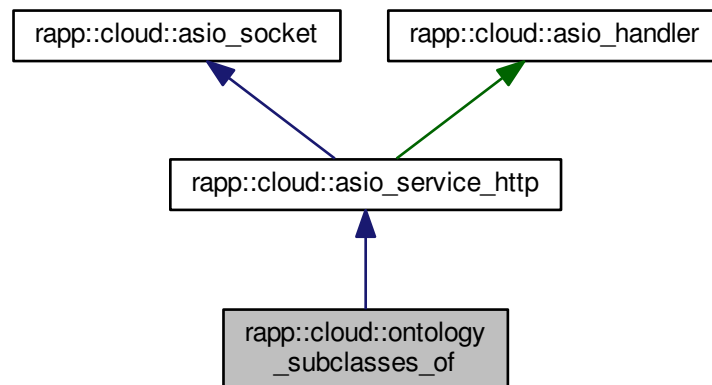
get ontology subclass of a query

```
#include <ontology.hpp>
```

Inheritance diagram for rapp::cloud::ontology\_subclasses\_of:



Collaboration diagram for rapp::cloud::ontology\_subclasses\_of:



## Public Member Functions

- [ontology\\_subclasses\\_of](#) (std::string ontology\_class, bool recursive, std::function< void(std::vector< std::string >)> callback, std::string token)  
*constructor for this handler*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle and parse JSON reply*

## Private Attributes

- std::function< void(std::vector< std::string > classes)> [delegate\\_\\_](#)  
*The callback called upon completion of receiving the detected faces.*

## Additional Inherited Members

### 6.48.1 Detailed Description

get ontology subclass of a query

#### Version

0.6.1

#### Date

May 2016

## Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file ontology.hpp.

## 6.48.2 Constructor & Destructor Documentation

6.48.2.1 `rapp::cloud::ontology_subclasses_of::ontology_subclasses_of ( std::string ontology_class, bool recursive, std::function< void(std::vector< std::string >)> callback, std::string token )`

constructor for this handler

## Parameters

<i>query</i>	is the entity for which we will try to acquire its Super-Ordinates
<i>callback</i>	is the functor that will receive the classes discovered
<i>token</i>	is the rapp authentication token

Definition at line 22 of file ontology.hpp.

## 6.48.3 Member Function Documentation

6.48.3.1 `void rapp::cloud::ontology_subclasses_of::handle_reply ( std::string json )` `[private]`

handle and parse JSON reply

Definition at line 43 of file ontology.hpp.

## 6.48.4 Member Data Documentation

6.48.4.1 `std::function<void(std::vector<std::string> classes)> rapp::cloud::ontology_subclasses_of::delegate__` `[private]`

The callback called upon completion of receiving the detected faces.

Definition at line 70 of file ontology.hpp.

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

- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp)

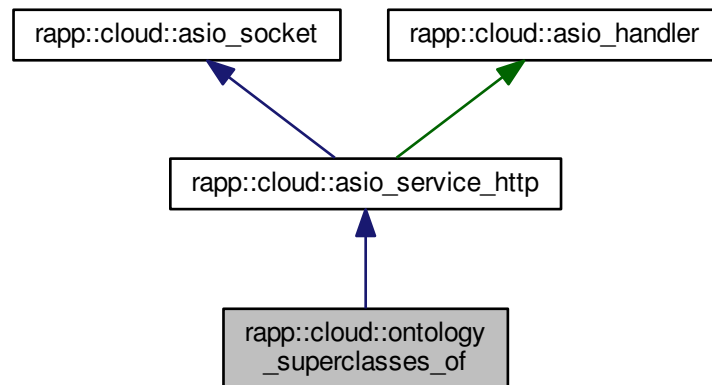
## 6.49 rapp::cloud::ontology\_superclasses\_of Class Reference

get ontology super-classes of query

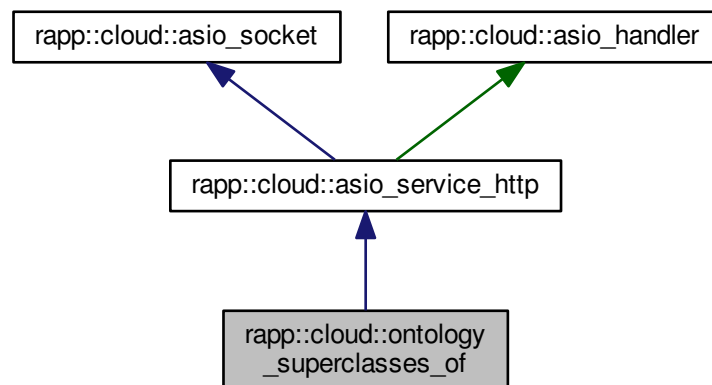
```
#include <ontology.hpp>
```



Inheritance diagram for rapp::cloud::ontology\_superclasses\_of:



Collaboration diagram for rapp::cloud::ontology\_superclasses\_of:



## Public Member Functions

- [ontology\\_superclasses\\_of](#) (const std::string ontology\_class, bool recursive, std::function< void(std::vector< std::string >)> callback, std::string token)

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle and parse JSON reply*

## Private Attributes

- `std::function< void(std::vector< std::string > classes)>` [delegate\\_\\_](#)

*The callback called upon completion of receiving the detected faces.*

## Additional Inherited Members

### 6.49.1 Detailed Description

get ontology super-classes of query

Version

0.6.1

Date

May 2016

Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 79 of file ontology.hpp.

### 6.49.2 Constructor & Destructor Documentation

6.49.2.1 `rapp::cloud::ontology_superclasses_of::ontology_superclasses_of ( const std::string ontology_class, bool recursive, std::function< void(std::vector< std::string >)> callback, std::string token )`

Parameters

<i>ontology_class</i>	is the entity for which we will try to acquire its Super-Ordinates
<i>callback</i>	is the functor that will receive the classes discovered
<i>token</i>	is user authentication token

Definition at line 87 of file ontology.hpp.

### 6.49.3 Member Function Documentation

6.49.3.1 `void rapp::cloud::ontology_superclasses_of::handle_reply ( std::string json )` `[private]`

handle and parse JSON reply

Definition at line 108 of file ontology.hpp.

### 6.49.4 Member Data Documentation

6.49.4.1 `std::function<void(std::vector<std::string> classes)>` `rapp::cloud::ontology_superclasses_of::delegate__`  
`[private]`

The callback called upon completion of receiving the detected faces.

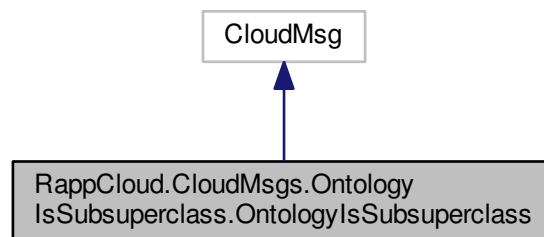
Definition at line 135 of file ontology.hpp.

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

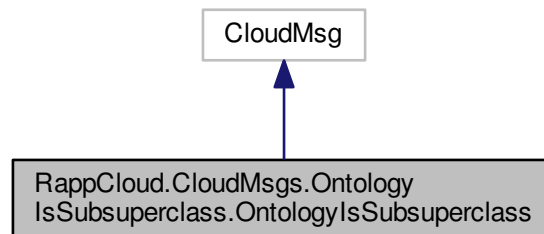
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp](#)

## 6.50 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass:



Collaboration diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)

- [resp](#)

### 6.50.1 Detailed Description

Ontology Is Sub-Superclass Of Cloud Message object

Definition at line 11 of file OntologyIsSubsuperclass.py.

### 6.50.2 Constructor & Destructor Documentation

6.50.2.1 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	<p>- Keyword arguments. Apply values to the request attributes.</p> <ul style="list-style-type: none"><li>• <a href="#">Request.parent_class</a></li><li>• <a href="#">Request.child_class</a></li><li>• <a href="#">Request.recursive</a></li></ul>
------------------------------	--

Definition at line 74 of file OntologyIsSubsuperclass.py.

### 6.50.3 Member Data Documentation

6.50.3.1 `RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.req`

Definition at line 85 of file OntologyIsSubsuperclass.py.

6.50.3.2 `RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.resp`

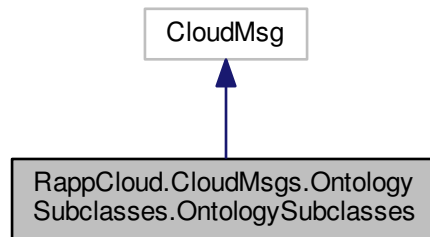
Definition at line 87 of file OntologyIsSubsuperclass.py.

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

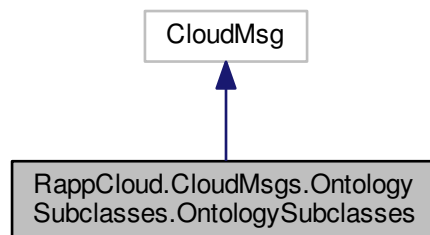
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py`

## 6.51 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses:



Collaboration diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.51.1 Detailed Description

Ontology Subclasses Of Cloud Message object

Definition at line 11 of file OntologySubclasses.py.

### 6.51.2 Constructor & Destructor Documentation

6.51.2.1 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• Request.query</li> </ul>
-----------------------	--

Definition at line 67 of file OntologySubclasses.py.

### 6.51.3 Member Data Documentation

6.51.3.1 `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.req`

Definition at line 76 of file OntologySubclasses.py.

6.51.3.2 `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.resp`

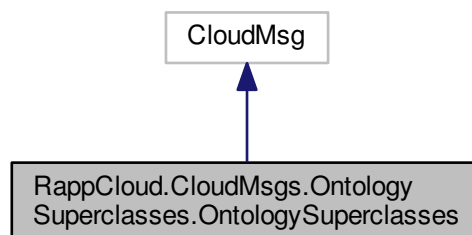
Definition at line 78 of file OntologySubclasses.py.

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

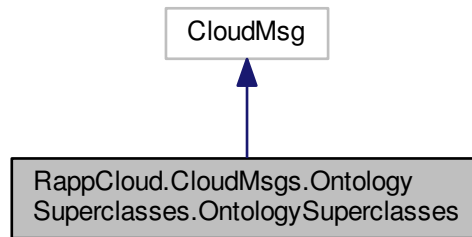
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py](#)

## 6.52 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses:



Collaboration diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.52.1 Detailed Description

Ontology Superclasses Of Cloud Message object

Definition at line 11 of file OntologySuperclasses.py.

### 6.52.2 Constructor & Destructor Documentation

6.52.2.1 def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.\_\_init\_\_( self, kwargs )

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• Request.query</li> </ul>
------------------------------	--

Definition at line 67 of file OntologySuperclasses.py.

### 6.52.3 Member Data Documentation

#### 6.52.3.1 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.req

Definition at line 76 of file OntologySuperclasses.py.

#### 6.52.3.2 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.resp

Definition at line 78 of file OntologySuperclasses.py.

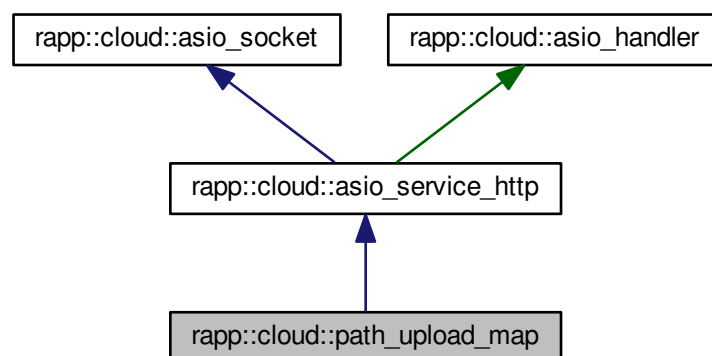
The documentation for this class was generated from the following file:

- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[OntologySuperclasses.py](#)

## 6.53 rapp::cloud::path\_upload\_map Class Reference

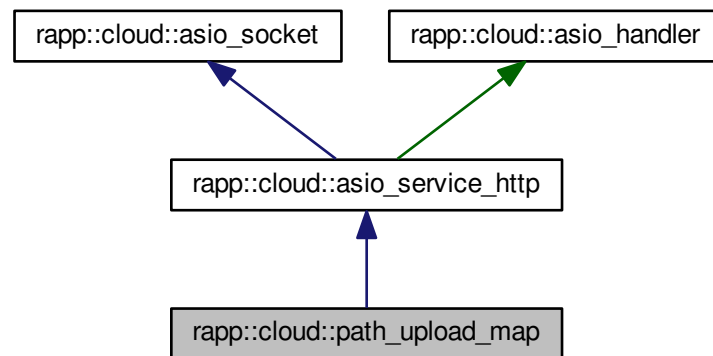
```
#include <path_planning.hpp>
```

Inheritance diagram for rapp::cloud::path\_upload\_map:





Collaboration diagram for rapp::cloud::path\_upload\_map:



### Additional Inherited Members

#### 6.53.1 Detailed Description

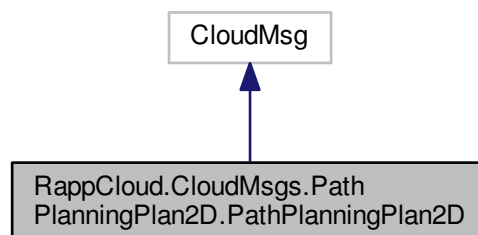
Definition at line 83 of file path\_planning.hpp.

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

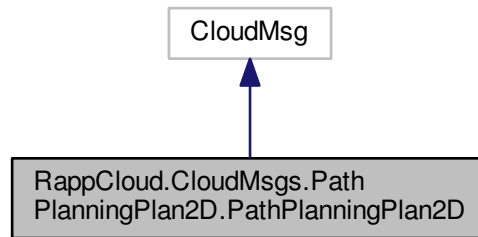
- /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/navigation/path\_planning/[path\\_planning.hpp](#)

## 6.54 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.54.1 Detailed Description

Path Planning Plan 2D Cloud Message object

For more information read on:

[https://github.com/rapp-project/rapp-platform/tree/master/rapp\\_path\\_planning/rapp\\_path\\_planning](https://github.com/rapp-project/rapp-platform/tree/master/rapp_path_planning/rapp_path_planning)

Definition at line 11 of file PathPlanningPlan2D.py.

### 6.54.2 Constructor & Destructor Documentation

6.54.2.1 def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.\_\_init\_\_( self, kwargs )

Constructor.

## Parameters

<b>**kwargs</b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.map_name</a></li> <li>• <a href="#">Request.robot_type</a></li> <li>• <a href="#">Request.algorithm</a></li> <li>• <a href="#">Request.pose_start</a></li> <li>• <a href="#">Request.pose_goal</a></li> </ul>
-----------------	---

Definition at line 95 of file PathPlanningPlan2D.py.

### 6.54.3 Member Data Documentation

#### 6.54.3.1 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.req

Definition at line 108 of file PathPlanningPlan2D.py.

#### 6.54.3.2 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.resp

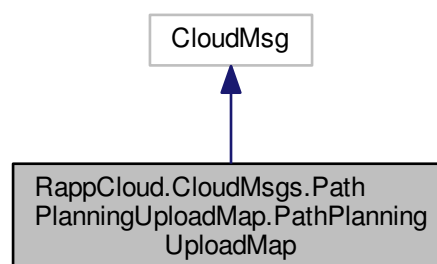
Definition at line 110 of file PathPlanningPlan2D.py.

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

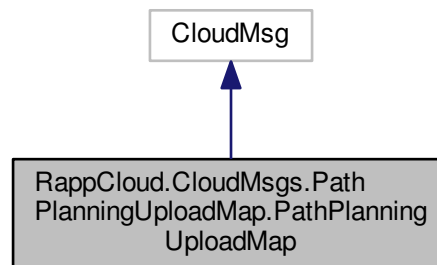
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py](#)

## 6.55 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.55.1 Detailed Description

Path Planning Upload Map Cloud Message object

Definition at line 11 of file PathPlanningUploadMap.py.

### 6.55.2 Constructor & Destructor Documentation

6.55.2.1 def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.\_\_init\_\_( self, kwargs )

Constructor.

Parameters

<b>**kwargs</b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.map_name</a></li> <li>• <a href="#">Request.png_file</a></li> <li>• <a href="#">Request.yaml_file</a></li> </ul>
-----------------	--

Definition at line 68 of file PathPlanningUploadMap.py.

### 6.55.3 Member Data Documentation

#### 6.55.3.1 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.req

Definition at line 79 of file PathPlanningUploadMap.py.

#### 6.55.3.2 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.resp

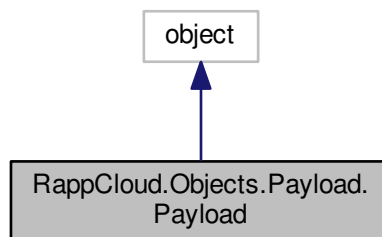
Definition at line 81 of file PathPlanningUploadMap.py.

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

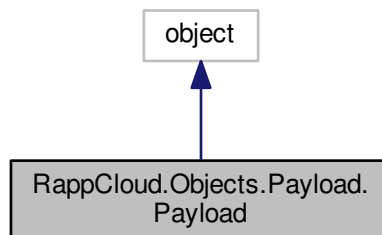
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[PathPlanningUploadMap.py](#)

## 6.56 RappCloud.Objects.Payload.Payload Class Reference

Inheritance diagram for RappCloud.Objects.Payload.Payload:



Collaboration diagram for RappCloud.Objects.Payload.Payload:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [\\_\\_eq\\_\\_](#)  
*Equality method.*
- def [append](#)  
*Append key-value pairs to the request payload.*
- def [make\\_json](#)  
*Serialize to Dictionary and create a json string.*
- def [remove](#)  
*Remove payload properties.*
- def [serialize](#)  
*Serialize to Dictionary.*

### 6.56.1 Detailed Description

Payload object class

Definition at line 30 of file Payload.py.

### 6.56.2 Constructor & Destructor Documentation

6.56.2.1 `def RappCloud.Objects.Payload.Payload.__init__( self, kwargs )`

Definition at line 32 of file Payload.py.

### 6.56.3 Member Function Documentation

6.56.3.1 `def RappCloud.Objects.Payload.Payload.__eq__( self, other )`

Equality method.

Definition at line 37 of file Payload.py.

6.56.3.2 `def RappCloud.Objects.Payload.Payload.append( self, kwargs )`

Append key-value pairs to the request payload.

Parameters

<b>**kwargs</b>	- Keyword arguments. Key-Value pairs to append to the payload.
-----------------	--

Definition at line 42 of file Payload.py.

6.56.3.3 `def RappCloud.Objects.Payload.Payload.make_json( self )`

Serialize to Dictionary and create a json string.

Returns

json - Request [Payload](#) json string.

Definition at line 70 of file Payload.py.

6.56.3.4 `def RappCloud.Objects.Payload.Payload.remove ( self, toDelAttr )`

Remove payload properties.

**Parameters**

<i>toDelAttr</i>	(Array) - Array of Strings for properties to remove from the payload.
------------------	---

Definition at line 52 of file Payload.py.

**6.56.3.5 def RappCloud.Objects.Payload.Payload.serialize ( self )**

Serialize to Dictionary.

**Returns**

dictionary - Request [Payload](#) dictionary.

Definition at line 62 of file Payload.py.

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

- /home/travis/rapp\_temp/rapp-api/python/RappCloud/Objects/[Payload.py](#)

**6.57 rapp::object::picture Class Reference**

class which wraps around raw bytes of a picture

```
#include <picture.hpp>
```

**Public Member Functions**

- [picture](#) (const std::string filepath)  
*Construct from a file-path.*
- [picture](#) (std::ifstream &bytestream)  
*Construct using an open file stream.*
- [picture](#) (const [picture](#) &)=default  
*Copy constructor.*
- std::vector< [rapp::types::byte](#) > [bytearray](#) () const  
*Get picture as array of bytes.*
- [picture](#) & [operator=](#) (const [picture](#) &)=default  
*Assignment operator.*
- bool [operator==](#) (const [picture](#) &rhs) const  
*picture equality*
- bool [save](#) (const std::string filepath)  
*Save picture to filepath.*
- std::string [type](#) () const  
*try and get image type (JPG/PNG supported)*

**Private Types**

- typedef char [byte](#)

**Private Member Functions**

- [picture](#) ()=delete
- void [opencb\\_](#) (std::ifstream &bytestream)



## Private Attributes

- `std::vector< rapp::types::byte > bytearray_`
- `std::string imgtype_`

### 6.57.1 Detailed Description

class which wraps around raw bytes of a picture

Version

3

Date

January 2016

Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file picture.hpp.

### 6.57.2 Member Typedef Documentation

6.57.2.1 `typedef char rapp::object::picture::byte` [private]

Definition at line 74 of file picture.hpp.

### 6.57.3 Constructor & Destructor Documentation

6.57.3.1 `rapp::object::picture::picture ( const std::string filepath )`

Construct from a file-path.

Definition at line 18 of file picture.hpp.

6.57.3.2 `rapp::object::picture::picture ( std::ifstream & bytestream )`

Construct using an open file stream.

Definition at line 29 of file picture.hpp.

6.57.3.3 `rapp::object::picture::picture ( const picture & )` [default]

Copy constructor.

6.57.3.4 `rapp::object::picture::picture ( )` [private],[delete]

### 6.57.4 Member Function Documentation

6.57.4.1 `std::vector<rapp::types::byte> rapp::object::picture::bytearray ( ) const`

Get picture as array of bytes.

Definition at line 47 of file picture.hpp.

**6.57.4.2** `void rapp::object::picture::opencb_ ( std::ifstream & bytestream ) [private]`

Definition at line 80 of file picture.hpp.

**6.57.4.3** `picture& rapp::object::picture::operator= ( const picture & ) [default]`

Assignment operator.

**6.57.4.4** `bool rapp::object::picture::operator== ( const picture & rhs ) const`

picture equality

Definition at line 41 of file picture.hpp.

**6.57.4.5** `bool rapp::object::picture::save ( const std::string filepath )`

Save picture to filepath.

Definition at line 59 of file picture.hpp.

**6.57.4.6** `std::string rapp::object::picture::type ( ) const`

try and get image type (JPG/PNG supported)

Definition at line 53 of file picture.hpp.

## 6.57.5 Member Data Documentation

**6.57.5.1** `std::vector<rapp::types::byte> rapp::object::picture::bytearray_ [private]`

Definition at line 97 of file picture.hpp.

**6.57.5.2** `std::string rapp::object::picture::imgtype_ [private]`

Definition at line 98 of file picture.hpp.

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

- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/objects/picture/picture.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/picture.hpp)

## 6.58 plan\_path2d Class Reference

plan a 2D path

```
#include <path_planning.hpp>
```

### 6.58.1 Detailed Description

plan a 2D path

Version

0.6.0

## Date

May 2016

## Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

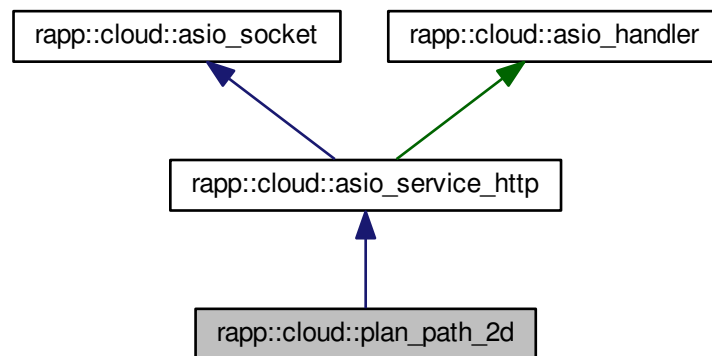
The documentation for this class was generated from the following file:

- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/navigation/path\\_planning/path\\_planning.hpp](#)

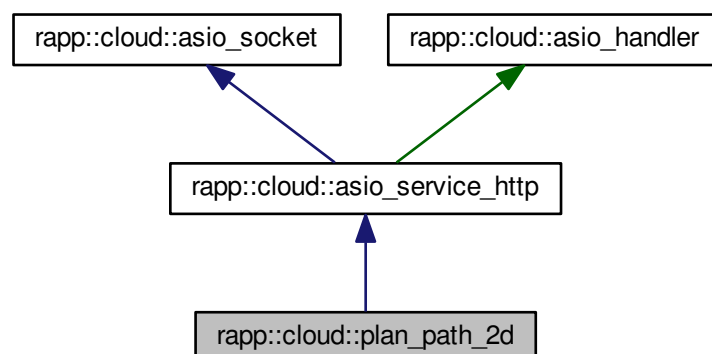
## 6.59 rapp::cloud::plan\_path\_2d Class Reference

```
#include <path_planning.hpp>
```

Inheritance diagram for rapp::cloud::plan\_path\_2d:



Collaboration diagram for rapp::cloud::plan\_path\_2d:



## Public Types

- typedef  
`rapp::object::microphone_wav wav_file`

## Public Member Functions

- `plan_path_d2` (const std::string map\_name, const std::string robot\_type, const std::string algorithm, std::function< void(std::unique\_ptr< `wav_file` >)> callback, const std::string token)

## Private Member Functions

- void `handle_reply` (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::unique\_ptr< `wav_file` > wav)> `delegate_`

## Additional Inherited Members

### 6.59.1 Detailed Description

Definition at line 13 of file path\_planning.hpp.

### 6.59.2 Member Typedef Documentation

#### 6.59.2.1 typedef rapp::object::microphone\_wav rapp::cloud::plan\_path\_2d::wav\_file

Definition at line 16 of file path\_planning.hpp.

### 6.59.3 Member Function Documentation

#### 6.59.3.1 void rapp::cloud::plan\_path\_2d::handle\_reply ( std::string json ) [private]

handle platform's JSON reply

Definition at line 45 of file path\_planning.hpp.

#### 6.59.3.2 rapp::cloud::plan\_path\_2d::plan\_path\_d2 ( const std::string map\_name, const std::string robot\_type, const std::string algorithm, std::function< void(std::unique\_ptr< `wav_file` >)> callback, const std::string token )

#### Parameters

<code>param</code>	will receive the speech audio object
--------------------	--------------------------------------

Definition at line 22 of file path\_planning.hpp.

## 6.59.4 Member Data Documentation

6.59.4.1 `std::function<void(std::unique_ptr<wav_file> wav)> rapp::cloud::plan_path_2d::delegate_` [private]

Definition at line 79 of file `path_planning.hpp`.

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

- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/path_planning.hpp`

## 6.60 rapp::object::qr\_code Class Reference

```
#include <qr_code.hpp>
```

### Public Member Functions

- `qr_code` (float `centre_x`, float `centre_y`, std::string `label`)  
*Construct using code coordinates (a rectangle) and a label (URL, email, string, etc)*
- `qr_code` ()=default  
*Allow Empty Constructor.*
- `qr_code` (const `qr_code` &)=default  
*Copy Constructor.*
- `std::string label` () const  
*Get the qr Label.*
- `bool operator==` (const `qr_code` &rhs) const

### Private Attributes

- float `centre_x__` = -1
- float `centre_y__` = -1
- std::string `message__`

### 6.60.1 Detailed Description

Definition at line 13 of file `qr_code.hpp`.

### 6.60.2 Constructor & Destructor Documentation

6.60.2.1 `rapp::object::qr_code::qr_code ( float centre_x, float centre_y, std::string label )`

Construct using code coordinates (a rectangle) and a label (URL, email, string, etc)

Parameters

<code>centre_x</code>	is coordinate
<code>centre_y</code>	is coordinate
<code>label</code>	is message embedded in QR

Definition at line 22 of file `qr_code.hpp`.

6.60.2.2 `rapp::object::qr_code::qr_code ( )` [default]

Allow Empty Constructor.

6.60.2.3 `rapp::object::qr_code::qr_code ( const qr_code & ) [default]`

Copy Constructor.

### 6.60.3 Member Function Documentation

6.60.3.1 `std::string rapp::object::qr_code::label ( ) const`

Get the qr Label.

Definition at line 48 of file `qr_code.hpp`.

6.60.3.2 `bool rapp::object::qr_code::operator== ( const qr_code & rhs ) const`

Equality operator

#### Note

the message is case insensitively compared

Definition at line 42 of file `qr_code.hpp`.

### 6.60.4 Member Data Documentation

6.60.4.1 `float rapp::object::qr_code::centre_x__ = -1 [private]`

Definition at line 54 of file `qr_code.hpp`.

6.60.4.2 `float rapp::object::qr_code::centre_y__ = -1 [private]`

Definition at line 55 of file `qr_code.hpp`.

6.60.4.3 `std::string rapp::object::qr_code::message__ [private]`

Definition at line 56 of file `qr_code.hpp`.

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

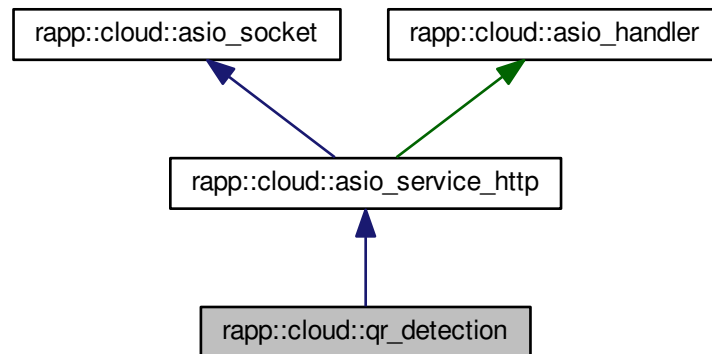
- `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr\_code.hpp`

## 6.61 rapp::cloud::qr\_detection Class Reference

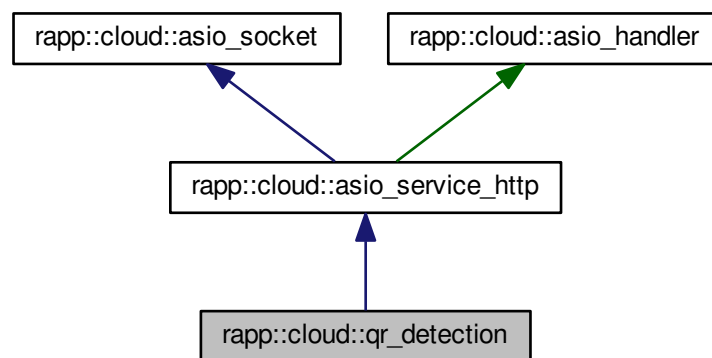
Asynchronous Service which will request the cloud to detect QR codes.

```
#include <qr_detection.hpp>
```

Inheritance diagram for rapp::cloud::qr\_detection:



Collaboration diagram for rapp::cloud::qr\_detection:



## Public Member Functions

- `qr_detection` (const std::shared\_ptr< rapp::object::picture > image, const std::string token, std::function< void(std::vector< rapp::object::qr\_code >)> callback)

*Constructor.*

## Private Member Functions

- void `handle_reply` (std::string json)

*handle the rapp-platform JSON reply*

## Private Attributes

- `std::function< void(std::vector< rapp::object::qr_code >)> delegate__`

*The callback called upon completion of receiving the detected faces.*

## Additional Inherited Members

### 6.61.1 Detailed Description

Asynchronous Service which will request the cloud to detect QR codes.

#### Version

0.6.0

#### Date

April 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `qr_detection.hpp`.

### 6.61.2 Constructor & Destructor Documentation

6.61.2.1 `rapp::cloud::qr_detection::qr_detection ( const std::shared_ptr< rapp::object::picture > image, const std::string token, std::function< void(std::vector< rapp::object::qr_code >)> callback )`

Constructor.

#### Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a vector of detected qr(s)
<i>image_format</i>	must be defined, e.g.: jpeg, png, gif, etc.

Definition at line 22 of file `qr_detection.hpp`.

### 6.61.3 Member Function Documentation

6.61.3.1 `void rapp::cloud::qr_detection::handle_reply ( std::string json ) [private]`

handle the rapp-platform JSON reply

Definition at line 57 of file `qr_detection.hpp`.

### 6.61.4 Member Data Documentation

6.61.4.1 `std::function<void(std::vector<rapp::object::qr_code>)> rapp::cloud::qr_detection::delegate__`  
[private]

The callback called upon completion of receiving the detected faces.



Definition at line 98 of file qr\_detection.hpp.

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

- /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/vision/qr\_detection/[qr\\_detection.hpp](#)

## 6.62 qrCode Class Reference

class which should encapsulate a QR code

```
#include <qr_code.hpp>
```

### 6.62.1 Detailed Description

class which should encapsulate a QR code

Version

1

Date

13-February-2015

Author

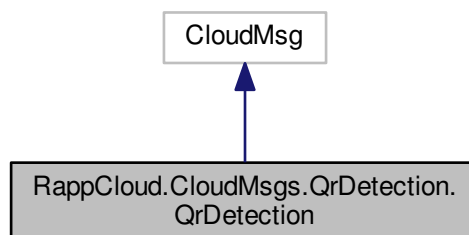
Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

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

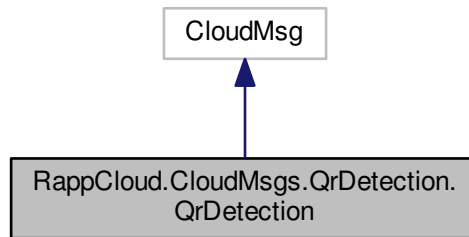
- /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/qr\_code/[qr\\_code.hpp](#)

## 6.63 RappCloud.CloudMsgs.QrDetection.QrDetection Class Reference

Inheritance diagram for RappCloud.CloudMsgs.QrDetection.QrDetection:



Collaboration diagram for RappCloud.CloudMsgs.QrDetection.QrDetection:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.63.1 Detailed Description

Qr Detection Cloud Message object

Definition at line 11 of file QrDetection.py.

### 6.63.2 Constructor & Destructor Documentation

6.63.2.1 def RappCloud.CloudMsgs.QrDetection.QrDetection.\_\_init\_\_( self, kwargs )

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.imageFilePath</a></li> </ul>
------------------------------	--

Definition at line 60 of file QrDetection.py.

### 6.63.3 Member Data Documentation

#### 6.63.3.1 RappCloud.CloudMsgs.QrDetection.QrDetection.req

Definition at line 69 of file QrDetection.py.

#### 6.63.3.2 RappCloud.CloudMsgs.QrDetection.QrDetection.resp

Definition at line 71 of file QrDetection.py.

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

- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py](#)

## 6.64 RappCloud.Utills.RandStrGen.RandStrGen Class Reference

### Static Public Member Functions

- [def create](#)

*Generate a nwe random string.*

### 6.64.1 Detailed Description

Random String Generator static class (Namespace).

Generates random string boundaries.

Definition at line 34 of file RandStrGen.py.

### 6.64.2 Member Function Documentation

#### 6.64.2.1 `def RappCloud.Utills.RandStrGen.RandStrGen.create ( size ) [static]`

Generate a nwe random string.

Parameters

<i>size</i>	string - Number of characters for the random string to generate
-------------	---

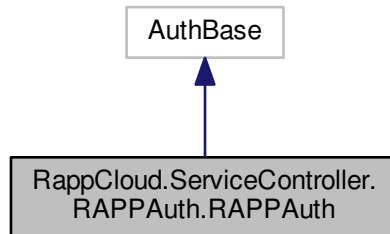
Definition at line 41 of file RandStrGen.py.

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

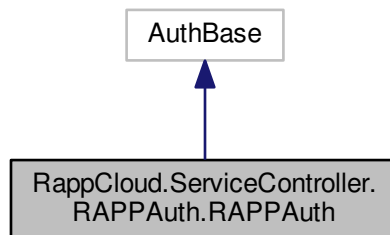
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/Utills/RandStrGen.py](#)

## 6.65 RappCloud.ServiceController.RAPPAuth.RAPPAuth Class Reference

Inheritance diagram for RappCloud.ServiceController.RAPPAuth.RAPPAuth:



Collaboration diagram for RappCloud.ServiceController.RAPPAuth.RAPPAuth:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*
- [def \\_\\_call\\_\\_](#)  
*Append the application token to the HTTP application protocol header.*

### Private Member Functions

- [def \\_\\_load\\_token](#)  
*Load the RAPP Platform authentication token.*
- [def \\_\\_read\\_token\\_from\\_file](#)  
*Read and token string stored in a file.*

## Private Attributes

- [\\_token](#)
- [\\_tokenStoreDir](#)

### 6.65.1 Detailed Description

RAPP Authentication Class

Implements the RAPP Authentication mechanism for Platform requests.

Definition at line 34 of file RAPPAuth.py.

### 6.65.2 Constructor & Destructor Documentation

6.65.2.1 `def RappCloud.ServiceController.RAPPAuth.RAPPAuth.__init__( self, token = "", svcname = " )`

Constructor.

Parameters

<i>string</i>	token
<i>string</i>	svcname - The service/application name.

Definition at line 40 of file RAPPAuth.py.

### 6.65.3 Member Function Documentation

6.65.3.1 `def RappCloud.ServiceController.RAPPAuth.RAPPAuth.__call__( self, r )`

Append the application token to the HTTP application protocol header.

Modify the request object. Append token string to the Accept-Token field of the request header.

Definition at line 55 of file RAPPAuth.py.

6.65.3.2 `def RappCloud.ServiceController.RAPPAuth.RAPPAuth.__load_token( self, svcname = " " )` [private]

Load the RAPP Platform authentication token.

Currently only one application token exists, giving access to all the RAPP Platform services!!

Definition at line 65 of file RAPPAuth.py.

6.65.3.3 `def RappCloud.ServiceController.RAPPAuth.RAPPAuth.__read_token_from_file( self, filepath )` [private]

Read and token string stored in a file.

Parameters

<i>filepath</i>	string - The token file path.
-----------------	-------------------------------

Definition at line 75 of file RAPPAuth.py.

### 6.65.4 Member Data Documentation

#### 6.65.4.1 `RappCloud.ServiceController.RAPPAuth.RAPPAuth._token` [private]

Definition at line 50 of file `RAPPAuth.py`.

#### 6.65.4.2 `RappCloud.ServiceController.RAPPAuth.RAPPAuth._tokenStoreDir` [private]

Definition at line 47 of file `RAPPAuth.py`.

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

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/RAPPAuth.py`

## 6.66 `RappCloud.RappPlatformApi.RappPlatformAPI` Class Reference

### Public Member Functions

- def `__init__`
- def `cognitiveExerciseSelect`  
*Cognitive Exercise selection (chooser) API service call.*
- def `cognitiveGetHistory`  
*Gognitive get history records API service call.*
- def `cognitiveGetScores`  
*Gognitive get score records API service call.*
- def `cognitiveRecordPerformance`  
*Gognitive record performance of an exercise API service call.*
- def `emailFetch`  
*Email fetch API service call.*
- def `emailSend`  
*Email fetch API service call.*
- def `faceDetection`  
*Face detection API service call.*
- def `geolocation`  
*Geolocation API service call.*
- def `hazardDetectionDoor`  
*Hazard detection door check API service call.*
- def `hazardDetectionLights`  
*Hazard detection light check API service call.*
- def `humanDetection`  
*Human detection API service call.*
- def `newsExplore`  
*News Explorer API service call.*
- def `objectRecognitionCaffe`  
*Object Recognition Caffe API service call.*
- def `ontologyIsSubsuperclass`  
*Ontology is-superclass-of API service call.*
- def `ontologySubclasses`  
*Ontology subclasses-of API service call.*
- def `ontologySuperclasses`  
*Ontology superclasses-of API service call.*
- def `pathPlanningPlan2D`  
*Path planning plan path 2D API service call.*

- def [pathPlanningUploadMap](#)  
*Path planning upload map API service call.*
- def [qrDetection](#)  
*QR code detection API service call.*
- def [setNoiseProfile](#)  
*Set Noise Profile API service call.*
- def [speechRecognitionGoogle](#)  
*Speech recognition Google API service call.*
- def [speechRecognitionSphinx](#)  
*Speech recognition Sphinx API service call.*
- def [textToSpeech](#)  
*Text to Speech API service call.*
- def [weatherReportCurrent](#)  
*Weather report current API service call.*
- def [weatherReportForecast](#)  
*Weather report forecast API service call.*

## Public Attributes

- [svc\\_caller](#)

### 6.66.1 Detailed Description

RAPP Platform simple API implementation

Definition at line 57 of file RappPlatformApi.py.

### 6.66.2 Constructor & Destructor Documentation

6.66.2.1 `def RappCloud.RappPlatformApi.RappPlatformAPI.__init__( self )`

Definition at line 59 of file RappPlatformApi.py.

### 6.66.3 Member Function Documentation

6.66.3.1 `def RappCloud.RappPlatformApi.RappPlatformAPI.cognitiveExerciseSelect( self, test_type = "", test_subtype = "", test_diff = -1, test_index = -1 )`

Cognitive Exercise selection (chooser) API service call.

test\_type: string

Parameters

<i>test_type</i>	Cognitive Exercise test type. Defaults to empty.
------------------	--

test\_subtype: string

Parameters

<i>test_subtype</i>	Force exercise selection from this subtype. Defaults to empty.
---------------------	--

test\_diff: int

**Parameters**

<i>test_diff</i>	Force exercise selection from this difficulty. Defaults to empty.
------------------	---

test\_index: int

**Parameters**

<i>test_diff</i>	Force exercise selection from this difficulty. Defaults to empty.
------------------	---

: dict

**Returns**

: Returns a dictionary of the service call response.

Definition at line 373 of file RappPlatformApi.py.

**6.66.3.2** `def RappCloud.RappPlatformApi.RappPlatformAPI.cognitiveGetHistory ( self, test_type = "", time_from = 0, time_to = 0 )`

Cognitive get history records API service call.

test\_type: string

**Parameters**

<i>test_type</i>	Cognitive Exercise test type. Defaults to empty.
------------------	--

time\_from: int

**Parameters**

<i>time_from</i>	Retrieve history records from this timestamp value. Unix timestamp. Defaults to zero (0).
------------------	---

time\_to: int

**Parameters**

<i>time_from</i>	Retrieve history records up to this timestamp value. Unix timestamp. Defaults to zero (0).
------------------	--

: dict

**Returns**

: Returns a dictionary of the service call response. {'records': {}, 'error': ""}

Definition at line 415 of file RappPlatformApi.py.

**6.66.3.3** `def RappCloud.RappPlatformApi.RappPlatformAPI.cognitiveGetScores ( self, test_type = "", time_to = 0 )`

Cognitive get score records API service call.

test\_type: string

**Parameters**

<i>test_type</i>	Cognitive Exercise test type. Defaults to empty.
------------------	--

time\_to: int

**Parameters**

<i>time_from</i>	Retrieve score records up to this timestamp value. Unix timestamp. Defaults to zero (0).
------------------	--

: dict

**Returns**

: Returns a dictionary of the service call response. {'test\_classes': [], 'scores': [], 'error': ""}

Definition at line 446 of file RappPlatformApi.py.



6.66.3.4 `def RappCloud.RappPlatformApi.RappPlatformAPI.cognitiveRecordPerformance ( self, test_instance, score )`

Cognitive record performance of an exercise API service call.

test\_instance: string

Parameters

<i>test_instance</i>	Performed cognitive exercise test instance. The full cognitive test entry name as obtained from CognitiveExerciseSelect API service call
----------------------	--

: dict

Returns

: Returns a dictionary of the service call response. {'performance\_entry': "", 'error': ""}

Definition at line 473 of file RappPlatformApi.py.

6.66.3.5 `def RappCloud.RappPlatformApi.RappPlatformAPI.emailFetch ( self, email, password, server, port, date_from, date_to, email_status = 'UNSEEN', num_emails = 1 )`

Email fetch API service call.

email: string

Parameters

<i>email</i>	User's email username
--------------	-----------------------

password: string

Parameters

<i>password</i>	User's email password
-----------------	-----------------------

server: string

Parameters

<i>server</i>	The email provider imap address.
---------------	----------------------------------

port: string

Parameters

<i>port</i>	The email provider imap port.
-------------	-------------------------------

date\_from: int

Parameters

<i>date_from</i>	Fetch emails since this timestamp value. Unix timestamp.
------------------	--

date\_to: int

Parameters

<i>date_to</i>	Fetch emails up to this timestamp value. Unix timestamp.
----------------	--

email\_status: string

Parameters

<i>email_status</i>	Email status (ALL, UNSEEN). Defaults to 'UNSEEN'
---------------------	--

num\_emails: int

**Parameters**

<i>num_emails</i>	Maximum number of emails to fetch.
-------------------	------------------------------------

: dict

**Returns**

: Returns a dictionary of the service call response. {'emails': [], 'error': ''}

Definition at line 498 of file RappPlatformApi.py.

```
6.66.3.6 def RappCloud.RappPlatformApi.RappPlatformAPI.emailSend ( self, email, password, server, port, recipients,
    body, subject, attach_file = '' )
```

Email fetch API service call.

email: string

**Parameters**

<i>email</i>	User's email username
--------------	-----------------------

password: string

**Parameters**

<i>password</i>	User's email password
-----------------	-----------------------

server: string

**Parameters**

<i>server</i>	The email provider imap address.
---------------	----------------------------------

port: string

**Parameters**

<i>port</i>	The email provider imap port.
-------------	-------------------------------

recipients: list

**Parameters**

<i>recipients</i>	List of recipients email addresses.
-------------------	-------------------------------------

body: string

**Parameters**

<i>body</i>	The body of the email.
-------------	------------------------

subject: string

**Parameters**

<i>subject</i>	The email subject.
----------------	--------------------

attach\_file: string

**Parameters**

<i>attach_file</i>	Attachment file (path). Attachment file can be a .zip file containing multiple attachment files for the email to send
--------------------	---

: dict

**Returns**

: Returns a dictionary of the service call response. {'error': ''}

Definition at line 550 of file RappPlatformApi.py.

6.66.3.7 `def RappCloud.RappPlatformApi.RappPlatformAPI.faceDetection ( self, imagePath, fast=False )`

Face detection API service call.

imageFilepath: string

Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

fast: bool

Parameters

<i>fast</i>	Perform fast detection. If true, detection will take less time but it will be less accurate.
-------------	--

: dict

Returns

: Returns a dictionary of the service call response. {'faces': [], 'error': ''}

Definition at line 62 of file RappPlatformApi.py.

6.66.3.8 `def RappCloud.RappPlatformApi.RappPlatformAPI.geolocation ( self, ipaddr, engine='ip-api' )`

Geolocation API service call.

ipaddr: string

Parameters

<i>ipaddr</i>	The machine's ipv4 address.
---------------	-----------------------------

engine: string

Parameters

<i>engine</i>	Engine to use. Defaults to 'ip-api'.
---------------	--------------------------------------

: dict

Returns

: Returns a dictionary of the service call response.

Definition at line 810 of file RappPlatformApi.py.

6.66.3.9 `def RappCloud.RappPlatformApi.RappPlatformAPI.hazardDetectionDoor ( self, imagePath )`

Hazard detection door check API service call.

imageFilepath: string

Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'door\_angle': 0.0, 'error': ''}

Definition at line 131 of file RappPlatformApi.py.

6.66.3.10 `def RappCloud.RappPlatformApi.RappPlatformAPI.hazardDetectionLights ( self, imageFilepath )`

Hazard detection light check API service call.

`imageFilepath`: string

## Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

## Returns

: Returns a dictionary of the service call response. {'light\_level': 0, 'error': ''}

Definition at line 152 of file RappPlatformApi.py.

## 6.66.3.11 def RappCloud.RappPlatformApi.RappPlatformAPI.humanDetection ( self, imageFilepath )

Human detection API service call.

imageFilepath: string

## Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

## Returns

: Returns a dictionary of the service call response. {'humans': [], 'error': ''}

Definition at line 109 of file RappPlatformApi.py.

## 6.66.3.12 def RappCloud.RappPlatformApi.RappPlatformAPI.newsExplore ( self, keywords, region = "", topic = "", news\_engine = "", num\_news = 1, exclude\_titles = [] )

News Explorer API service call.

keywords: list

## Parameters

<i>keywords</i>	Desired keywords.
-----------------	-------------------

region: string

## Parameters

<i>region</i>	language/region
---------------	-----------------

topic: string

## Parameters

<i>topic</i>	Main topic. e.g. 'sports', 'politics', etc
--------------	--

news\_engine: string

## Parameters

<i>news_engine</i>	The news search engine to use. Optional
--------------------	---

num\_news: string

## Parameters

<i>num_news</i>	Number of news stories to request.
-----------------	------------------------------------

exclude\_titles: list

**Parameters**

<i>exclude_titles</i>	Exclude these titles
-----------------------	----------------------

: dict

**Returns**

: Returns a dictionary of the service call response. {'news\_stories': [], 'error': ''}

Definition at line 769 of file RappPlatformApi.py.

### 6.66.3.13 def RappCloud.RappPlatformApi.RappPlatformAPI.objectRecognitionCaffe ( self, imageFilepath )

Object Recognition Caffe API service call.

imageFilepath: string

**Parameters**

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

**Returns**

: Returns a dictionary of the service call response. {'object\_class': '', 'error': ''}

Definition at line 173 of file RappPlatformApi.py.

### 6.66.3.14 def RappCloud.RappPlatformApi.RappPlatformAPI.ontologyIsSubsuperclass ( self, parent\_class, child\_class, recursive = False )

Ontology is-supsuperclass-of API service call.

parent\_class: string

**Parameters**

<i>parent_class</i>	The ontology parent class name.
---------------------	---------------------------------

child\_class: string

**Parameters**

<i>child_class</i>	The ontology child class name.
--------------------	--------------------------------

recursive: bool

**Parameters**

<i>recursive</i>	Recursive search. Defaults to False.
------------------	--------------------------------------

: dict

**Returns**

: Returns a dictionary of the service call response. {'result': False, 'error': ''}

Definition at line 343 of file RappPlatformApi.py.

### 6.66.3.15 def RappCloud.RappPlatformApi.RappPlatformAPI.ontologySubclasses ( self, ontology\_class, recursive = False )

Ontology subclasses-of API service call.

ontology\_class: string

## Parameters

<i>ontology_class</i>	The ontology class.
-----------------------	---------------------

recursive: bool

## Parameters

<i>recursive</i>	Recursive search. Defaults to False.
------------------	--------------------------------------

: dict

## Returns

: Returns a dictionary of the service call response. {'results': [], 'error': ''}

Definition at line 293 of file RappPlatformApi.py.

```
6.66.3.16 def RappCloud.RappPlatformApi.RappPlatformAPI.ontologySuperclasses ( self, ontology_class, recursive =
False )
```

Ontology superclasses-of API service call.

ontology\_class: string

## Parameters

<i>ontology_class</i>	The ontology class.
-----------------------	---------------------

recursive: bool

## Parameters

<i>recursive</i>	Recursive search. Defaults to False.
------------------	--------------------------------------

: dict

## Returns

: Returns a dictionary of the service call response. {'results': [], 'error': ''}

Definition at line 318 of file RappPlatformApi.py.

```
6.66.3.17 def RappCloud.RappPlatformApi.RappPlatformAPI.pathPlanningPlan2D ( self, map_name, robot_type, pose_start,
pose_goal, algorithm = 'dijkstra' )
```

Path planning plan path 2D API service call.

map\_name: string

## Parameters

<i>map_name</i>	The map name.
-----------------	---------------

robot\_type: string

## Parameters

<i>robot_type</i>	The robot type. e.g 'NAO'
-------------------	---------------------------

pose\_start: dict

## Parameters

<i>pose_start</i>	Start pose of the robot.
-------------------	--------------------------

pose\_goal: dict

**Parameters**

<i>pose_goal</i>	Goal pose of the robot.
------------------	-------------------------

algorithm: string

**Parameters**

<i>algorithm</i>	Path planning algorithm to apply. Defaults to 'dijkstra'
------------------	--

: dict

**Returns**

: Returns a dictionary of the service call response. {'plan\_found': 0, 'path': [], 'error': ''}

Definition at line 670 of file RappPlatformApi.py.

```
6.66.3.18 def RappCloud.RappPlatformApi.RappPlatformAPI.pathPlanningUploadMap ( self, map_name, png_file, yaml_file )
```

Path planning upload map API service call.

map\_name: string

**Parameters**

<i>map_name</i>	The map name
-----------------	--------------

png\_file: string

**Parameters**

<i>png_file</i>	Path to the map png file
-----------------	--------------------------

yaml\_file: string

**Parameters**

<i>yaml_file</i>	Path to the map descriptor yaml file.
------------------	---------------------------------------

: dict

**Returns**

: Returns a dictionary of the service call response. {'error': ''}

Definition at line 710 of file RappPlatformApi.py.

```
6.66.3.19 def RappCloud.RappPlatformApi.RappPlatformAPI.qrDetection ( self, imageFilepath )
```

QR code detection API service call.

imageFilepath: string

**Parameters**

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

**Returns**

: Returns a dictionary of the service call response. {'qr\_centers': [], 'qr\_messages': [], 'error': ''}

Definition at line 87 of file RappPlatformApi.py.



6.66.3.20 `def RappCloud.RappPlatformApi.RappPlatformAPI.setNoiseProfile ( self, audiofile, audio_source )`

Set Noise Profile API service call.

`audiofile`: string

**Parameters**

<i>audiofile</i>	Path to the audio file.
------------------	-------------------------

audio\_source: string

**Parameters**

<i>audio_source</i>	Audio source format. e.g. 'nao_wav_1_ch'
---------------------	--

: dict

**Returns**

: Returns a dictionary of the service call response. {'error': ''}

Definition at line 194 of file RappPlatformApi.py.

```
6.66.3.21 def RappCloud.RappPlatformApi.RappPlatformAPI.speechRecognitionGoogle ( self, audiofile, audio_source, language )
```

Speech recognition Google API service call.

audiofile: string

**Parameters**

<i>audiofile</i>	Path to the audio file.
------------------	-------------------------

audio\_source: string

**Parameters**

<i>audio_source</i>	Audio source format. e.g. 'nao_wav_1_ch'
---------------------	--

language: string

**Parameters**

<i>language</i>	Language to use for speech recognition.
-----------------	---

: dict

**Returns**

: Returns a dictionary of the service call response. {'words': [], 'alternatives': [], 'error': ''}

Definition at line 263 of file RappPlatformApi.py.

```
6.66.3.22 def RappCloud.RappPlatformApi.RappPlatformAPI.speechRecognitionSphinx ( self, audiofile, audio_source, language, words, sentences = [], grammar = [] )
```

Speech recognition Sphinx API service call.

audiofile: string

**Parameters**

<i>audiofile</i>	Path to the audio file.
------------------	-------------------------

audio\_source: string

**Parameters**

<i>audio_source</i>	Audio source format. e.g. 'nao_wav_1_ch'
---------------------	--

language: string

## Parameters

<i>language</i>	Language to use for speech recognition.
-----------------	---

words: list

## Parameters

<i>words</i>	To recognize words.
--------------	---------------------

sentences: list

## Parameters

<i>sentences</i>	Under consideration sentences. Same as words by default.
------------------	--

grammar: list

## Parameters

<i>grammar</i>	Grammar to use. Defaults to none.
----------------	-----------------------------------

: dict

## Returns

: Returns a dictionary of the service call response. {'words': [], 'error': ''}

Definition at line 219 of file RappPlatformApi.py.

## 6.66.3.23 def RappCloud.RappPlatformApi.RappPlatformAPI.textToSpeech ( self, text, language, audio\_file )

Text to Speech API service call.

text: string

## Parameters

<i>text</i>	Input text to translate to audio.
-------------	-----------------------------------

language: string

## Parameters

<i>language</i>	Text language.
-----------------	----------------

audio\_file: string

## Parameters

<i>audio_file</i>	File path to store the audio data.
-------------------	------------------------------------

: dict

## Returns

: Returns a dictionary of the service call response. {'error': ''}

Definition at line 738 of file RappPlatformApi.py.

## 6.66.3.24 def RappCloud.RappPlatformApi.RappPlatformAPI.weatherReportCurrent ( self, city, weather\_reporter = 'forecast.io', metric = 0 )

Weather report current API service call.

city: string

**Parameters**

<i>city</i>	City location.
-------------	----------------

weather\_reporter: string

**Parameters**

<i>weather_reporter</i>	The weather reporter API to use. Defaults to 'forecast.io'
-------------------------	--

metric: int

**Parameters**

<i>metric</i>	Value units (0:Celcius, 1:Fahrenheit) Defaults to 0 (Celcius)
---------------	---

: dict

**Returns**

: Returns a dictionary of the service call response.

Definition at line 600 of file RappPlatformApi.py.

```
6.66.3.25 def RappCloud.RappPlatformApi.RappPlatformAPI.weatherReportForecast ( self, city, weather_reporter =
           'forecast.io', metric = 0 )
```

Weather report forecast API service call.

city: string

**Parameters**

<i>city</i>	City location.
-------------	----------------

weather\_reporter: string

**Parameters**

<i>weather_reporter</i>	The weather reporter API to use. Defaults to 'forecast.io'
-------------------------	--

metric: int

**Parameters**

<i>metric</i>	Value units (0:Celcius, 1:Fahrenheit) Defaults to 0 (Celcius)
---------------	---

: dict

**Returns**

: Returns a dictionary of the service call response.

Definition at line 639 of file RappPlatformApi.py.

**6.66.4 Member Data Documentation****6.66.4.1 RappCloud.RappPlatformApi.RappPlatformAPI.svc\_caller**

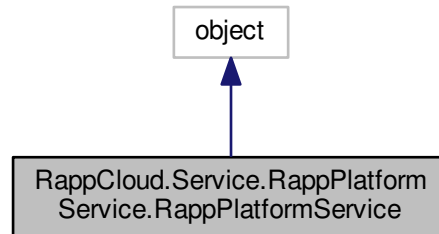
Definition at line 60 of file RappPlatformApi.py.

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

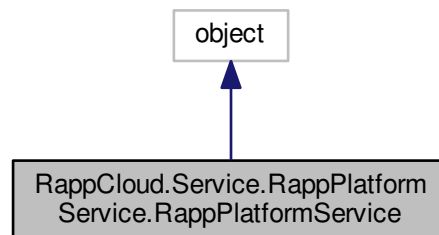
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/[RappPlatformApi.py](#)

## 6.67 RappCloud.Service.RappPlatformService.RappPlatformService Class Reference

Inheritance diagram for RappCloud.Service.RappPlatformService.RappPlatformService:



Collaboration diagram for RappCloud.Service.RappPlatformService.RappPlatformService:



### Public Member Functions

- def `__init__`  
*Constructor.*
- def `call`  
*Call the RAPP Platform [Service](#).*
- def `call_async`  
*Call the RAPP Platform [Service](#).*
- def `persistent`  
*[Service](#) persistent connection value getter.*
- def `persistent`  
*[Service](#) persistent connection value setter.*
- def `req`  
*[Service](#) request object getter.*
- def `resp`  
*[Service](#) response object getter.*

- def `resp`  
*Service response object setter.*
- def `timeout`  
*Service timeout value getter.*
- def `timeout`  
*Service timeout value setter.*

### Private Member Functions

- def `__load_platform_cfg`
- def `__make_url`  
*Craft platform service full url path.*

### Private Attributes

- `__cloudObj`  
*Cloud Object passed to the `RappPlatformService`.*
- `__controller`  
*Service Controller.*
- `__controllerAsync`
- `__persistent`  
*Persistent connection value (Boolean)*
- `__platformParams`
- `__timeout`

## 6.67.1 Detailed Description

Service class

Definition at line 35 of file `RappPlatformService.py`.

## 6.67.2 Constructor & Destructor Documentation

6.67.2.1 `def RappCloud.Service.RappPlatformService.RappPlatformService.__init__( self, msg=None, persistent=True, timeout=None, address=None, port=None, protocol=None, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes.
-----------------------	--

Definition at line 40 of file `RappPlatformService.py`.

## 6.67.3 Member Function Documentation

6.67.3.1 `def RappCloud.Service.RappPlatformService.RappPlatformService.__load_platform_cfg( self ) [private]`

Definition at line 153 of file `RappPlatformService.py`.

6.67.3.2 `def RappCloud.Service.RappPlatformService.RappPlatformService._make_url( self, svcUrlName ) [private]`

Craft platform service full url path.

## Parameters

<i>svcUrlName</i>	string - The service urlname, i.e 'face_detection'
-------------------	--

## Returns

string - The full service url path.

Definition at line 114 of file RappPlatformService.py.

**6.67.3.3** `def RappCloud.Service.RappPlatformService.RappPlatformService.call ( self, msg = None )`

Call the RAPP Platform [Service](#).

Definition at line 127 of file RappPlatformService.py.

**6.67.3.4** `def RappCloud.Service.RappPlatformService.RappPlatformService.call_async ( self, msg, clb = None )`

Call the RAPP Platform [Service](#).

Definition at line 144 of file RappPlatformService.py.

**6.67.3.5** `def RappCloud.Service.RappPlatformService.RappPlatformService.persistent ( self )`

[Service](#) persistent connection value getter.

Definition at line 74 of file RappPlatformService.py.

**6.67.3.6** `def RappCloud.Service.RappPlatformService.RappPlatformService.persistent ( self, val )`

[Service](#) persistent connection value setter.

Definition at line 79 of file RappPlatformService.py.

**6.67.3.7** `def RappCloud.Service.RappPlatformService.RappPlatformService.req ( self )`

[Service](#) request object getter.

Definition at line 97 of file RappPlatformService.py.

**6.67.3.8** `def RappCloud.Service.RappPlatformService.RappPlatformService.resp ( self )`

[Service](#) response object getter.

Definition at line 103 of file RappPlatformService.py.

**6.67.3.9** `def RappCloud.Service.RappPlatformService.RappPlatformService.resp ( self, val )`

[Service](#) response object setter.

Definition at line 109 of file RappPlatformService.py.

**6.67.3.10** `def RappCloud.Service.RappPlatformService.RappPlatformService.timeout ( self )`

[Service](#) timeout value getter.

Definition at line 85 of file RappPlatformService.py.

6.67.3.11 `def RappCloud.Service.RappPlatformService.RappPlatformService.timeout ( self, val )`

[Service](#) timeout value setter.

Definition at line 91 of file `RappPlatformService.py`.

## 6.67.4 Member Data Documentation

6.67.4.1 `RappCloud.Service.RappPlatformService.RappPlatformService.__cloudObj` `[private]`

Cloud Object passed to the [RappPlatformService](#).

Definition at line 59 of file `RappPlatformService.py`.

6.67.4.2 `RappCloud.Service.RappPlatformService.RappPlatformService.__controller` `[private]`

[Service](#) Controller.

Definition at line 69 of file `RappPlatformService.py`.

6.67.4.3 `RappCloud.Service.RappPlatformService.RappPlatformService.__controllerAsync` `[private]`

Definition at line 70 of file `RappPlatformService.py`.

6.67.4.4 `RappCloud.Service.RappPlatformService.RappPlatformService.__persistent` `[private]`

Persistent connection value (Boolean)

Definition at line 61 of file `RappPlatformService.py`.

6.67.4.5 `RappCloud.Service.RappPlatformService.RappPlatformService.__platformParams` `[private]`

Definition at line 173 of file `RappPlatformService.py`.

6.67.4.6 `RappCloud.Service.RappPlatformService.RappPlatformService.__timeout` `[private]`

Definition at line 63 of file `RappPlatformService.py`.

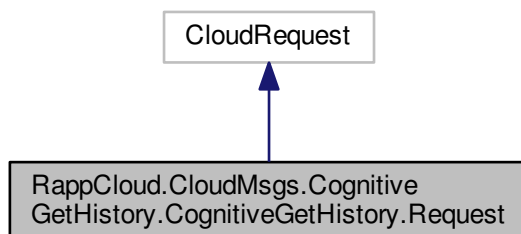
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/Service/RappPlatformService.py`

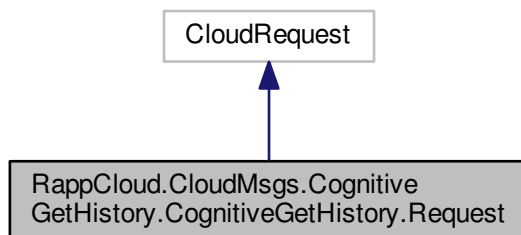


## 6.68 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

### Public Attributes

- `test\_type`  
*Cognitive Exercise test type.*
- `time\_from`  
*Unix timestamp.*
- `time\_to`  
*Unix timestamp.*

### 6.68.1 Detailed Description

Cognitive Get History Cloud Request object.

`CognitiveGetHistory.Request`

Definition at line 14 of file `CognitiveGetHistory.py`.

### 6.68.2 Constructor & Destructor Documentation

6.68.2.1 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>test_type</code></li> <li>• <code>time_from</code></li> <li>• <code>time_to</code></li> </ul>
------------------------------	---

Definition at line 19 of file `CognitiveGetHistory.py`.

### 6.68.3 Member Function Documentation

6.68.3.1 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 52 of file `CognitiveGetHistory.py`.

6.68.3.2 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 44 of file `CognitiveGetHistory.py`.

### 6.68.4 Member Data Documentation

6.68.4.1 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.test_type`

Cognitive Exercise test type.

Can be one of:

- 'ArithmeticCts'
- 'AwarenessCts'
- 'ReasoningCts'
- ''

If left empty, history of all test types will be returned.

Definition at line 36 of file `CognitiveGetHistory.py`.

## 6.68.4.2 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.time\_from

Unix timestamp.

Definition at line 38 of file CognitiveGetHistory.py.

## 6.68.4.3 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.time\_to

Unix timestamp.

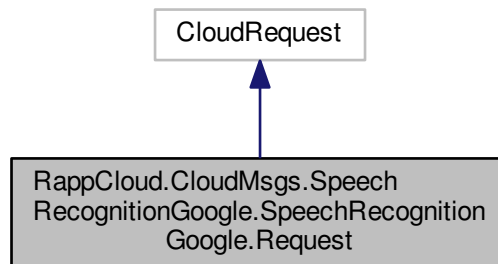
Definition at line 40 of file CognitiveGetHistory.py.

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

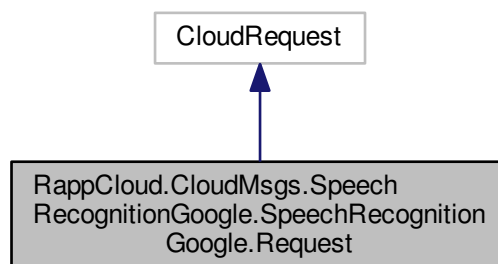
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py](#)

## 6.69 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request:



## Public Member Functions

- `def __init__`  
*Constructor.*
- `def make_files`
- `def make_payload`

## Public Attributes

- `audio_source`  
*Audio source data format.*
- `audiofile`  
*Path to the audio file.*
- `language`  
*Language to use for recognition.*

### 6.69.1 Detailed Description

Speech Recognition Google Cloud Request object.

`SpeechRecognitionGoogle.Request`

Definition at line 14 of file `SpeechRecognitionGoogle.py`.

### 6.69.2 Constructor & Destructor Documentation

6.69.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>audio_source</code></li> <li>• <code>audiofile</code></li> <li>• <code>language</code></li> </ul>
-----------------------	---

Definition at line 19 of file `SpeechRecognitionGoogle.py`.

### 6.69.3 Member Function Documentation

6.69.3.1 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 46 of file `SpeechRecognitionGoogle.py`.

6.69.3.2 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 39 of file `SpeechRecognitionGoogle.py`.

#### 6.69.4 Member Data Documentation

##### 6.69.4.1 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.audio\_source

Audio source data format.

e.g "nao\_wav\_1\_ch".

Definition at line 32 of file SpeechRecognitionGoogle.py.

##### 6.69.4.2 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.audiofile

Path to the audio file.

Definition at line 34 of file SpeechRecognitionGoogle.py.

##### 6.69.4.3 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.language

Language to use for recognition.

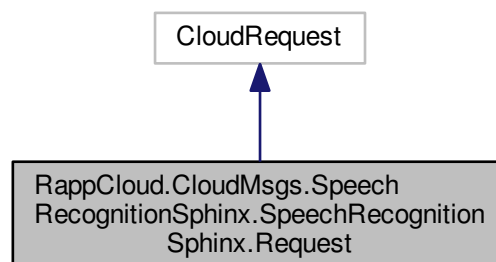
Definition at line 30 of file SpeechRecognitionGoogle.py.

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

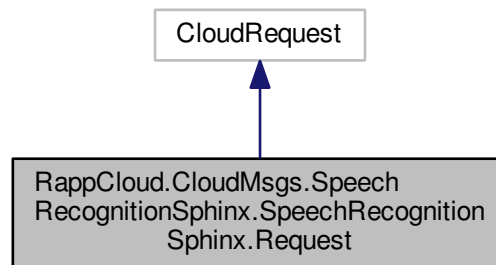
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[SpeechRecognitionGoogle.py](#)

## 6.70 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.-Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

## Public Attributes

- `audio\_source`  
*Audio source data format.*
- `audiofile`  
*Path to the audio file.*
- `grammar`  
*Grammar to use.*
- `language`  
*Language to use for recognition.*
- `sentences`  
*The under consideration sentences.*
- `words`  
*A vector that carries the words to recognize.*

### 6.70.1 Detailed Description

Speech Recognition Sphinx4 Cloud Request object.  
SpeechRecognitionSphinx.Request

Definition at line 14 of file SpeechRecognitionSphinx.py.

### 6.70.2 Constructor & Destructor Documentation

6.70.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.__init__( self, kwargs )`

Constructor.

## Parameters

<b><i>**kwargs</i></b>	<div>- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none"><li>• <a href="#">audio_source</a></li><li>• <a href="#">audiofile</a></li><li>• <a href="#">language</a></li><li>• <a href="#">words</a></li><li>• <a href="#">sentences</a></li><li>• <a href="#">grammar</a></li></ul></div>
------------------------	--

Definition at line 18 of file SpeechRecognitionSphinx.py.

### 6.70.3 Member Function Documentation

#### 6.70.3.1 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 57 of file SpeechRecognitionSphinx.py.

#### 6.70.3.2 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 47 of file SpeechRecognitionSphinx.py.

### 6.70.4 Member Data Documentation

#### 6.70.4.1 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.audio_source`

Audio source data format.

e.g "nao\_wav\_1\_ch".

Definition at line 34 of file SpeechRecognitionSphinx.py.

#### 6.70.4.2 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.audiofile`

Path to the audio file.

Definition at line 42 of file SpeechRecognitionSphinx.py.

#### 6.70.4.3 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.grammar`

Grammar to use.

Definition at line 40 of file SpeechRecognitionSphinx.py.

#### 6.70.4.4 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.language`

Language to use for recognition.

Definition at line 32 of file SpeechRecognitionSphinx.py.

#### 6.70.4.5 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.sentences

The under consideration sentences.

Definition at line 38 of file SpeechRecognitionSphinx.py.

#### 6.70.4.6 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.words

A vector that carries the words to recognize.

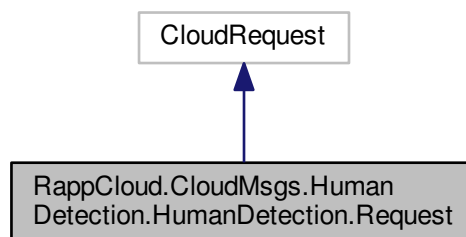
Definition at line 36 of file SpeechRecognitionSphinx.py.

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

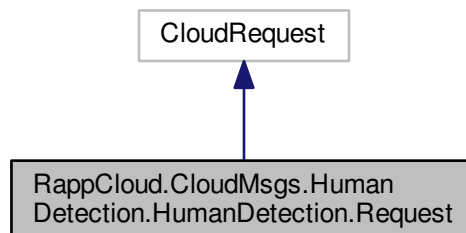
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py](#)

## 6.71 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request:



Collaboration diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request:





## Public Member Functions

- `def __init__`  
*Constructor.*
- `def make_files`
- `def make_payload`

## Public Attributes

- `imageFilepath`  
*File path to the image to load.*

### 6.71.1 Detailed Description

Human Detection Cloud Request object. `HumanDetection.Request`

Definition at line 14 of file `HumanDetection.py`.

### 6.71.2 Constructor & Destructor Documentation

6.71.2.1 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <code>imageFilepath</code></li></ul>
-----------------------	---

Definition at line 16 of file `HumanDetection.py`.

### 6.71.3 Member Function Documentation

6.71.3.1 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 34 of file `HumanDetection.py`.

6.71.3.2 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 29 of file `HumanDetection.py`.

### 6.71.4 Member Data Documentation

6.71.4.1 `RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

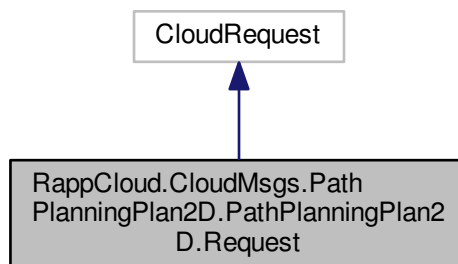
Definition at line 25 of file HumanDetection.py.

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

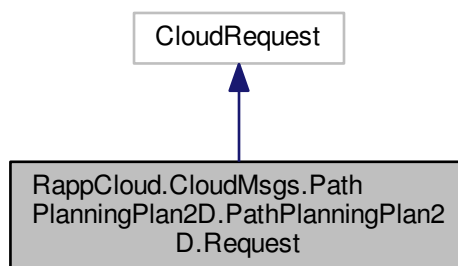
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py](#)

## 6.72 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*
- [def make\\_files](#)
- [def make\\_payload](#)

## Public Attributes

- [algorithm](#)  
*The path planning algorithm to apply.*
- [map\\_name](#)  
*The map name.*
- [pose\\_goal](#)  
*Goal pose of the robot.*
- [pose\\_start](#)  
*Start pose of the robot.*
- [robot\\_type](#)  
*The robot type.*

### 6.72.1 Detailed Description

Path Planning Plan 2D Cloud Request object.

`PathPlanningPlan2D.Request`

Definition at line 18 of file `PathPlanningPlan2D.py`.

### 6.72.2 Constructor & Destructor Documentation

6.72.2.1 `def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">map_name</a></li> <li>• <a href="#">robot_type</a></li> <li>• <a href="#">algorithm</a></li> <li>• <a href="#">pose_start</a></li> <li>• <a href="#">pose_goal</a></li> </ul>
------------------------------	---

Definition at line 23 of file `PathPlanningPlan2D.py`.

### 6.72.3 Member Function Documentation

6.72.3.1 `def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 62 of file `PathPlanningPlan2D.py`.

6.72.3.2 `def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 51 of file `PathPlanningPlan2D.py`.

## 6.72.4 Member Data Documentation

### 6.72.4.1 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.algorithm

The path planning algorithm to apply.

Definition at line 41 of file PathPlanningPlan2D.py.

### 6.72.4.2 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.map\_name

The map name.

Definition at line 36 of file PathPlanningPlan2D.py.

### 6.72.4.3 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.pose\_goal

Goal pose of the robot.

Same structure to ROS-GeometryMsgs/PoseStamped

Definition at line 47 of file PathPlanningPlan2D.py.

### 6.72.4.4 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.pose\_start

Start pose of the robot.

Same structure to ROS-GeometryMsgs/PoseStamped

Definition at line 44 of file PathPlanningPlan2D.py.

### 6.72.4.5 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.robot\_type

The robot type.

It is required to determine it's parameters (footprint etc.)

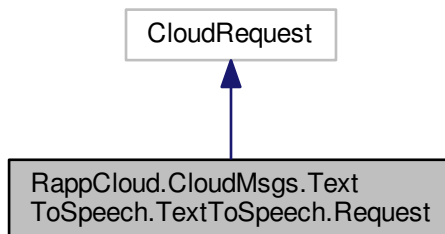
Definition at line 39 of file PathPlanningPlan2D.py.

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

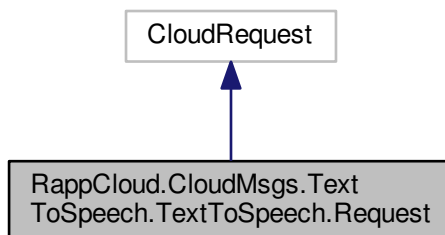
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[PathPlanningPlan2D.py](#)

## 6.73 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request:



Collaboration diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request:



### Public Member Functions

- `def __init__`  
*Constructor.*
- `def make_files`
- `def make_payload`

### Public Attributes

- `language`  
*Language to use for translation.*
- `text`  
*Input text to translate to audio data.*

### 6.73.1 Detailed Description

Text-To-Speech (TTS) Cloud Request object.

`TextToSpeech.Request`

Definition at line 17 of file `TextToSpeech.py`.

### 6.73.2 Constructor & Destructor Documentation

#### 6.73.2.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>text</code></li> <li>• <code>language</code></li> </ul>
------------------------------	---

Definition at line 22 of file `TextToSpeech.py`.

### 6.73.3 Member Function Documentation

#### 6.73.3.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 50 of file `TextToSpeech.py`.

#### 6.73.3.2 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 41 of file `TextToSpeech.py`.

### 6.73.4 Member Data Documentation

#### 6.73.4.1 `RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.language`

Language to use for translation.

Valid values are currently:

- `'el'`
- `'en'`

Definition at line 37 of file `TextToSpeech.py`.

#### 6.73.4.2 `RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.text`

Input text to translate to audio data.

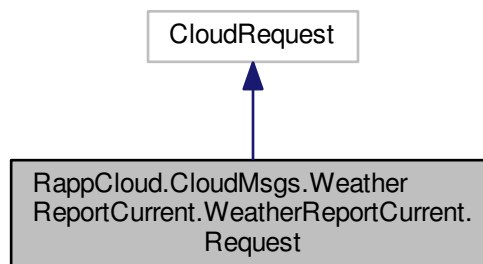
Definition at line 32 of file TextToSpeech.py.

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

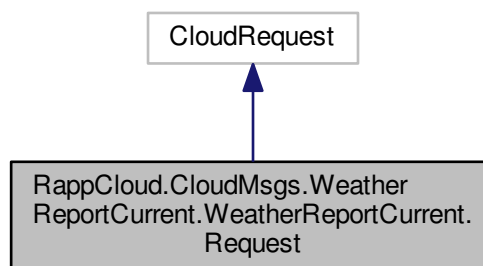
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py](#)

## 6.74 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request:



### Public Member Functions

- [def `\_\_init\_\_`](#)  
*Constructor.*
- [def `make\_files`](#)
- [def `make\_payload`](#)

## Public Attributes

- [city](#)  
*The desired city.*
- [metric](#)  
*The return value units.*
- [weather\\_reporter](#)  
*The weather API to use.*

### 6.74.1 Detailed Description

Weather Report Current Cloud Request object.

WeatherReportCurrent.Request

Definition at line 14 of file WeatherReportCurrent.py.

### 6.74.2 Constructor & Destructor Documentation

6.74.2.1 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b>**kwargs</b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">city</a></li> <li>• <a href="#">weather_reporter</a></li> <li>• <a href="#">metric</a></li> </ul>
-----------------	---

Definition at line 19 of file WeatherReportCurrent.py.

### 6.74.3 Member Function Documentation

6.74.3.1 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 47 of file WeatherReportCurrent.py.

6.74.3.2 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 38 of file WeatherReportCurrent.py.

### 6.74.4 Member Data Documentation

6.74.4.1 `RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.city`

The desired city.

Definition at line 30 of file WeatherReportCurrent.py.



## 6.74.4.2 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.metric

The return value units.

Definition at line 34 of file WeatherReportCurrent.py.

## 6.74.4.3 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.weather\_reporter

The weather API to use.

Defaults to "yweather" .

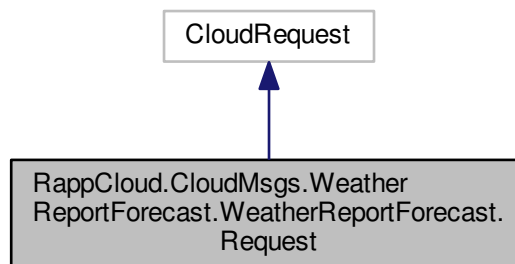
Definition at line 32 of file WeatherReportCurrent.py.

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

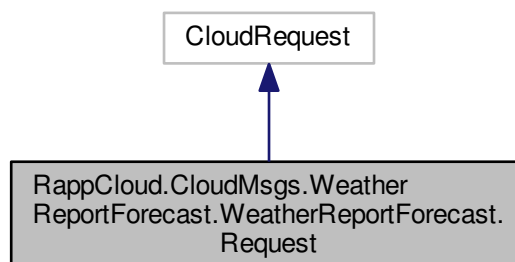
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportCurrent.py](#)

## 6.75 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request:



## Public Member Functions

- `def __init__`  
*Constructor.*
- `def make_files`
- `def make_payload`

## Public Attributes

- `city`  
*The desired city.*
- `metric`  
*The return value units.*
- `weather_reporter`  
*The weather API to use.*

### 6.75.1 Detailed Description

Weather Report Forecast Cloud Request object.

`WeatherReportForecast.Request`

Definition at line 14 of file `WeatherReportForecast.py`.

### 6.75.2 Constructor & Destructor Documentation

6.75.2.1 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>city</code></li> <li>• <code>weather_reporter</code></li> <li>• <code>metric</code></li> </ul>
------------------------------	--

Definition at line 19 of file `WeatherReportForecast.py`.

### 6.75.3 Member Function Documentation

6.75.3.1 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 47 of file `WeatherReportForecast.py`.

6.75.3.2 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 38 of file `WeatherReportForecast.py`.

## 6.75.4 Member Data Documentation

### 6.75.4.1 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.city

The desired city.

Definition at line 30 of file WeatherReportForecast.py.

### 6.75.4.2 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.metric

The return value units.

Definition at line 34 of file WeatherReportForecast.py.

### 6.75.4.3 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.weather\_reporter

The weather API to use.

Defaults to "yweather" .

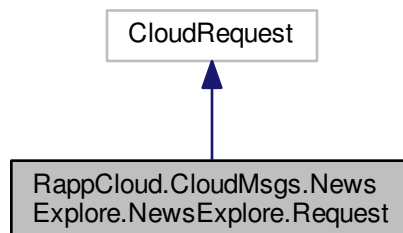
Definition at line 32 of file WeatherReportForecast.py.

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

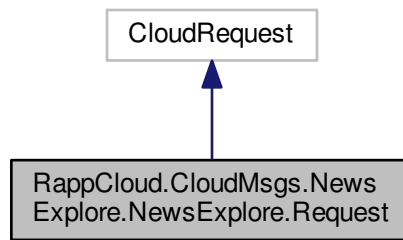
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportForecast.py](#)

## 6.76 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request:



Collaboration diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request:



### Public Member Functions

- `def __init__`  
*Constructor.*
- `def make_files`
- `def make_payload`

### Public Attributes

- `exclude_titles`  
*Reject list of previously read articles, in order to avoid duplicates.*
- `keywords`  
*Desired keywords.*
- `news_engine`  
*The news search engine to use.*
- `num_news`  
*Number of news stories.*
- `region`  
*Language/Region.*
- `topic`  
*Main topics, i.e.*

#### 6.76.1 Detailed Description

News Explore Cloud Request object.

NewsExplore.Request

Definition at line 14 of file NewsExplore.py.

#### 6.76.2 Constructor & Destructor Documentation

6.76.2.1 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.__init__( self, kwargs )`

Constructor.

## Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">news_engine</a></li> <li>• <a href="#">keywords</a></li> <li>• <a href="#">exclude_titles</a></li> <li>• <a href="#">region</a></li> <li>• <a href="#">topic</a></li> <li>• <a href="#">num_news</a></li> </ul>
------------------------------	---

Definition at line 19 of file NewsExplore.py.

### 6.76.3 Member Function Documentation

#### 6.76.3.1 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 59 of file NewsExplore.py.

#### 6.76.3.2 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 48 of file NewsExplore.py.

### 6.76.4 Member Data Documentation

#### 6.76.4.1 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.exclude_titles`

Reject list of previously read articles, in order to avoid duplicates.

Definition at line 37 of file NewsExplore.py.

#### 6.76.4.2 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.keywords`

Desired keywords.

Definition at line 35 of file NewsExplore.py.

#### 6.76.4.3 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.news_engine`

The news search engine to use.

Definition at line 33 of file NewsExplore.py.

#### 6.76.4.4 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.num_news`

Number of news stories.

Definition at line 43 of file NewsExplore.py.

#### 6.76.4.5 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.region

Language/Region.

Definition at line 39 of file NewsExplore.py.

#### 6.76.4.6 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.topic

Main topics, i.e.

sports, politics, etc.

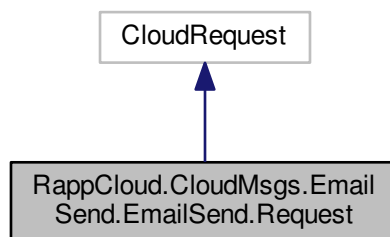
Definition at line 41 of file NewsExplore.py.

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

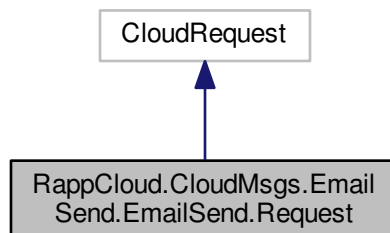
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py](#)

## 6.77 RappCloud.CloudMsgs.EmailSend.EmailSend.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailSend.EmailSend.Request:



Collaboration diagram for RappCloud.CloudMsgs.EmailSend.EmailSend.Request:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

## Public Attributes

- `attach\_file`  
*Attachment file path.*
- `body`  
*The email body.*
- `email`  
*The user's email username.*
- `password`  
*The user's email password.*
- `port`  
*The email server imap port.*
- `recipients`  
*Email addresses of the recipients.*
- `server`  
*The email server's smtp address, i.e.*
- `subject`  
*The email subject.*

### 6.77.1 Detailed Description

Email Send Cloud Request object.

EmailSend.Request

Definition at line 14 of file EmailSend.py.

### 6.77.2 Constructor & Destructor Documentation

#### 6.77.2.1 `def RappCloud.CloudMsgs.EmailSend.EmailSend.Request.__init__( self, kwargs )`

Constructor.

**Parameters**

<b><i>**kwargs</i></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">email</a></li> <li>• <a href="#">password</a></li> <li>• <a href="#">server</a></li> <li>• <a href="#">port</a></li> <li>• <a href="#">recipients</a></li> <li>• <a href="#">body</a></li> <li>• <a href="#">subject</a></li> <li>• <a href="#">attach_file</a></li> </ul>
------------------------	--

Definition at line 19 of file EmailSend.py.

**6.77.3 Member Function Documentation****6.77.3.1 `def RappCloud.CloudMsgs.EmailSend.EmailSend.Request.make_files ( self )`**

Create and return Array of File objects of the Request.

Definition at line 67 of file EmailSend.py.

**6.77.3.2 `def RappCloud.CloudMsgs.EmailSend.EmailSend.Request.make_payload ( self )`**

Create and return the Payload of the Request.

Definition at line 54 of file EmailSend.py.

**6.77.4 Member Data Documentation****6.77.4.1 `RappCloud.CloudMsgs.EmailSend.EmailSend.Request.attach_file`**

Attachment file path.

Can be a .zip file that will be decompressed on the server.

Definition at line 49 of file EmailSend.py.

**6.77.4.2 `RappCloud.CloudMsgs.EmailSend.EmailSend.Request.body`**

The email body.

Definition at line 45 of file EmailSend.py.

**6.77.4.3 `RappCloud.CloudMsgs.EmailSend.EmailSend.Request.email`**

The user's email username.

Definition at line 35 of file EmailSend.py.



#### 6.77.4.4 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.password

The user's email password.

Definition at line 37 of file EmailSend.py.

#### 6.77.4.5 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.port

The email server imap port.

Leave empty to use default value.

Definition at line 41 of file EmailSend.py.

#### 6.77.4.6 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.recipients

Email addresses of the recipients.

Definition at line 43 of file EmailSend.py.

#### 6.77.4.7 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.server

The email server's smtp address, i.e.

'smtp.gmail.com'

Definition at line 39 of file EmailSend.py.

#### 6.77.4.8 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.subject

The email subject.

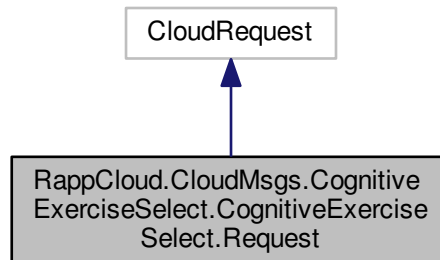
Definition at line 47 of file EmailSend.py.

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

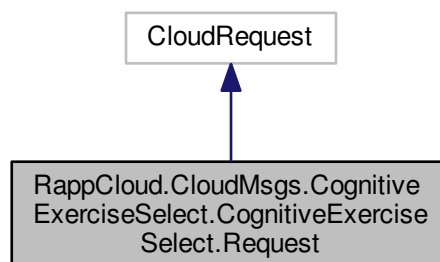
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[EmailSend.py](#)

## 6.78 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

### Public Attributes

- `test\_diff`  
*Force select from this difficulty.*
- `test\_index`  
*Force select this index.*
- `test\_subtype`

*Force select from this subtype.*

- [test\\_type](#)

*Cognitive Exercise test type.*

### 6.78.1 Detailed Description

Cognitive Exercise Select Cloud Request object.

`CognitiveExerciseSelect.Request`

Definition at line 18 of file `CognitiveExerciseSelect.py`.

### 6.78.2 Constructor & Destructor Documentation

6.78.2.1 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <a href="#">test_type</a></li><li>• <a href="#">test_subtype</a></li><li>• <a href="#">test_diff</a></li><li>• <a href="#">test_index</a></li></ul>
------------------------------	--

Definition at line 23 of file `CognitiveExerciseSelect.py`.

### 6.78.3 Member Function Documentation

6.78.3.1 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 62 of file `CognitiveExerciseSelect.py`.

6.78.3.2 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 53 of file `CognitiveExerciseSelect.py`.

### 6.78.4 Member Data Documentation

6.78.4.1 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.test_diff`

Force select from this difficulty.

Defaults to empty string ""

Definition at line 46 of file `CognitiveExerciseSelect.py`.

#### 6.78.4.2 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.test_index`

Force select this index.

Defaults to empty string "".

Definition at line 48 of file `CognitiveExerciseSelect.py`.

#### 6.78.4.3 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.test_subtype`

Force select from this subtype.

Defaults to empty string ""

Definition at line 44 of file `CognitiveExerciseSelect.py`.

#### 6.78.4.4 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.test_type`

Cognitive Exercise test type.

Can be one of:

- 'ArithmeticCts'
- 'AwarenessCts'
- 'ReasoningCts'
- ""

If left empty, selection will be performed based on user's past performance records.

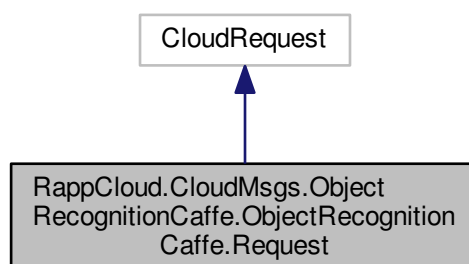
Definition at line 42 of file `CognitiveExerciseSelect.py`.

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

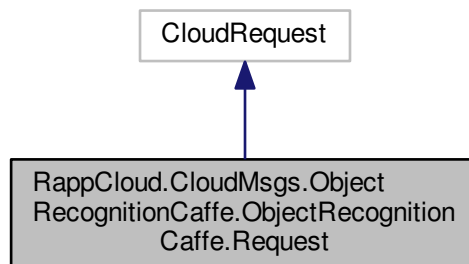
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py](#)

## 6.79 `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request` Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request`:



Collaboration diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

## Public Attributes

- `imageFilepath`  
*File path to the image to load.*

### 6.79.1 Detailed Description

Object Recognition (Caffe) Cloud Request object.

`ObjectRecognitionCaffe.Request`

Definition at line 14 of file `ObjectRecognitionCaffe.py`.

### 6.79.2 Constructor & Destructor Documentation

6.79.2.1 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • <code><a href="#">imageFilepath</a></code>
-----------------------	--

Definition at line 19 of file `ObjectRecognitionCaffe.py`.

### 6.79.3 Member Function Documentation

#### 6.79.3.1 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 37 of file ObjectRecognitionCaffe.py.

#### 6.79.3.2 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 32 of file ObjectRecognitionCaffe.py.

### 6.79.4 Member Data Documentation

#### 6.79.4.1 `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

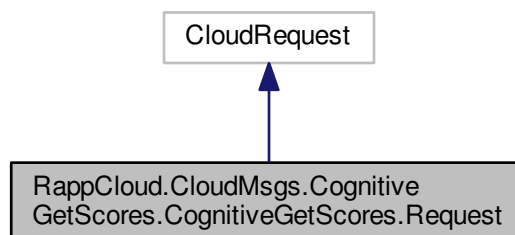
Definition at line 28 of file ObjectRecognitionCaffe.py.

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

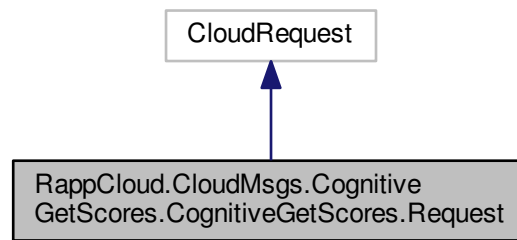
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py`

## 6.80 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request` Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request`:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request:



## Public Member Functions

- `def __init__`  
*Constructor.*
- `def make_files`
- `def make_payload`

## Public Attributes

- `test_type`  
*Cognitive Exercise test type.*
- `time_to`  
*Unix timestamp.*

### 6.80.1 Detailed Description

Cognitive Get Scores Cloud Request object.

`CognitiveGetScores.Request`

Definition at line 14 of file `CognitiveGetScores.py`.

### 6.80.2 Constructor & Destructor Documentation

6.80.2.1 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>test_type</code></li> <li>• <code>time_to</code></li> </ul>
------------------------------	---

Definition at line 19 of file `CognitiveGetScores.py`.

### 6.80.3 Member Function Documentation

#### 6.80.3.1 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 48 of file CognitiveGetScores.py.

#### 6.80.3.2 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 41 of file CognitiveGetScores.py.

### 6.80.4 Member Data Documentation

#### 6.80.4.1 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.test_type`

Cognitive Exercise test type.

Can be one of:

- 'ArithmeticCts'
- 'AwarenessCts'
- 'ReasoningCts'
- ''

If left empty, history of all test types will be returned.

Definition at line 35 of file CognitiveGetScores.py.

#### 6.80.4.2 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.time_to`

Unix timestamp.

Retrieve scores up to this timestamp value.

Definition at line 37 of file CognitiveGetScores.py.

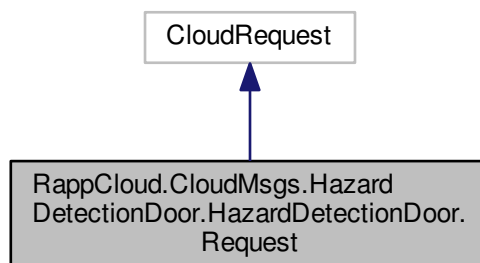
The documentation for this class was generated from the following file:

- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py](#)

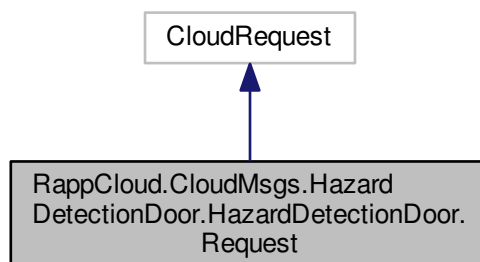


## 6.81 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*
- [def make\\_files](#)
- [def make\\_payload](#)

### Public Attributes

- [imageFilepath](#)  
*File path to the image to load.*

### 6.81.1 Detailed Description

Hazard Detection Door Check Cloud Request object.

`HazardDetectionDoor.Request`

Definition at line 14 of file `HazardDetectionDoor.py`.

### 6.81.2 Constructor & Destructor Documentation

6.81.2.1 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes.  • <a href="#">imageFilepath</a>
------------------------------	---

Definition at line 19 of file `HazardDetectionDoor.py`.

### 6.81.3 Member Function Documentation

6.81.3.1 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 37 of file `HazardDetectionDoor.py`.

6.81.3.2 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 32 of file `HazardDetectionDoor.py`.

### 6.81.4 Member Data Documentation

6.81.4.1 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

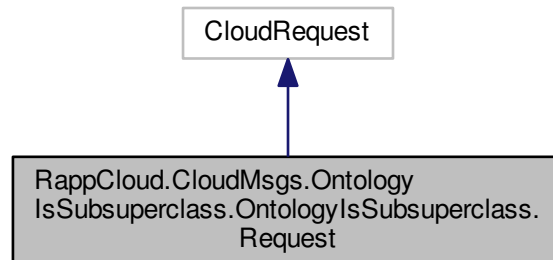
Definition at line 28 of file `HazardDetectionDoor.py`.

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

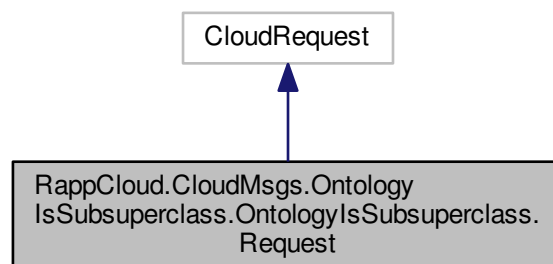
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py`

## 6.82 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request:



Collaboration diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

### Public Attributes

- `child\_class`  
*The ontology child class name.*
- `parent\_class`  
*The ontology parent class name.*
- `recursive`

*Recursive ontology database search.*

### 6.82.1 Detailed Description

Ontology Is Sub-Superclass Of Cloud Request object.

OntologyIsSubsuperclass.Request

Definition at line 14 of file OntologyIsSubsuperclass.py.

### 6.82.2 Constructor & Destructor Documentation

6.82.2.1 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>parent_class</code></li> <li>• <code>child_class</code></li> <li>• <code>recursive</code></li> </ul>
------------------------------	--

Definition at line 19 of file OntologyIsSubsuperclass.py.

### 6.82.3 Member Function Documentation

6.82.3.1 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 48 of file OntologyIsSubsuperclass.py.

6.82.3.2 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 40 of file OntologyIsSubsuperclass.py.

### 6.82.4 Member Data Documentation

6.82.4.1 `RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.child_class`

The ontology child class name.

e.g. 'Microwave'

Definition at line 34 of file OntologyIsSubsuperclass.py.

6.82.4.2 `RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.parent_class`

The ontology parent class name.

e.g. 'Oven'

Definition at line 31 of file OntologyIsSubsuperclass.py.

#### 6.82.4.3 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.recursive

Recursive ontology database search.

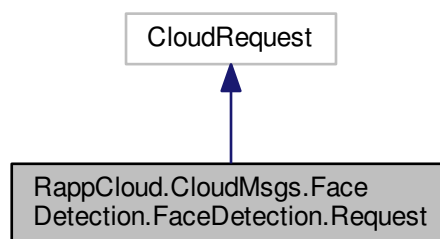
Definition at line 36 of file OntologyIsSubsuperclass.py.

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

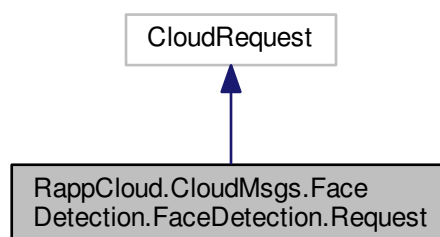
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[OntologyIsSubsuperclass.py](#)

## 6.83 RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request:



Collaboration diagram for RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*

- def [make\\_files](#)
- def [make\\_payload](#)

## Public Attributes

- [fast](#)  
*If true, detection will take less time but it will be less accurate.*
- [imageFilepath](#)  
*File path to the image to load.*

### 6.83.1 Detailed Description

Face Detection Cloud Request object. `FaceDetection.Request`

Definition at line 14 of file `FaceDetection.py`.

### 6.83.2 Constructor & Destructor Documentation

6.83.2.1 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">imageFilepath</a></li> <li>• <a href="#">fast</a></li> </ul>
------------------------------	--

Definition at line 16 of file `FaceDetection.py`.

### 6.83.3 Member Function Documentation

6.83.3.1 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 39 of file `FaceDetection.py`.

6.83.3.2 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 35 of file `FaceDetection.py`.

### 6.83.4 Member Data Documentation

6.83.4.1 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.fast`

If true, detection will take less time but it will be less accurate.

Definition at line 30 of file `FaceDetection.py`.

## 6.83.4.2 RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.imageFilepath

File path to the image to load.

This is the image to perform face-detection on.

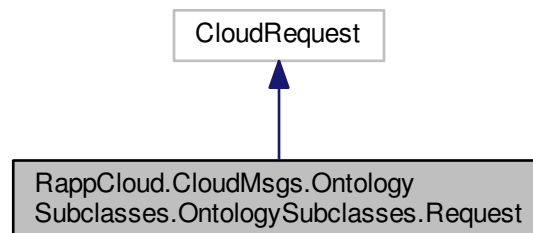
Definition at line 27 of file FaceDetection.py.

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

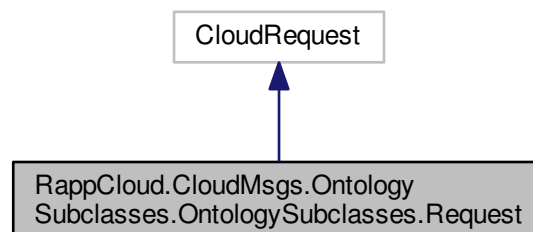
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[FaceDetection.py](#)

## 6.84 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request:



Collaboration diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*
- def [make\\_files](#)
- def [make\\_payload](#)

## Public Attributes

- [ontology\\_class](#)  
*The Ontology class.*
- [recursive](#)  
*Recursive search.*

### 6.84.1 Detailed Description

Ontology Subclasses Of Cloud Request object.

OntologySubclasses.Request

Definition at line 14 of file OntologySubclasses.py.

### 6.84.2 Constructor & Destructor Documentation

6.84.2.1 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes.  • query
------------------------------	---

Definition at line 19 of file OntologySubclasses.py.

### 6.84.3 Member Function Documentation

6.84.3.1 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 41 of file OntologySubclasses.py.

6.84.3.2 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 34 of file OntologySubclasses.py.

### 6.84.4 Member Data Documentation

6.84.4.1 `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.ontology_class`

The Ontology class.

e.g. 'Oven'

Definition at line 28 of file OntologySubclasses.py.



## 6.84.4.2 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.recursive

Recursive search.

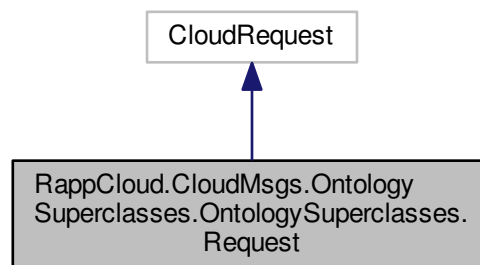
Definition at line 30 of file OntologySubclasses.py.

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

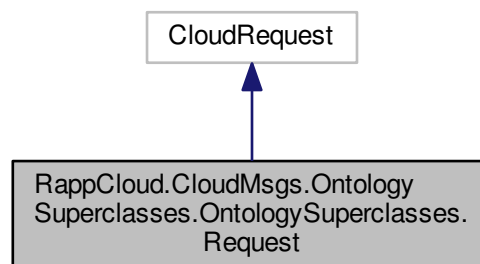
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py](#)

## 6.85 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request:



Collaboration diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request:



### Public Member Functions

- [def `\_\_init\_\_`](#)  
*Constructor.*
- [def `make\_files`](#)

- def `make_payload`

## Public Attributes

- `ontology_class`  
*The Ontology class.*
- `recursive`  
*Recursive search.*

### 6.85.1 Detailed Description

Ontology Superclasses Of Cloud Request object.

OntologySuperclasses.Request

Definition at line 14 of file OntologySuperclasses.py.

### 6.85.2 Constructor & Destructor Documentation

6.85.2.1 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes.  • query
-----------------------	---

Definition at line 19 of file OntologySuperclasses.py.

### 6.85.3 Member Function Documentation

6.85.3.1 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 41 of file OntologySuperclasses.py.

6.85.3.2 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 34 of file OntologySuperclasses.py.

### 6.85.4 Member Data Documentation

6.85.4.1 `RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.ontology_class`

The Ontology class.

e.g. 'Oven'

Definition at line 28 of file OntologySuperclasses.py.

## 6.85.4.2 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.recursive

Recursive search.

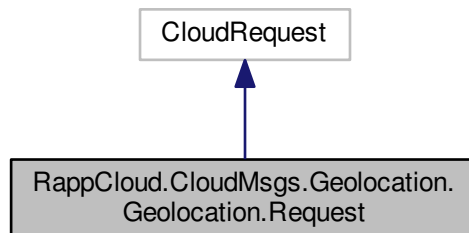
Definition at line 30 of file `OntologySuperclasses.py`.

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

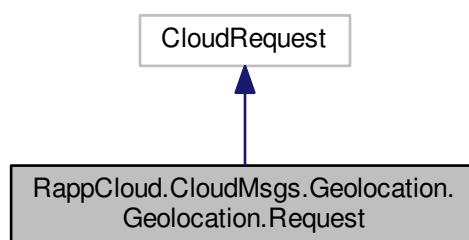
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py`

## 6.86 RappCloud.CloudMsgs.Geolocation.Geolocation.Request Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.Geolocation.Geolocation.Request`:



Collaboration diagram for `RappCloud.CloudMsgs.Geolocation.Geolocation.Request`:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

## Public Attributes

- [engine](#)  
*Engine to use.*
- [ipaddr](#)  
*The machine's ipv4 address.*

### 6.86.1 Detailed Description

Geolocation Cloud Request object.

Geolocation.Request

Definition at line 14 of file Geolocation.py.

### 6.86.2 Constructor & Destructor Documentation

6.86.2.1 `def RappCloud.CloudMsgs.Geolocation.Geolocation.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b>**kwargs</b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">ipaddr</a></li> <li>• <a href="#">engine</a></li> </ul>
-----------------	---

Definition at line 19 of file Geolocation.py.

### 6.86.3 Member Function Documentation

6.86.3.1 `def RappCloud.CloudMsgs.Geolocation.Geolocation.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 42 of file Geolocation.py.

6.86.3.2 `def RappCloud.CloudMsgs.Geolocation.Geolocation.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 35 of file Geolocation.py.

### 6.86.4 Member Data Documentation

6.86.4.1 `RappCloud.CloudMsgs.Geolocation.Geolocation.Request.engine`

Engine to use.

Defaults to 'ip-api' (Currently the only supported).

Definition at line 31 of file Geolocation.py.

## 6.86.4.2 RappCloud.CloudMsgs.Geolocation.Geolocation.Request.ipaddr

The machine's ipv4 address.

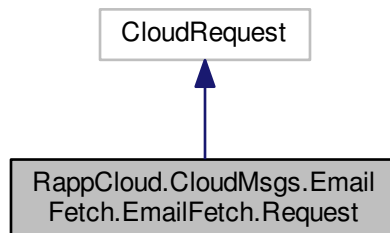
Definition at line 29 of file Geolocation.py.

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

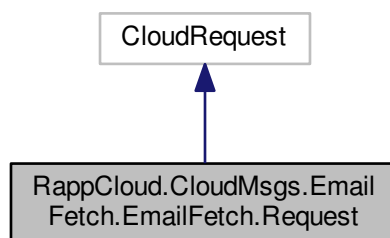
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[Geolocation.py](#)

## 6.87 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request:



Collaboration diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*
- def [make\\_files](#)
- def [make\\_payload](#)

## Public Attributes

- [date\\_from](#)  
*Emails since date.*
- [date\\_to](#)  
*Emails until date.*
- [email](#)  
*User's email username.*
- [email\\_status](#)  
*Define which mails the users requests.*
- [num\\_emails](#)  
*Number of requested emails.*
- [password](#)  
*User's email password.*
- [port](#)  
*The email server imap port.*
- [server](#)  
*The email server's imap address, i.e.*

### 6.87.1 Detailed Description

Email Fetch Cloud Request object.

EmailFetch.Request

Definition at line 14 of file EmailFetch.py.

### 6.87.2 Constructor & Destructor Documentation

6.87.2.1 `def RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">email</a></li> <li>• <a href="#">password</a></li> <li>• <a href="#">server</a></li> <li>• <a href="#">port</a></li> <li>• <a href="#">date_from</a></li> <li>• <a href="#">date_to</a></li> <li>• <a href="#">email_status</a></li> <li>• <a href="#">num_emails</a></li> </ul>
------------------------------	--

Definition at line 19 of file EmailFetch.py.

### 6.87.3 Member Function Documentation

#### 6.87.3.1 `def RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 67 of file EmailFetch.py.

#### 6.87.3.2 `def RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 54 of file EmailFetch.py.

### 6.87.4 Member Data Documentation

#### 6.87.4.1 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.date_from`

Emails since date.

Unix timestamp.

Definition at line 43 of file EmailFetch.py.

#### 6.87.4.2 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.date_to`

Emails until date.

Unix timestamp.

Definition at line 45 of file EmailFetch.py.

#### 6.87.4.3 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.email`

User's email username.

Definition at line 35 of file EmailFetch.py.

#### 6.87.4.4 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.email_status`

Define which mails the users requests.

Values: ALL, UNSEEN(DEFAULT)

Definition at line 47 of file EmailFetch.py.

#### 6.87.4.5 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.num_emails`

Number of requested emails.

Definition at line 49 of file EmailFetch.py.

#### 6.87.4.6 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.password`

User's email password.

Definition at line 37 of file EmailFetch.py.

#### 6.87.4.7 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.port

The email server imap port.

leave empty to use default value.

Definition at line 41 of file EmailFetch.py.

#### 6.87.4.8 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.server

The email server's imap address, i.e.

'imap.gmail.com'.

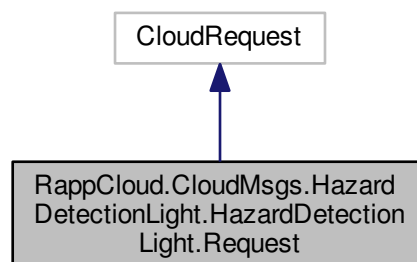
Definition at line 39 of file EmailFetch.py.

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

- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[EmailFetch.py](#)

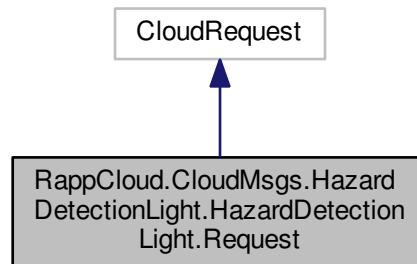
## 6.88 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request:





Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

## Public Attributes

- `imageFilepath`  
*File path to the image to load.*

### 6.88.1 Detailed Description

Hazard Detection Light Check Cloud Request object.

`HazardDetectionLight.Request`

Definition at line 14 of file `HazardDetectionLight.py`.

### 6.88.2 Constructor & Destructor Documentation

6.88.2.1 `def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code><a href="#">imageFilepath</a></code></li> </ul>
-----------------------	---

Definition at line 19 of file `HazardDetectionLight.py`.

### 6.88.3 Member Function Documentation

#### 6.88.3.1 `def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 37 of file HazardDetectionLight.py.

#### 6.88.3.2 `def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 32 of file HazardDetectionLight.py.

### 6.88.4 Member Data Documentation

#### 6.88.4.1 `RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

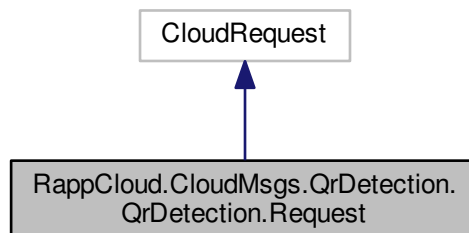
Definition at line 28 of file HazardDetectionLight.py.

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

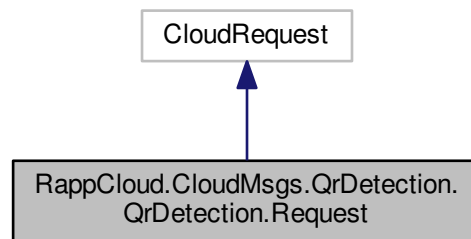
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py](#)

## 6.89 RappCloud.CloudMsgs.QrDetection.QrDetection.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.QrDetection.QrDetection.Request:



Collaboration diagram for RappCloud.CloudMsgs.QrDetection.QrDetection.Request:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

## Public Attributes

- `imageFilepath`  
*File path to the image to load.*

### 6.89.1 Detailed Description

`Qr Detection Cloud Request object. QrDetection.Request`

Definition at line 14 of file `QrDetection.py`.

### 6.89.2 Constructor & Destructor Documentation

6.89.2.1 `def RappCloud.CloudMsgs.QrDetection.QrDetection.Request.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes.  • <code><a href="#">imageFilepath</a></code>
-----------------------	--

Definition at line 16 of file `QrDetection.py`.

### 6.89.3 Member Function Documentation

6.89.3.1 `def RappCloud.CloudMsgs.QrDetection.QrDetection.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 33 of file QrDetection.py.

**6.89.3.2** `def RappCloud.CloudMsgs.QrDetection.QrDetection.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 29 of file QrDetection.py.

## 6.89.4 Member Data Documentation

**6.89.4.1** `RappCloud.CloudMsgs.QrDetection.QrDetection.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

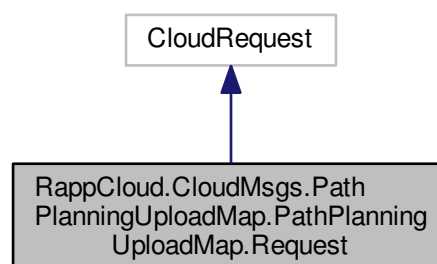
Definition at line 25 of file QrDetection.py.

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

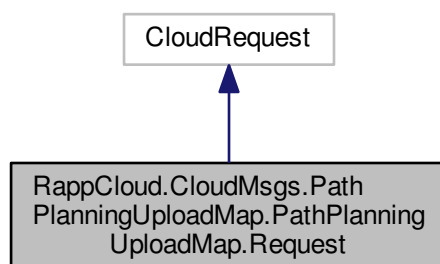
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py`

## 6.90 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

## Public Attributes

- `map\_name`  
*The map name.*
- `png\_file`  
*Path to the map image png file.*
- `yaml\_file`  
*Path to the map description yaml file.*

### 6.90.1 Detailed Description

Path Planning Upload Map Cloud Request object.

`PathPlanningUploadMap.Request`

Definition at line 14 of file `PathPlanningUploadMap.py`.

### 6.90.2 Constructor & Destructor Documentation

6.90.2.1 `def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.__init__( self, kwargs )`

Constructor.

Parameters

---

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">map_name</a></li> <li>• <a href="#">png_file</a></li> <li>• <a href="#">yaml_file</a></li> </ul>
------------------------------	--

Definition at line 19 of file PathPlanningUploadMap.py.

### 6.90.3 Member Function Documentation

#### 6.90.3.1 `def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.make_files ( self )`

Create and return Array of File objects of the Request.

Definition at line 43 of file PathPlanningUploadMap.py.

#### 6.90.3.2 `def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.make_payload ( self )`

Create and return the Payload of the Request.

Definition at line 38 of file PathPlanningUploadMap.py.

### 6.90.4 Member Data Documentation

#### 6.90.4.1 `RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.map_name`

The map name.

Definition at line 30 of file PathPlanningUploadMap.py.

#### 6.90.4.2 `RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.png_file`

Path to the map image png file.

Definition at line 32 of file PathPlanningUploadMap.py.

#### 6.90.4.3 `RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.yaml_file`

Path to the map description yaml file.

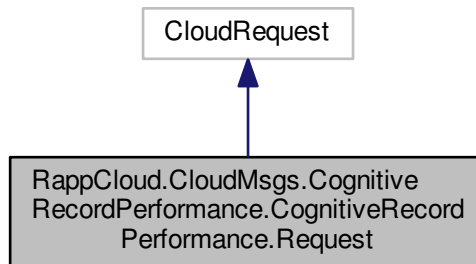
Definition at line 34 of file PathPlanningUploadMap.py.

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

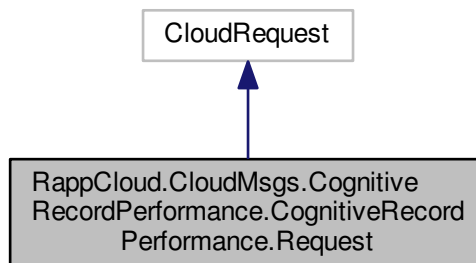
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py](#)

## 6.91 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Request:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Request:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

### Public Attributes

- `score`  
*Performance score to record.*
- `test\_instance`  
*Cognitive Exercise test instance.*

### 6.91.1 Detailed Description

Cognitive Record Performance Cloud Request object.

`CognitiveRecordPerformance.Request`

Definition at line 14 of file `CognitiveRecordPerformance.py`.

### 6.91.2 Constructor & Destructor Documentation

**6.91.2.1** `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">test_instance</a></li> <li>• <a href="#">score</a></li> </ul>
------------------------------	---

Definition at line 19 of file `CognitiveRecordPerformance.py`.

### 6.91.3 Member Function Documentation

**6.91.3.1** `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 43 of file `CognitiveRecordPerformance.py`.

**6.91.3.2** `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 36 of file `CognitiveRecordPerformance.py`.

### 6.91.4 Member Data Documentation

**6.91.4.1** `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.score`

Performance score to record.

Definition at line 32 of file `CognitiveRecordPerformance.py`.

**6.91.4.2** `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.test_instance`

Cognitive Exercise test instance.

The full cognitive test entry name as obtained from [CognitiveExerciseSelect](#)

Definition at line 30 of file `CognitiveRecordPerformance.py`.

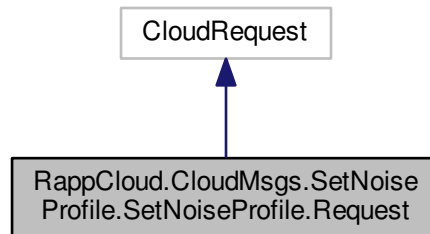
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py`

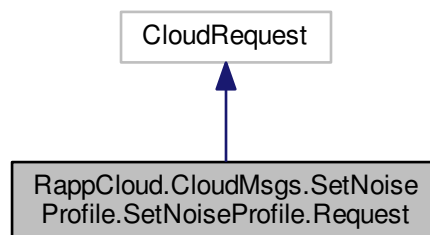


## 6.92 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request:



Collaboration diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def make\_files`
- `def make\_payload`

### Public Attributes

- `audio\_source`  
*Audio source data format.*
- `audiofile`  
*Path to the audio file.*

### 6.92.1 Detailed Description

Set Noise Profile Cloud Request object.

`SetNoiseProfile.Request`

Definition at line 14 of file `SetNoiseProfile.py`.

### 6.92.2 Constructor & Destructor Documentation

#### 6.92.2.1 `def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">audio_source</a></li> <li>• <a href="#">audiofile</a></li> </ul>
------------------------------	--

Definition at line 19 of file `SetNoiseProfile.py`.

### 6.92.3 Member Function Documentation

#### 6.92.3.1 `def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.make_files( self )`

Create and return Array of File objects of the Request.

Definition at line 41 of file `SetNoiseProfile.py`.

#### 6.92.3.2 `def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.make_payload( self )`

Create and return the Payload of the Request.

Definition at line 36 of file `SetNoiseProfile.py`.

### 6.92.4 Member Data Documentation

#### 6.92.4.1 `RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.audio_source`

Audio source data format.

e.g "nao\_wav\_1\_ch".

Definition at line 29 of file `SetNoiseProfile.py`.

#### 6.92.4.2 `RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.audiofile`

Path to the audio file.

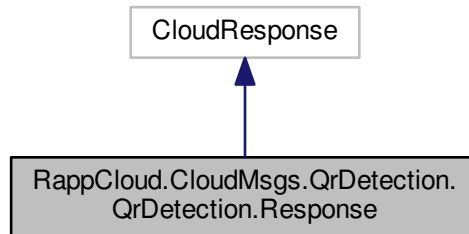
Definition at line 31 of file `SetNoiseProfile.py`.

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

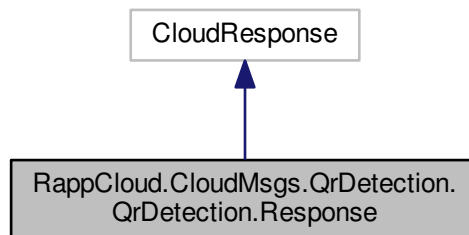
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py](#)

## 6.93 RappCloud.CloudMsgs.QrDetection.QrDetection.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.QrDetection.QrDetection.Response:



Collaboration diagram for RappCloud.CloudMsgs.QrDetection.QrDetection.Response:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [error](#)  
*Error message.*
- [qr\\_centers](#)  
*Found qr centers.*
- [qr\\_messages](#)  
*Found qr messages.*

### 6.93.1 Detailed Description

`Qr Detection Cloud Response object. QrDetection.Response`

Definition at line 38 of file `QrDetection.py`.

### 6.93.2 Constructor & Destructor Documentation

6.93.2.1 `def RappCloud.CloudMsgs.QrDetection.QrDetection.Response.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>error</code></li> <li>• <code>qr_centers</code></li> <li>• <code>qr_messages</code></li> </ul>
-----------------------	--

Definition at line 40 of file `QrDetection.py`.

### 6.93.3 Member Data Documentation

6.93.3.1 `RappCloud.CloudMsgs.QrDetection.QrDetection.Response.error`

Error message.

Definition at line 51 of file `QrDetection.py`.

6.93.3.2 `RappCloud.CloudMsgs.QrDetection.QrDetection.Response.qr_centers`

Found qr centers.

Array of `qr_center` objects. TODO Create `qr_center` objects

Definition at line 54 of file `QrDetection.py`.

6.93.3.3 `RappCloud.CloudMsgs.QrDetection.QrDetection.Response.qr_messages`

Found qr messages.

Array of strings.

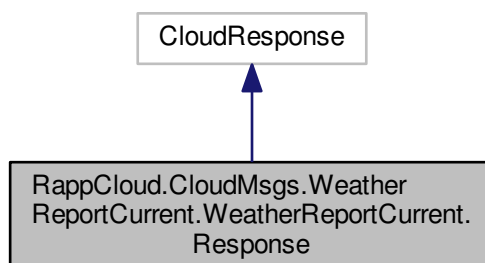
Definition at line 56 of file `QrDetection.py`.

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

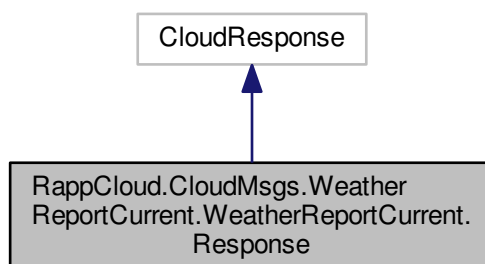
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py`

## 6.94 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

### Public Attributes

- `date`  
*Current date.*
- `error`  
*Error message.*
- `humidity`  
*Current humidity.*

- [pressure](#)

*Current pressure.*

- [temperature](#)

*Current temperature.*

- [visibility](#)

*Current vilibility.*

- [weather\\_description](#)

*A brief description of the current weather.*

- [wind\\_direction](#)

*Current wind direction.*

- [wind\\_speed](#)

*Current speed of the wind.*

- [wind\\_temperature](#)

*Current temperature of the wind.*

### 6.94.1 Detailed Description

Weather Report Current Cloud Response object.

WeatherReportCurrent.Response

Definition at line 52 of file WeatherReportCurrent.py.

### 6.94.2 Constructor & Destructor Documentation

6.94.2.1 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b>**kwargs</b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">error</a></li> <li>• <a href="#">date</a></li> <li>• <a href="#">temperature</a></li> <li>• <a href="#">weather_description</a></li> <li>• <a href="#">humidity</a></li> <li>• <a href="#">visibility</a></li> <li>• <a href="#">pressure</a></li> <li>• <a href="#">wind_speed</a></li> <li>• <a href="#">wind_temperature</a></li> <li>• <a href="#">wind_direction</a></li> </ul>
-----------------	--

Definition at line 57 of file WeatherReportCurrent.py.

### **6.94.3 Member Data Documentation**

#### **6.94.3.1 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.date**

Current date.

Definition at line 77 of file WeatherReportCurrent.py.

#### **6.94.3.2 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.error**

Error message.

Definition at line 75 of file WeatherReportCurrent.py.

#### **6.94.3.3 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.humidity**

Current humidity.

Definition at line 83 of file WeatherReportCurrent.py.

#### **6.94.3.4 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.pressure**

Current pressure.

Definition at line 87 of file WeatherReportCurrent.py.

#### **6.94.3.5 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.temperature**

Current temperature.

Definition at line 79 of file WeatherReportCurrent.py.

#### **6.94.3.6 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.visibility**

Current vilibility.

Definition at line 85 of file WeatherReportCurrent.py.

#### **6.94.3.7 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.weather\_description**

A brief description of the current weather.

Definition at line 81 of file WeatherReportCurrent.py.

#### **6.94.3.8 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.wind\_direction**

Current wind direction.

Definition at line 93 of file WeatherReportCurrent.py.

#### **6.94.3.9 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.wind\_speed**

Current speed of the wind.

Definition at line 89 of file WeatherReportCurrent.py.

#### 6.94.3.10 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.wind\_temperature

Current temperature of the wind.

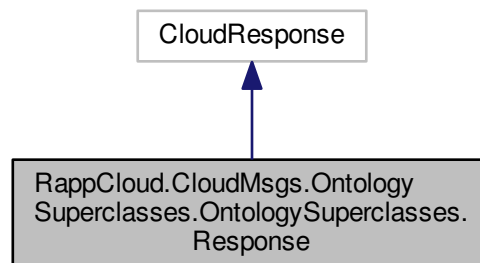
Definition at line 91 of file WeatherReportCurrent.py.

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

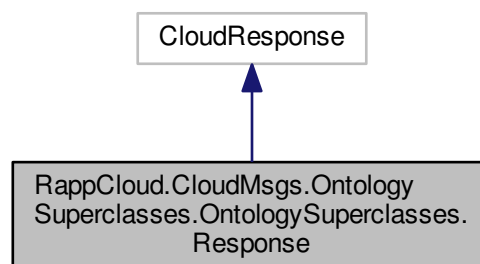
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportCurrent.py](#)

### 6.95 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response:



Collaboration diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response:



#### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*



## Public Attributes

- [error](#)  
*Error message.*
- [results](#)  
*Ontology query results.*

### 6.95.1 Detailed Description

Ontology Superclasses Cloud Response object.

OntologySuperclasses.Response

Definition at line 46 of file OntologySuperclasses.py.

### 6.95.2 Constructor & Destructor Documentation

6.95.2.1 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">error</a></li> <li>• <a href="#">results</a></li> </ul>
------------------------------	---

Definition at line 51 of file OntologySuperclasses.py.

### 6.95.3 Member Data Documentation

6.95.3.1 `RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response.error`

Error message.

Definition at line 61 of file OntologySuperclasses.py.

6.95.3.2 `RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response.results`

Ontology query results.

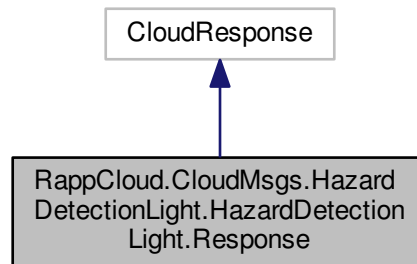
Definition at line 63 of file OntologySuperclasses.py.

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

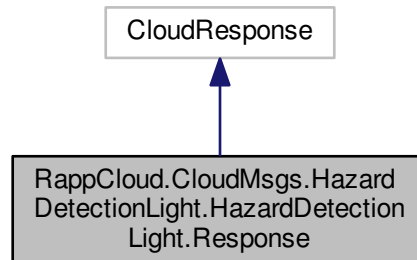
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py`

## 6.96 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

### Public Attributes

- `error`  
*Error message.*
- `light\_level`  
*The, detected on the image frame, light level.*

## 6.96.1 Detailed Description

Hazard Detection Light Check Cloud Response object.

HazardDetectionLight.Response

Definition at line 42 of file HazardDetectionLight.py.

## 6.96.2 Constructor & Destructor Documentation

6.96.2.1 `def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b>**kwargs</b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">error</a></li> <li>• <a href="#">light_level</a></li> </ul>
-----------------	---

Definition at line 47 of file HazardDetectionLight.py.

## 6.96.3 Member Data Documentation

6.96.3.1 `RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response.error`

Error message.

Definition at line 57 of file HazardDetectionLight.py.

6.96.3.2 `RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response.light_level`

The, detected on the image frame, light level.

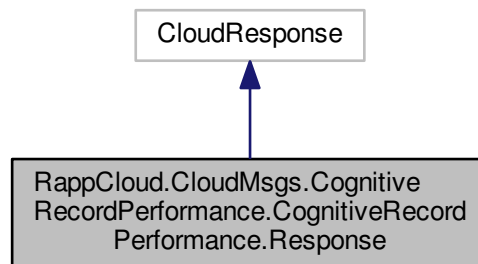
Definition at line 59 of file HazardDetectionLight.py.

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

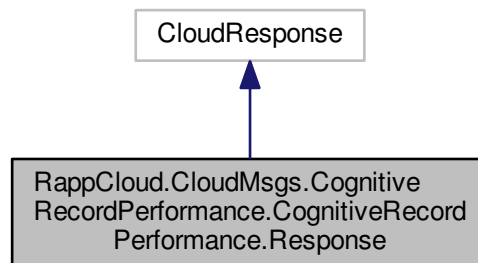
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py`

## 6.97 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Response:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Response:



### Public Member Functions

- `def __init__`  
*Constructor.*

### Public Attributes

- `error`  
*Error message.*
- `performance_entry`  
*Cognitive exercise ontology performance entry.*

### 6.97.1 Detailed Description

Cognitive Record Performance Cloud Response object.  
CognitiveRecordPerformance.Response

Definition at line 48 of file CognitiveRecordPerformance.py.

### 6.97.2 Constructor & Destructor Documentation

6.97.2.1 `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li><code>error</code></li><li><code>performance_entry</code></li></ul>
------------------------------	--

Definition at line 53 of file CognitiveRecordPerformance.py.

### 6.97.3 Member Data Documentation

6.97.3.1 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response.error`

Error message.

Definition at line 63 of file CognitiveRecordPerformance.py.

6.97.3.2 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response.performance_entry`

Cognitive exercise ontology performance entry.

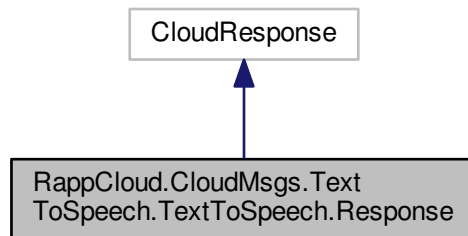
Definition at line 65 of file CognitiveRecordPerformance.py.

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

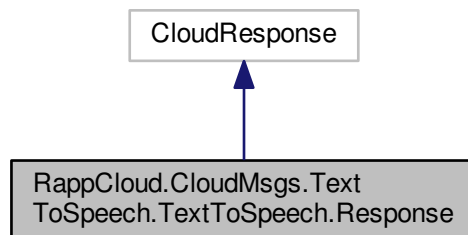
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py`

## 6.98 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response:



Collaboration diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def get\_audio\_raw`  
*Get audio raw data from response.*
- `def store\_audio`  
*Store returned audio data to an audio file given by path.*

### Public Attributes

- `basename`  
*A static basename for the audio data file, returned from the platform service.*
- `encoding`  
*Codec used to encode the audio data payload.*
- `error`

*Error message.*

- `payload`

*The audio data payload.*

### 6.98.1 Detailed Description

Text-To-Speech (TTS) Cloud Response object.

`TextToSpeech.Response`

Definition at line 55 of file `TextToSpeech.py`.

### 6.98.2 Constructor & Destructor Documentation

6.98.2.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <code>error</code></li><li>• <code>payload</code></li><li>• <code>encoding</code></li><li>• <code>basename</code></li></ul>
------------------------------	--

Definition at line 60 of file `TextToSpeech.py`.

### 6.98.3 Member Function Documentation

6.98.3.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.get_audio_raw( self )`

Get audio raw data from response.

Definition at line 85 of file `TextToSpeech.py`.

6.98.3.2 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.store_audio( self, destfile )`

Store returned audio data to an audio file given by path.

Parameters

<b><code>destfile</code></b>	- Destination file path.
------------------------------	--------------------------

Definition at line 92 of file `TextToSpeech.py`.

### 6.98.4 Member Data Documentation

6.98.4.1 `RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.basename`

A static basename for the audio data file, returned from the platform service.

Ignore this field. May be usefull in future implementations.

Definition at line 81 of file `TextToSpeech.py`.

#### 6.98.4.2 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.encoding

Codec used to encode the audio data payload.

Definition at line 77 of file TextToSpeech.py.

#### 6.98.4.3 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.error

Error message.

Definition at line 72 of file TextToSpeech.py.

#### 6.98.4.4 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.payload

The audio data payload.

Payload encoding is defined by the 'encoding' json field.

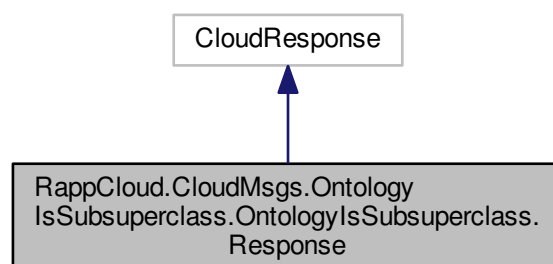
Definition at line 75 of file TextToSpeech.py.

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

- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[TextToSpeech.py](#)

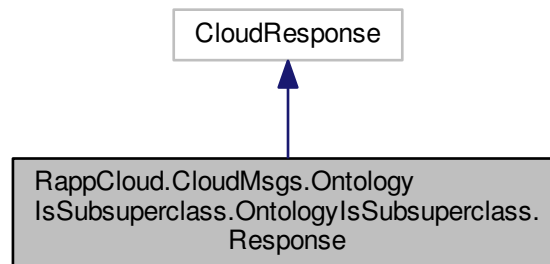
### 6.99 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response:





Collaboration diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*
- `result`  
*Success index on ontology-is-subsuperclass-of query.*

### 6.99.1 Detailed Description

Ontology Is Sub-Superclass Cloud Response object.

`OntologyIsSubsuperclass.Response`

Definition at line 53 of file `OntologyIsSubsuperclass.py`.

### 6.99.2 Constructor & Destructor Documentation

6.99.2.1 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <code><a href="#">error</a></code></li><li>• <code><a href="#">result</a></code></li></ul>
------------------------------	---

Definition at line 58 of file `OntologyIsSubsuperclass.py`.

### 6.99.3 Member Data Documentation

#### 6.99.3.1 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response.error

Error message.

Definition at line 68 of file OntologyIsSubsuperclass.py.

#### 6.99.3.2 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response.result

Success index on ontology-is-subsuperclass-of query.

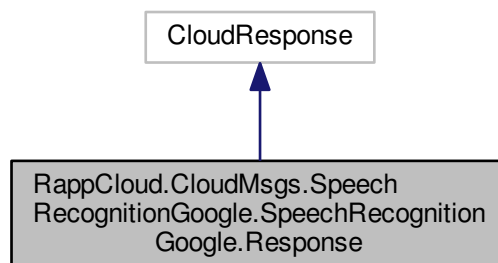
Definition at line 70 of file OntologyIsSubsuperclass.py.

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

- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py](/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py)

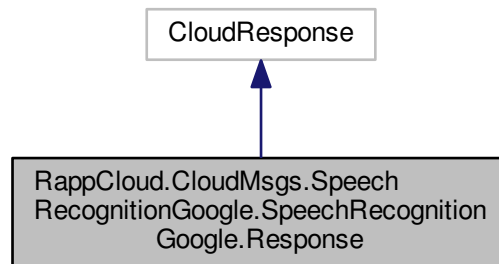
## 6.100 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.-Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.-

Response:



## Public Member Functions

- `def __init__`  
*Constructor.*

## Public Attributes

- `alternatives`  
*Alternative sentences.*
- `error`  
*Error message.*
- `words`  
*An array that contains the "words-found" with highest confidence.*

### 6.100.1 Detailed Description

Speech Recognition Google Cloud Response object.

`SpeechRecognitionGoogle.Response`

Definition at line 51 of file `SpeechRecognitionGoogle.py`.

### 6.100.2 Constructor & Destructor Documentation

6.100.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	<ul style="list-style-type: none"><li>- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none"><li>• <code>error</code></li><li>• <code>words</code></li><li>• <code>alternatives</code></li></ul></li></ul>
------------------------------	---

Definition at line 56 of file SpeechRecognitionGoogle.py.

### 6.100.3 Member Data Documentation

#### 6.100.3.1 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response.alternatives

Alternative sentences.

e.g. [['send', 'mail'], ['send', 'email'], ['set', 'mail']...]

Definition at line 70 of file SpeechRecognitionGoogle.py.

#### 6.100.3.2 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response.error

Error message.

Definition at line 72 of file SpeechRecognitionGoogle.py.

#### 6.100.3.3 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response.words

An array that contains the "words-found" with highest confidence.

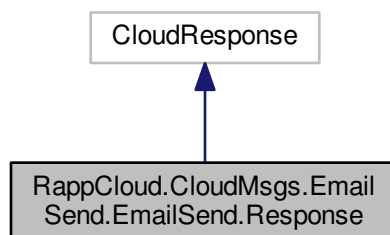
Definition at line 67 of file SpeechRecognitionGoogle.py.

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

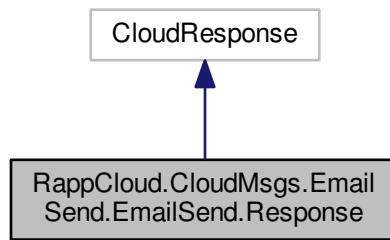
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[SpeechRecognitionGoogle.py](#)

## 6.101 RappCloud.CloudMsgs.EmailSend.EmailSend.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailSend.EmailSend.Response:



Collaboration diagram for RappCloud.CloudMsgs.EmailSend.EmailSend.Response:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*

### 6.101.1 Detailed Description

Email Send Cloud Response object.

`EmailSend.Response`

Definition at line 75 of file `EmailSend.py`.

### 6.101.2 Constructor & Destructor Documentation

6.101.2.1 `def RappCloud.CloudMsgs.EmailSend.EmailSend.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes.
	<ul style="list-style-type: none"> <li>• <code><a href="#">error</a></code></li> </ul>

Definition at line 80 of file `EmailSend.py`.

### 6.101.3 Member Data Documentation

6.101.3.1 `RappCloud.CloudMsgs.EmailSend.EmailSend.Response.error`

Error message.

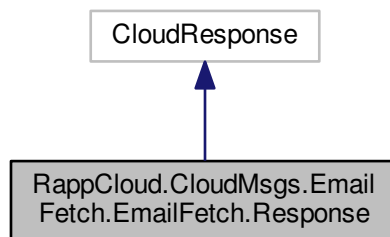
Definition at line 89 of file EmailSend.py.

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

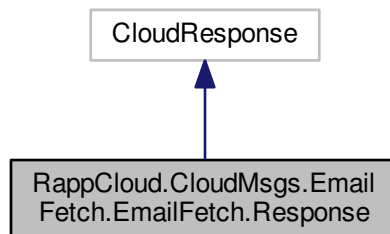
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py](#)

## 6.102 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response:



Collaboration diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response:



### Public Member Functions

- [def `\_\_init\_\_`](#)  
*Constructor.*

### Public Attributes

- [emails](#)  
*An array of emailEntry objects, where emailEntry is of structure: {sender: ", receivers: [], date: ", body: ", attachments: []}.*

- [error](#)

*Error message.*

### 6.102.1 Detailed Description

Email Fetch Cloud Response object.

EmailFetch.Response

Definition at line 72 of file EmailFetch.py.

### 6.102.2 Constructor & Destructor Documentation

#### 6.102.2.1 def RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response.\_\_init\_\_( self, kwargs )

Constructor.

Parameters

<b>**kwargs</b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <a href="#">error</a></li><li>• <a href="#">emails</a></li></ul>
-----------------	---

Definition at line 77 of file EmailFetch.py.

### 6.102.3 Member Data Documentation

#### 6.102.3.1 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response.emails

An array of emailEntry objects, where emailEntry is of structure: {sender: ", receivers: [], date: ", body: ", attachments: []}.

Definition at line 90 of file EmailFetch.py.

#### 6.102.3.2 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response.error

Error message.

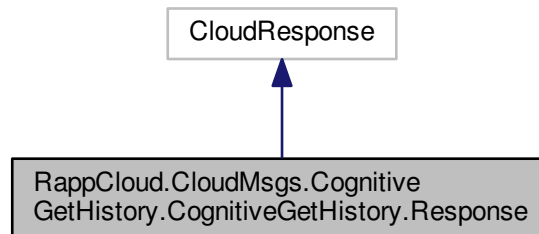
Definition at line 87 of file EmailFetch.py.

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

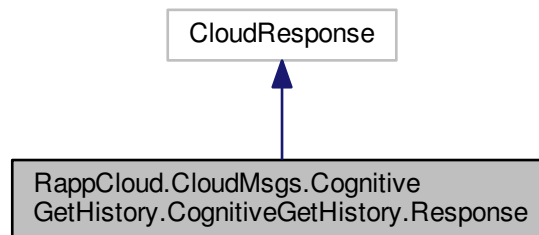
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[EmailFetch.py](#)

## 6.103 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

### Public Attributes

- `error`  
*Error message.*
- `records`  
*Users history records.*

### 6.103.1 Detailed Description

Cognitive Get History Cloud Response object.



CognitiveGetHistory.Response

Definition at line 57 of file CognitiveGetHistory.py.

## 6.103.2 Constructor & Destructor Documentation

6.103.2.1 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><i>**kwargs</i></b>	<p>- Keyword arguments. Apply values to the request attributes.</p> <ul style="list-style-type: none"><li>• <a href="#">error</a></li><li>• <a href="#">records</a></li></ul>
------------------------	---

Definition at line 62 of file CognitiveGetHistory.py.

## 6.103.3 Member Data Documentation

6.103.3.1 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response.error`

Error message.

Definition at line 72 of file CognitiveGetHistory.py.

6.103.3.2 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response.records`

Users history records.

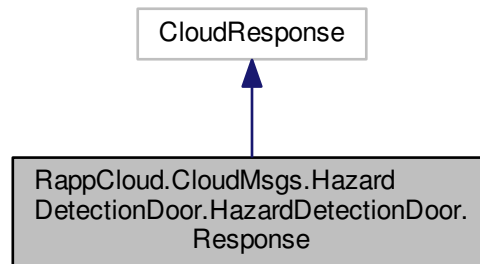
Definition at line 74 of file CognitiveGetHistory.py.

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

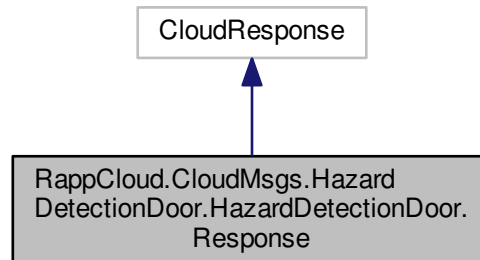
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py`

## 6.104 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

### Public Attributes

- `door\_angle`  
*The angle of the detected door.*
- `error`  
*Error message.*

### 6.104.1 Detailed Description

Hazard Detection Door Check Cloud Response object.

HazardDetectionDoor.Response

Definition at line 42 of file HazardDetectionDoor.py.

### 6.104.2 Constructor & Destructor Documentation

6.104.2.1 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">error</a></li> <li>• <a href="#">door_angle</a></li> </ul>
------------------------------	--

Definition at line 47 of file HazardDetectionDoor.py.

### 6.104.3 Member Data Documentation

6.104.3.1 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response.door_angle`

The angle of the detected door.

Definition at line 59 of file HazardDetectionDoor.py.

6.104.3.2 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response.error`

Error message.

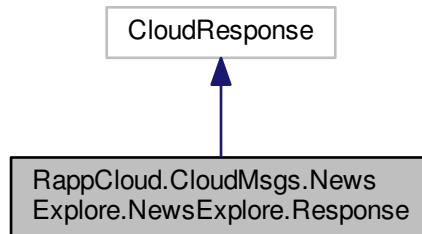
Definition at line 57 of file HazardDetectionDoor.py.

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

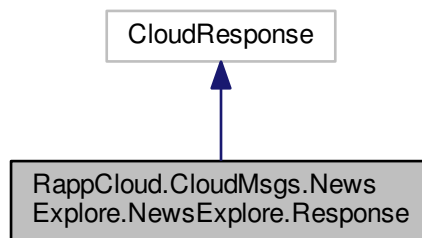
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py`

## 6.105 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response:



Collaboration diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

### Public Attributes

- `error`  
*Error message.*
- `news\_stories`  
*Array of story objects, where story is of structure: { title: ", content: ", puplisher: ", publishedDate: ", url: " }.*

### 6.105.1 Detailed Description

News Explore Cloud Response object.

`NewsExplore.Response`

Definition at line 64 of file NewsExplore.py.

## 6.105.2 Constructor & Destructor Documentation

6.105.2.1 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes.  • <a href="#">error</a>
------------------------------	---

Definition at line 69 of file NewsExplore.py.

## 6.105.3 Member Data Documentation

6.105.3.1 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response.error`

Error message.

Definition at line 78 of file NewsExplore.py.

6.105.3.2 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response.news_stories`

Array of story objects, where story is of structure: { title: ", content: ", puplisher: ", publishedDate: ", url: " }.

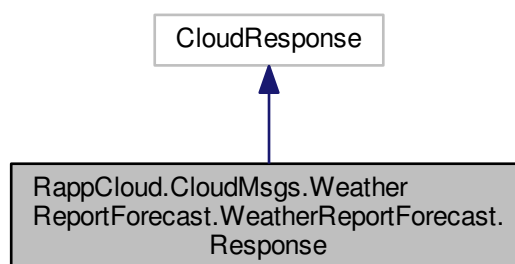
Definition at line 81 of file NewsExplore.py.

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

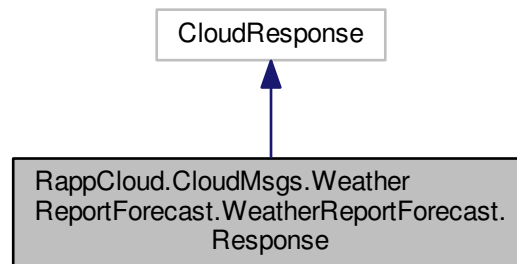
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py](/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py)

## 6.106 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*
- `forecast`  
*Array of forecastEntry objects, where forecastEntry is of structure: {high\_temp: ", low\_temp: ", description: ", date: "}.*

### 6.106.1 Detailed Description

Weather Report Forecast Cloud Response object.

`WeatherReportForecast.Response`

Definition at line 52 of file `WeatherReportForecast.py`.

### 6.106.2 Constructor & Destructor Documentation

6.106.2.1 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code><a href="#">error</a></code></li> <li>• <code><a href="#">forecast</a></code></li> </ul>
------------------------------	--

Definition at line 57 of file `WeatherReportForecast.py`.

### 6.106.3 Member Data Documentation

#### 6.106.3.1 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response.error

Error message.

Definition at line 67 of file WeatherReportForecast.py.

#### 6.106.3.2 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response.forecast

Array of forecastEntry objects, where forecastEntry is of structure: {high\_temp: ", low\_temp: ", description: ", date: "}.

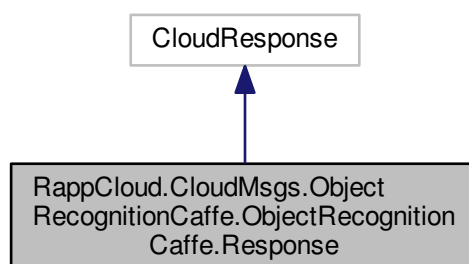
Definition at line 70 of file WeatherReportForecast.py.

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

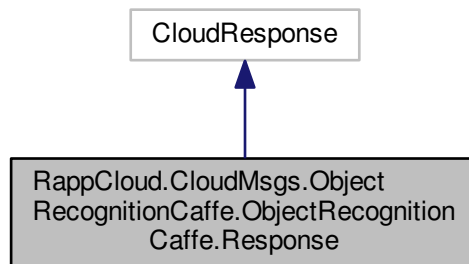
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportForecast.py](#)

## 6.107 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response:



Collaboration diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response:



## Public Member Functions

- `def __init__`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*
- `object_class`  
*Recognized object class.*

### 6.107.1 Detailed Description

Object Recognition (Caffe) Cloud Response object.

`ObjectRecognitionCaffe.Response`

Definition at line 42 of file `ObjectRecognitionCaffe.py`.

### 6.107.2 Constructor & Destructor Documentation

6.107.2.1 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>error</code></li> <li>• <code>object_class</code></li> </ul>
------------------------------	--

Definition at line 47 of file `ObjectRecognitionCaffe.py`.



### 6.107.3 Member Data Documentation

#### 6.107.3.1 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response.error

Error message.

Definition at line 57 of file ObjectRecognitionCaffe.py.

#### 6.107.3.2 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response.object\_class

Recognized object class.

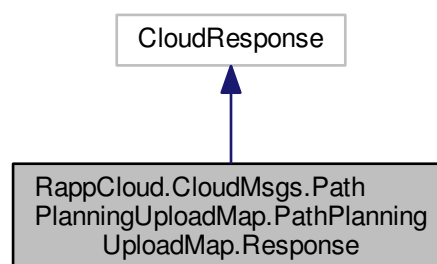
Definition at line 59 of file ObjectRecognitionCaffe.py.

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

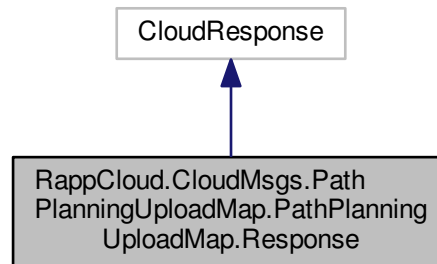
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[ObjectRecognitionCaffe.py](#)

## 6.108 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*

### 6.108.1 Detailed Description

Path Planning Upload Map Cloud Response object.

`PathPlanningUploadMap.Response`

Definition at line 50 of file `PathPlanningUploadMap.py`.

### 6.108.2 Constructor & Destructor Documentation

6.108.2.1 `def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes.  • <code><a href="#">error</a></code>
-----------------------	--

Definition at line 55 of file `PathPlanningUploadMap.py`.

### 6.108.3 Member Data Documentation

## 6.108.3.1 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response.error

Error message.

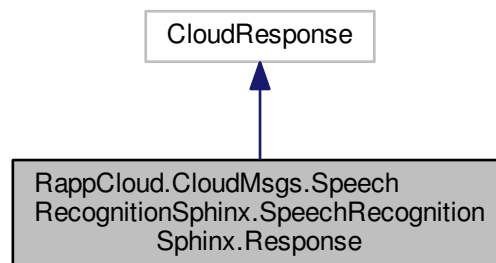
Definition at line 64 of file PathPlanningUploadMap.py.

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

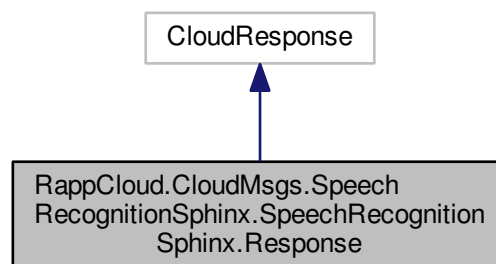
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[PathPlanningUploadMap.py](#)

## 6.109 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.-Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [error](#)

*Error message.*

- [words](#)

*Recognized words.*

### 6.109.1 Detailed Description

Speech Recognition Sphinx4 Cloud Response object.  
`SpeechRecognitionSphinx.Response`

Definition at line 62 of file `SpeechRecognitionSphinx.py`.

### 6.109.2 Constructor & Destructor Documentation

6.109.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <a href="#">error</a></li><li>• <a href="#">words</a></li></ul>
------------------------------	--

Definition at line 66 of file `SpeechRecognitionSphinx.py`.

### 6.109.3 Member Data Documentation

6.109.3.1 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response.error`

Error message.

Definition at line 78 of file `SpeechRecognitionSphinx.py`.

6.109.3.2 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response.words`

Recognized words.

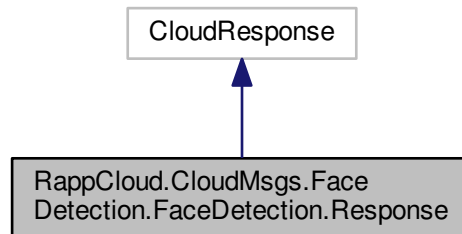
Definition at line 76 of file `SpeechRecognitionSphinx.py`.

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

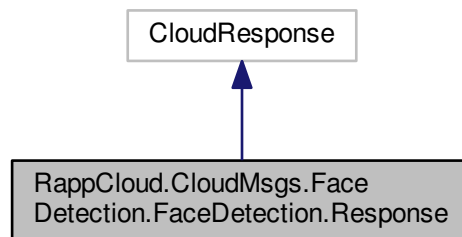
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py`

## 6.110 RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response:



Collaboration diagram for RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

### Public Attributes

- `error`  
*Error message.*
- `faces`  
*Detected faces.*

### 6.110.1 Detailed Description

Face Detection Cloud Response object. `FaceDetection.Response`

Definition at line 44 of file `FaceDetection.py`.

## 6.110.2 Constructor & Destructor Documentation

### 6.110.2.1 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">error</a></li> <li>• <a href="#">faces</a></li> </ul>
------------------------------	---

Definition at line 46 of file `FaceDetection.py`.

## 6.110.3 Member Data Documentation

### 6.110.3.1 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response.error`

Error message.

Definition at line 56 of file `FaceDetection.py`.

### 6.110.3.2 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response.faces`

Detected faces.

Array of face objects. TODO create face object.

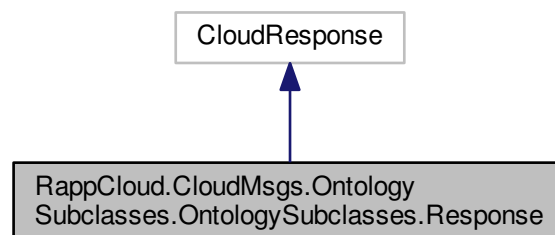
Definition at line 58 of file `FaceDetection.py`.

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

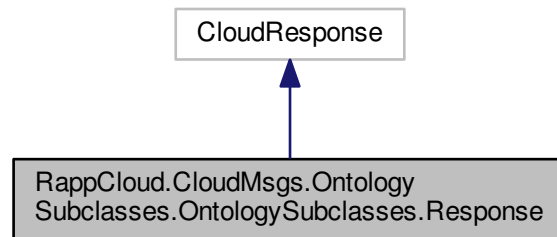
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py`

## 6.111 `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response` Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response`:



Collaboration diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response:



## Public Member Functions

- `def __init__`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*
- `results`  
*Ontology query results.*

### 6.111.1 Detailed Description

Ontology Subclasses Cloud Response object.

`OntologySubclasses.Response`

Definition at line 46 of file `OntologySubclasses.py`.

### 6.111.2 Constructor & Destructor Documentation

6.111.2.1 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>error</code></li> <li>• <code>results</code></li> </ul>
------------------------------	---

Definition at line 51 of file `OntologySubclasses.py`.

### 6.111.3 Member Data Documentation

#### 6.111.3.1 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response.error

Error message.

Definition at line 61 of file OntologySubclasses.py.

#### 6.111.3.2 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response.results

Ontology query results.

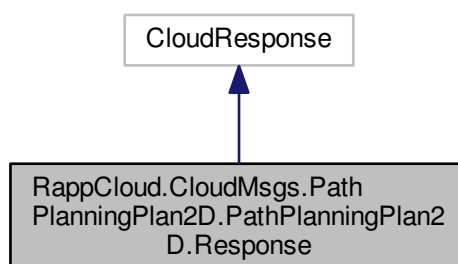
Definition at line 63 of file OntologySubclasses.py.

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

- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[OntologySubclasses.py](#)

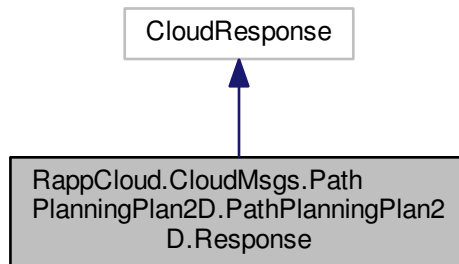
## 6.112 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response:





Collaboration diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response:



## Public Member Functions

- `def __init__`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*
- `path`  
*If plan\_found is equal to 0 (path found), this is an array of waypoints from start to goal.*
- `plan_found`  
*Plan Status.*

### 6.112.1 Detailed Description

Path Planning Plan 2D Cloud Response object.

`PathPlanningPlan2D.Response`

Definition at line 67 of file `PathPlanningPlan2D.py`.

### 6.112.2 Constructor & Destructor Documentation

6.112.2.1 `def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes.  • <code>error</code>
-----------------------	--

Definition at line 72 of file `PathPlanningPlan2D.py`.

### 6.112.3 Member Data Documentation

#### 6.112.3.1 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response.error

Error message.

Definition at line 81 of file PathPlanningPlan2D.py.

#### 6.112.3.2 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response.path

If plan\_found is equal to 0 (path found), this is an array of waypoints from start to goal.

Definition at line 91 of file PathPlanningPlan2D.py.

#### 6.112.3.3 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response.plan\_found

Plan Status.

Can be one of:

- 0 : path cannot be planned.
- 1 : path found.
- 2 : wrong map name.
- 3 : wrong robot type.
- 4 : wrong algorithm.

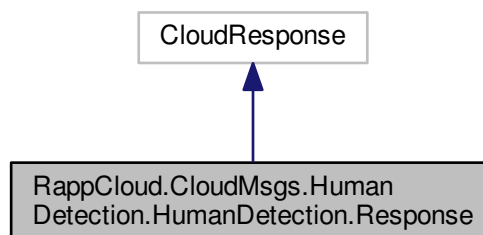
Definition at line 88 of file PathPlanningPlan2D.py.

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

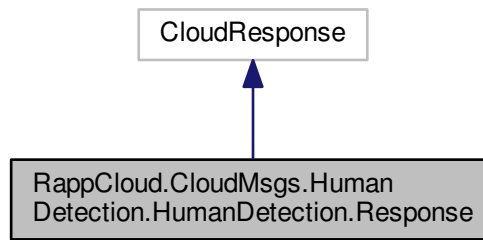
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py](#)

## 6.113 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response:



Collaboration diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response:



## Public Member Functions

- `def __init__`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*
- `humans`  
*Array of detected humans TODO Create human objects.*

### 6.113.1 Detailed Description

Human Detection Cloud Response object. `HumanDetection.Response`

Definition at line 39 of file `HumanDetection.py`.

### 6.113.2 Constructor & Destructor Documentation

6.113.2.1 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>error</code></li> <li>• <code>humans</code></li> </ul>
------------------------------	--

Definition at line 41 of file `HumanDetection.py`.

### 6.113.3 Member Data Documentation

#### 6.113.3.1 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response.error

Error message.

Definition at line 51 of file HumanDetection.py.

#### 6.113.3.2 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response.humans

Array of detected humans TODO Create human objects.

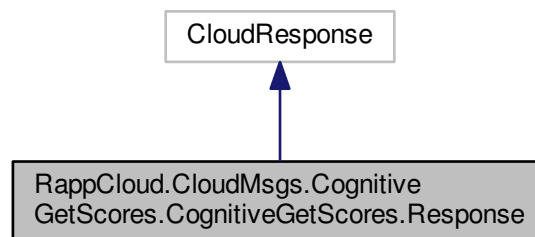
Definition at line 54 of file HumanDetection.py.

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

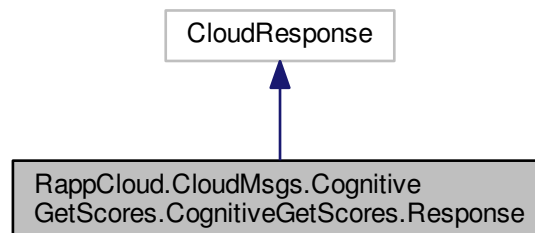
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[HumanDetection.py](#)

## 6.114 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response:



## Public Member Functions

- `def __init__`  
*Constructor.*

## Public Attributes

- `error`  
*Error message.*
- `scores`  
*Array of scores.*
- `test_classes`  
*Array of the test classes indexes.*

### 6.114.1 Detailed Description

Cognitive Get Scores Cloud Response object.

`CognitiveGetScores.Response`

Definition at line 53 of file `CognitiveGetScores.py`.

### 6.114.2 Constructor & Destructor Documentation

6.114.2.1 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <code>error</code></li> <li>• <code>test_classes</code></li> <li>• <code>scores</code></li> </ul>
-----------------------	---

Definition at line 58 of file `CognitiveGetScores.py`.

### 6.114.3 Member Data Documentation

6.114.3.1 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response.error`

Error message.

Definition at line 69 of file `CognitiveGetScores.py`.

6.114.3.2 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response.scores`

Array of scores.

Each array index corresponds to the test class in `test_classes`

Definition at line 74 of file `CognitiveGetScores.py`.

### 6.114.3.3 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response.test\_classes

Array of the test classes indexes.

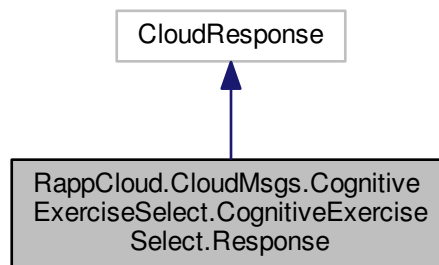
Definition at line 71 of file CognitiveGetScores.py.

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

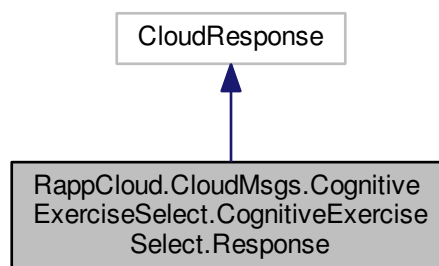
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[CognitiveGetScores.py](#)

## 6.115 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [correct\\_ans](#)  
*The set of correct answers for each question.*
- [error](#)  
*Error message.*
- [possib\\_ans](#)  
*The set of possible answers for each question.*
- [questions](#)  
*The set of questions for the exercise.*
- [test\\_instance](#)  
*Returned test instance name.*
- [test\\_subtype](#)  
*Cognitive exercise sub-type.*
- [test\\_type](#)  
*Cognitive exercise class/type.*

### 6.115.1 Detailed Description

Cognitive Exercise Select Cloud Response object.

`CognitiveExerciseSelect.Response`

Definition at line 67 of file `CognitiveExerciseSelect.py`.

### 6.115.2 Constructor & Destructor Documentation

6.115.2.1 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">error</a></li> <li>• <a href="#">questions</a></li> <li>• <a href="#">possib_ans</a></li> <li>• <a href="#">correct_ans</a></li> <li>• <a href="#">test_instance</a></li> <li>• <a href="#">test_type</a></li> <li>• <a href="#">test_subtype</a></li> </ul>
------------------------------	--

Definition at line 72 of file `CognitiveExerciseSelect.py`.

### 6.115.3 Member Data Documentation

6.115.3.1 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.correct_ans`

The set of correct answers for each question.

Definition at line 93 of file `CognitiveExerciseSelect.py`.

#### 6.115.3.2 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.error

Error message.

Definition at line 87 of file CognitiveExerciseSelect.py.

#### 6.115.3.3 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.possib\_ans

The set of possible answers for each question.

Definition at line 91 of file CognitiveExerciseSelect.py.

#### 6.115.3.4 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.questions

The set of questions for the exercise.

Definition at line 89 of file CognitiveExerciseSelect.py.

#### 6.115.3.5 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.test\_instance

Returned test instance name.

e.g. 'ArithmeticCts\_askw0Snwk'

Definition at line 96 of file CognitiveExerciseSelect.py.

#### 6.115.3.6 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.test\_subtype

Cognitive exercise sub-type.

Definition at line 100 of file CognitiveExerciseSelect.py.

#### 6.115.3.7 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.test\_type

Cognitive exercise class/type.

Definition at line 98 of file CognitiveExerciseSelect.py.

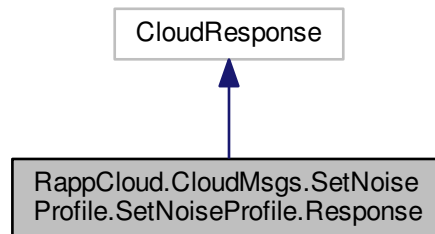
The documentation for this class was generated from the following file:

- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py](#)

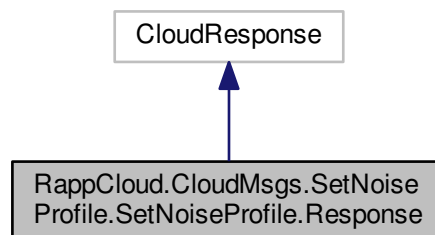


## 6.116 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response:



Collaboration diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response:



### Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*

### Public Attributes

- `error`  
*Error message.*

### 6.116.1 Detailed Description

Set Noise Profile Cloud Response object.

SetNoiseProfile.Response

Definition at line 46 of file SetNoiseProfile.py.

## 6.116.2 Constructor & Destructor Documentation

6.116.2.1 `def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes.  • <a href="#">error</a>
------------------------------	---

Definition at line 51 of file SetNoiseProfile.py.

## 6.116.3 Member Data Documentation

6.116.3.1 `RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response.error`

Error message.

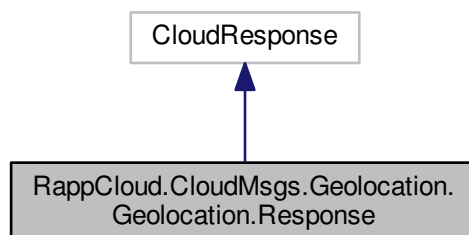
Definition at line 60 of file SetNoiseProfile.py.

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

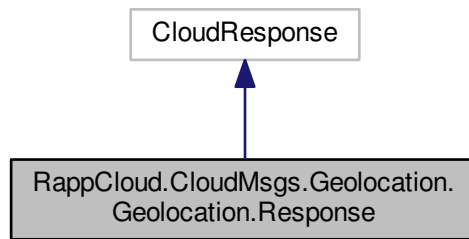
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py](/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py)

## 6.117 RappCloud.CloudMsgs.Geolocation.Geolocation.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Geolocation.Geolocation.Response:



Collaboration diagram for RappCloud.CloudMsgs.Geolocation.Geolocation.Response:



### Public Member Functions

- `def __init__`  
*Constructor.*

### Public Attributes

- `city`  
*City location.*
- `country`  
*Country location.*
- `country_code`  
*Location's country code.*
- `error`  
*Error message.*
- `latitude`  
*The latitude.*
- `longitude`  
*The longitude.*
- `region`  
*Location region.*
- `timezone`  
*Location timezone.*
- `zip`  
*Location zip-postal code.*

#### 6.117.1 Detailed Description

Geolocation Cloud Response object.

`Geolocation.Response`

Definition at line 47 of file `Geolocation.py`.

## 6.117.2 Constructor & Destructor Documentation

6.117.2.1 `def RappCloud.CloudMsgs.Geolocation.Geolocation.Response.__init__( self, kwargs )`

Constructor.

## Parameters

<b><i>**kwargs</i></b>	<div>- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none"><li>• <a href="#">error</a></li><li>• <a href="#">city</a></li><li>• <a href="#">country</a></li><li>• <a href="#">country_code</a></li><li>• <a href="#">latitude</a></li><li>• <a href="#">longitude</a></li><li>• <a href="#">timezone</a></li><li>• <a href="#">zip</a></li></ul></div>
------------------------	--

Definition at line 52 of file Geolocation.py.

### 6.117.3 Member Data Documentation

#### 6.117.3.1 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.city

City location.

Definition at line 70 of file Geolocation.py.

#### 6.117.3.2 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.country

Country location.

Definition at line 72 of file Geolocation.py.

#### 6.117.3.3 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.country\_code

Location's country code.

Definition at line 74 of file Geolocation.py.

#### 6.117.3.4 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.error

Error message.

Definition at line 68 of file Geolocation.py.

#### 6.117.3.5 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.latitude

The latitude.

Definition at line 76 of file Geolocation.py.

#### 6.117.3.6 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.longitude

The longitude.

Definition at line 78 of file Geolocation.py.

### 6.117.3.7 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.region

Location region.

Definition at line 80 of file Geolocation.py.

### 6.117.3.8 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.timezone

Location timezone.

Definition at line 82 of file Geolocation.py.

### 6.117.3.9 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.zip

Location zip-postal code.

Definition at line 84 of file Geolocation.py.

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

- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py](#)

## 6.118 rapp::cloud::service\_controller Class Reference

Main class that controllers RAPP Services.

```
#include <service_controller.hpp>
```

### Public Member Functions

- [service\\_controller](#) ()  
*no empty constructor*
- void [run\\_job](#) (const std::shared\_ptr< [asio\\_socket](#) > job)  
*Run one service job.*
- void [run\\_jobs](#) (const std::vector< std::shared\_ptr< [asio\\_socket](#) >> &jobs)  
*Run a group of jobs in a batch.*
- void [stop](#) ()  
*stop the service controller*

### Private Attributes

- boost::asio::io\_service [io\\_](#)
- boost::asio::ip::tcp::resolver::query [query\\_](#)  
*resolution, query and io service*
- boost::asio::ip::tcp::resolver [resol\\_](#)

### 6.118.1 Detailed Description

Main class that controllers RAPP Services.

Version

**Date**

January-2016

**Author**Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

This class controls services (be it on cloud or robot). A service is a callable function which offers some type of functionality to the callee. Whilst most services reside on the cloud (`rapp::services::cloud`) some may reside on the robot (`rapp::services::robot`). The service controller is used for either cloud or robot, as it essentially controls the socket connections. This is low-level stuff, and is of little concern to external developers, and is to be used only by developers who wish to create or extend services.

Definition at line 20 of file `service_controller.hpp`.

**6.118.2 Constructor & Destructor Documentation****6.118.2.1 rapp::cloud::service\_controller::service\_controller ( )**

no empty constructor

Definition at line 5 of file `service_controller.cpp`.

**6.118.3 Member Function Documentation****6.118.3.1 void rapp::cloud::service\_controller::run\_job ( const std::shared\_ptr< asio\_socket > job )**

Run one service job.

**Parameters**

<i>client</i>	is the actual object pointer that will be executed in a single operation
---------------	--

**Note**

upon completion, the object's handler will be invoked  
upon completion - scheduler is reset

Definition at line 9 of file `service_controller.cpp`.

**6.118.3.2 void rapp::cloud::service\_controller::run\_jobs ( const std::vector< std::shared\_ptr< asio\_socket >> & jobs )**

Run a group of jobs in a batch.

**Parameters**

<i>jobs</i>	is vector of constant pointers to client services
-------------	---

**Note**

upon completion, the each object's handler will be invoked

**Warning**

upon completion, the queue schedule will be reset.

Definition at line 19 of file `service_controller.cpp`.

### 6.118.3.3 void rapp::cloud::service\_controller::stop ( )

stop the service controller

Definition at line 33 of file service\_controller.cpp.

## 6.118.4 Member Data Documentation

### 6.118.4.1 boost::asio::io\_service rapp::cloud::service\_controller::io\_ [private]

Definition at line 49 of file service\_controller.hpp.

### 6.118.4.2 boost::asio::ip::tcp::resolver::query rapp::cloud::service\_controller::query\_ [private]

resolution, query and io service

Definition at line 48 of file service\_controller.hpp.

### 6.118.4.3 boost::asio::ip::tcp::resolver rapp::cloud::service\_controller::resol\_ [private]

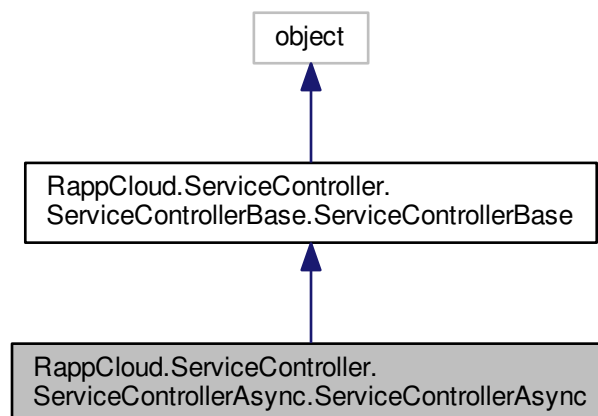
Definition at line 50 of file service\_controller.hpp.

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

- /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/service\_controller/[service\\_controller.hpp](#)
- /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/service\_controller/[service\\_controller.cpp](#)

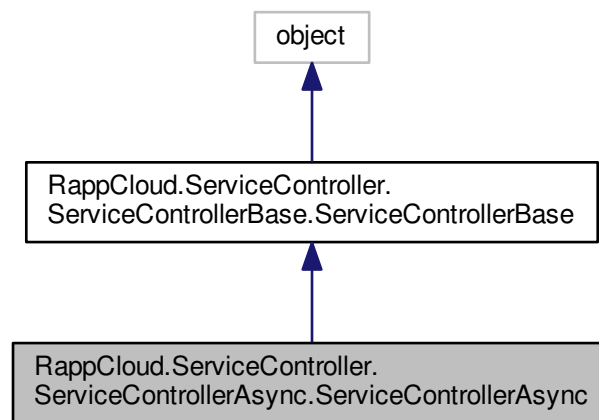
## 6.119 RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync Class Reference

Inheritance diagram for RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync:





Collaboration diagram for RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync:



## Public Member Functions

- `def \_\_init\_\_`  
*Constructor.*
- `def run\_job`  
*Run the service.*

## Private Member Functions

- `def \_worker\_exec`

## Private Attributes

- `\_\_threadPool`

## Additional Inherited Members

### 6.119.1 Detailed Description

Synchronous service controller class implementation.

Definition at line 37 of file ServiceControllerAsync.py.

### 6.119.2 Constructor & Destructor Documentation

6.119.2.1 `def RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync.__init__( self, service, max_workers = 8 )`

Constructor.

## Parameters

<i>service</i>	<a href="#">Service</a> - <a href="#">Service</a> instance.
<i>max_workers</i>	- Number of maximum workers to spawn

Definition at line 40 of file ServiceControllerAsync.py.

### 6.119.3 Member Function Documentation

6.119.3.1 `def RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync._worker_exec ( self, msg, url, clb=None ) [private]`

Definition at line 65 of file ServiceControllerAsync.py.

6.119.3.2 `def RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync.run_job ( self, msg, url, clb=None )`

Run the service.

Submit callback function to the worker thread and return the future.

## Parameters

<i>clb</i>	Function - Callback function to execute on arrival of the response.
------------	---

## Returns

`_future` - The future.

Definition at line 52 of file ServiceControllerAsync.py.

### 6.119.4 Member Data Documentation

6.119.4.1 `RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync.__threadPool [private]`

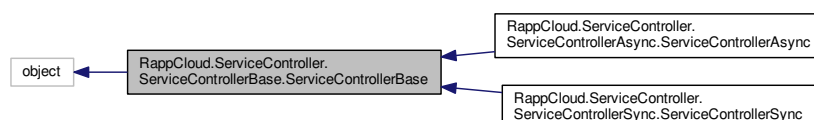
Definition at line 47 of file ServiceControllerAsync.py.

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

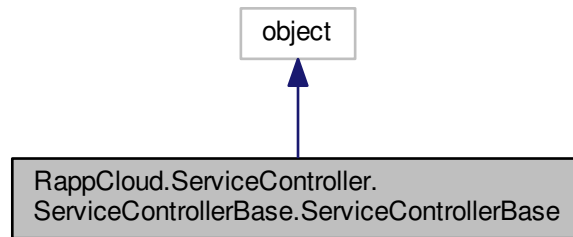
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerAsync.py`

## 6.120 RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase Class Reference

Inheritance diagram for RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase:



Collaboration diagram for RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase:



## Public Member Functions

- def `__init__`  
*Constructor.*
- def `basename`  
*Return the basename of input filepath.*
- def `handle_exception`  
*Handles exceptions and return an error message that complies to the Exception caught.*
- def `is_json`  
*Check if it is a json string.*
- def `post_request`  
*General member method to perform a .post request to the.*
- def `run_job`

## Public Attributes

- `session_`

## Private Member Functions

- def `__mount_adapters`  
*Mount http and https Transport [Adapters](#) to the session.*
- def `_post_persistent`  
*Post Request using active session - persistent connection.*
- def `_post_session_once`  
*Post Request while initiating a new session.*

## Private Attributes

- `__auth`
- `__customHeaders`
- `_service`  
*Cloud [Service](#) instance.*

### 6.120.1 Detailed Description

Service Controller base class implementation

Definition at line 44 of file ServiceControllerBase.py.

### 6.120.2 Constructor & Destructor Documentation

#### 6.120.2.1 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.__init__( self, service )`

Constructor.

Parameters

<i>service</i>	Service: <a href="#">Service</a> instance
<i>connection</i>	dictionary: Connection information.
<i>timeout</i>	int: Connection Timeout value.

Definition at line 47 of file ServiceControllerBase.py.

### 6.120.3 Member Function Documentation

#### 6.120.3.1 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.__mount_adapters( self, session )` [private]

Mount http and https Transport [Adapters](#) to the session.

Parameters

<i>session</i>	Session - The session to mount the adapters.
----------------	--

Definition at line 172 of file ServiceControllerBase.py.

#### 6.120.3.2 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase._post_persistent( self, url, data, files )` [private]

Post Request using active session - persistent connection.

Parameters

<i>data</i>	dictionary - the data payload to send.
<i>files</i>	Array - Array of serialized File objects to send.

Definition at line 163 of file ServiceControllerBase.py.

#### 6.120.3.3 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase._post_session_once( self, url, data, files )` [private]

Post Request while initiating a new session.

Parameters

<i>data</i>	dictionary - the data payload to send.
<i>files</i>	Array - Array of serialized File objects to send.

Definition at line 151 of file ServiceControllerBase.py.

6.120.3.4 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.basename ( self, filepath )`

Return the basename of input filepath.

Definition at line 87 of file ServiceControllerBase.py.

6.120.3.5 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.handle_exception ( self, exc )`

Handles exceptions and return an error message that complies to the Exception caught.

Parameters

<i>exc</i>	Exception of any type
------------	-----------------------

Definition at line 181 of file ServiceControllerBase.py.

6.120.3.6 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.is_json ( self, obj )`

Check if it is a json string.

Parameters

<i>obj</i>	string
------------	--------

Returns

- True if is a json. False otherwise.

Definition at line 70 of file ServiceControllerBase.py.

6.120.3.7 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.post_request ( self, session, url, payload = { }, files = [ ] )`

General member method to perform a .post request to the.

Platform service. If files are specified, then multipart/form-data form is used. Otherwise, x-www-urlencoded form is used.

Parameters

<i>session</i>	The session object to use for this request.
<i>urlpath</i>	The complete urlpath of the request.
<i>data</i>	The data to send. Literal.
<i>files</i>	Files to send.

Returns

dictionary - Platform [Service](#) response.

Definition at line 93 of file ServiceControllerBase.py.

6.120.3.8 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.run_job ( self )`

Definition at line 83 of file ServiceControllerBase.py.

## 6.120.4 Member Data Documentation

#### 6.120.4.1 `RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.__auth` [private]

Definition at line 62 of file `ServiceControllerBase.py`.

#### 6.120.4.2 `RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.__customHeaders` [private]

Definition at line 64 of file `ServiceControllerBase.py`.

#### 6.120.4.3 `RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase._service` [private]

Cloud [Service](#) instance.

Definition at line 55 of file `ServiceControllerBase.py`.

#### 6.120.4.4 `RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.session_`

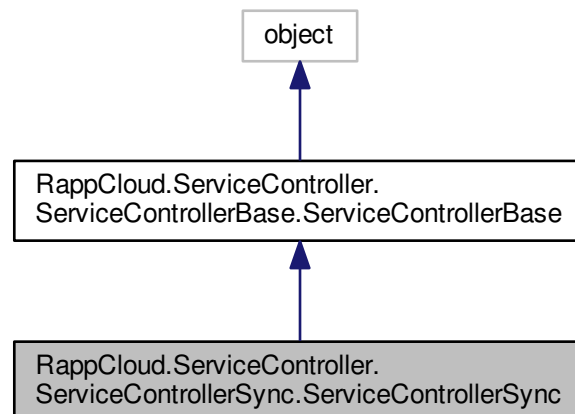
Definition at line 59 of file `ServiceControllerBase.py`.

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

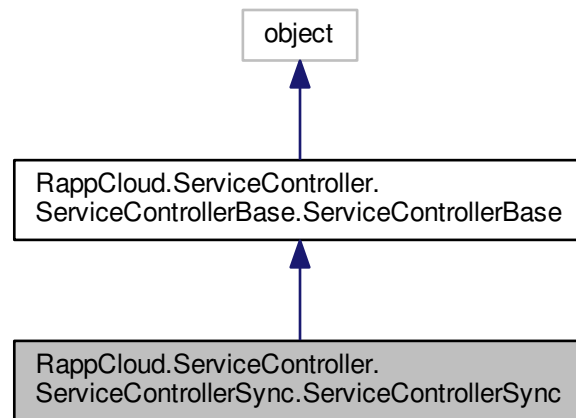
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerBase.py`

## 6.121 `RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync` Class Reference

Inheritance diagram for `RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync`:



Collaboration diagram for RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync:



## Public Member Functions

- def `__init__`  
*Constructor.*
- def `run_job`  
*Run the service.*

## Additional Inherited Members

### 6.121.1 Detailed Description

Synchronous service controller class implementation.

Definition at line 34 of file ServiceControllerSync.py.

### 6.121.2 Constructor & Destructor Documentation

6.121.2.1 def RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync.\_\_init\_\_( self, service )

Constructor.

Parameters

<code>service</code>	<a href="#">Service</a> - <a href="#">Service</a> instance.
----------------------	---

Definition at line 37 of file ServiceControllerSync.py.

### 6.121.3 Member Function Documentation

6.121.3.1 def RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync.run\_job( self, msg, url )

Run the service.

Definition at line 45 of file ServiceControllerSync.py.

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

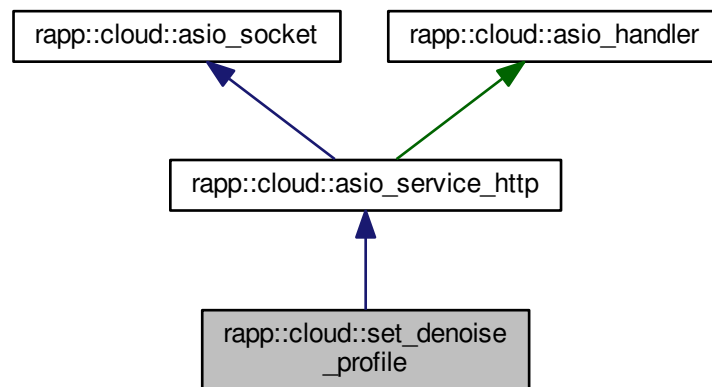
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerSync.py](#)

## 6.122 rapp::cloud::set\_denoise\_profile Class Reference

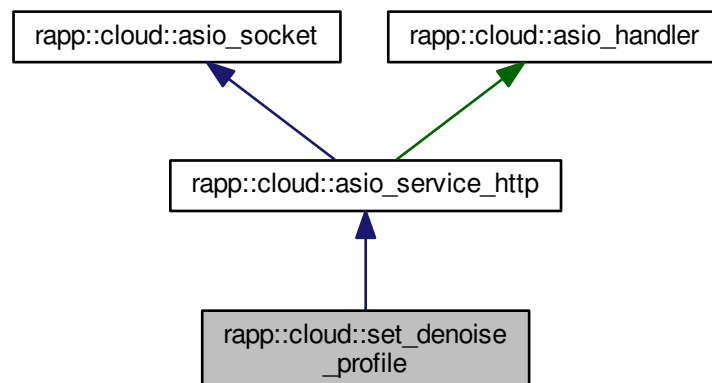
setting the denoising audio profile for speech recognition

```
#include <set_denoise_profile.hpp>
```

Inheritance diagram for rapp::cloud::set\_denoise\_profile:



Collaboration diagram for rapp::cloud::set\_denoise\_profile:





## Public Member Functions

- [set\\_denoise\\_profile](#) (const std::shared\_ptr< [rapp::object::audio](#) > file, const std::string user, const std::string token)  
*set a de-noising profile for a user (for speech recognition)*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform reply (error notifications only)*

## Additional Inherited Members

### 6.122.1 Detailed Description

setting the denoising audio profile for speech recognition

#### Version

0.6.0

#### Date

April 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file set\_denoise\_profile.hpp.

### 6.122.2 Constructor & Destructor Documentation

- 6.122.2.1 [rapp::cloud::set\\_denoise\\_profile::set\\_denoise\\_profile](#) ( const std::shared\_ptr< [rapp::object::audio](#) > file, const std::string user, const std::string token )

set a de-noising profile for a user (for speech recognition)

#### Note

This class does not return something, it only captures an error

#### Parameters

<i>file</i>	is the noise audio file used for de-noising
<i>user</i>	is the user denoise profile
<i>token</i>	is the rapp authentication token

Definition at line 23 of file set\_denoise\_profile.hpp.

### 6.122.3 Member Function Documentation

- 6.122.3.1 void [rapp::cloud::set\\_denoise\\_profile::handle\\_reply](#) ( std::string json ) `[private]`

handle platform reply (error notifications only)

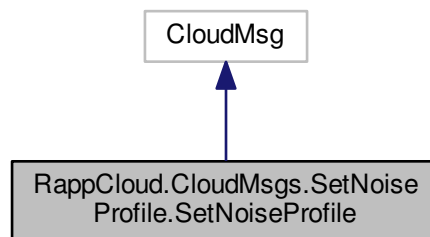
Definition at line 57 of file `set_denoise_profile.hpp`.

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

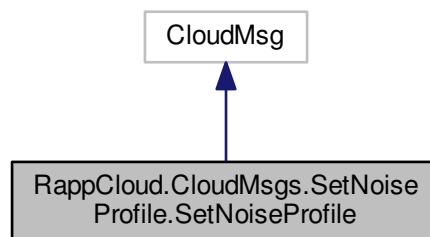
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/set_denoise_profile.hpp`

## 6.123 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile:



Collaboration diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.123.1 Detailed Description

Set Noise Profile Cloud Message object

Definition at line 11 of file SetNoiseProfile.py.

### 6.123.2 Constructor & Destructor Documentation

6.123.2.1 `def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.audio_source</a></li> <li>• <a href="#">Request.audiofile</a></li> </ul>
------------------------------	--

Definition at line 64 of file SetNoiseProfile.py.

### 6.123.3 Member Data Documentation

6.123.3.1 `RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.req`

Definition at line 74 of file SetNoiseProfile.py.

6.123.3.2 `RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.resp`

Definition at line 76 of file SetNoiseProfile.py.

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

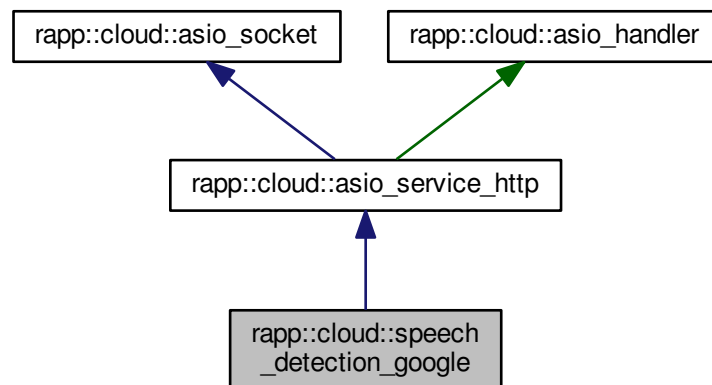
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py`

## 6.124 rapp::cloud::speech\_detection\_google Class Reference

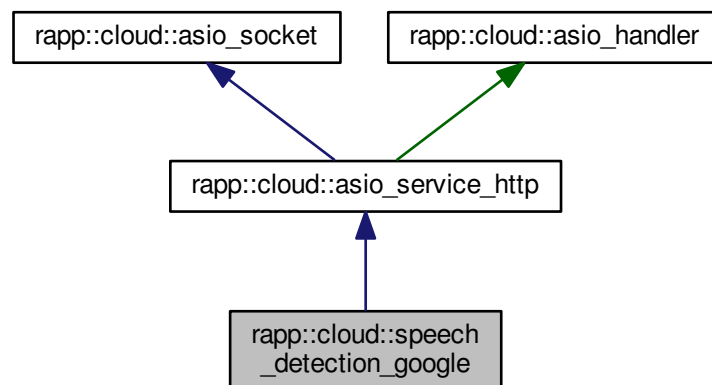
delegate speech-to-text to Google via RAPP

```
#include <speech_detection_google.hpp>
```

Inheritance diagram for `rapp::cloud::speech_detection_google`:



Collaboration diagram for `rapp::cloud::speech_detection_google`:



## Public Member Functions

- `speech_detection_google` (const std::shared\_ptr< [rapp::object::audio](#) > file, const std::string language, const std::string user, std::function< void(std::vector< std::string >, std::vector< std::string >)> callback)  
*construct the handler which will query the Google API*

## Private Member Functions

- void `handle_reply` (std::string json)  
*handle rapp-platform JSON reply*

## Private Attributes

- `std::function< void(std::vector< std::string >, std::vector< std::string >)>` [delegate\\_](#)

The callback called upon completion of receiving the detected words and alternatives.

## Additional Inherited Members

### 6.124.1 Detailed Description

delegate speech-to-text to Google via RAPP

#### Version

0.5.0

#### Date

January 2016

#### Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `speech_detection_google.hpp`.

### 6.124.2 Constructor & Destructor Documentation

6.124.2.1 `rapp::cloud::speech_detection_google::speech_detection_google ( const std::shared_ptr< rapp::object::audio > file, const std::string language, const std::string user, std::function< void(std::vector< std::string >, std::vector< std::string >)> callback )`

construct the handler which will query the Google API

#### Parameters

<i>file</i>	is the audio file used for speech recognition.
-------------	--

#### Note

the audio file should be an inheriting class (

#### See Also

[objects/audio/audio.hpp](#))

#### Parameters

<i>language</i>	defines the language used for speech recognition (e.g., 'en', 'gr', etc.)
<i>user</i>	is required so that denoising can take place

<i>callback</i>	is the functor/lambda/function pointer delegate that will receive the result
-----------------	--

Definition at line 24 of file `speech_detection_google.hpp`.

### 6.124.3 Member Function Documentation

6.124.3.1 `void rapp::cloud::speech_detection_google::handle_reply ( std::string json ) [private]`

handle rapp-platform JSON reply

Definition at line 56 of file `speech_detection_google.hpp`.

### 6.124.4 Member Data Documentation

6.124.4.1 `std::function<void(std::vector<std::string>, std::vector<std::string>)> rapp::cloud::speech_detection_google::delegate_ [private]`

The callback called upon completion of receiving the detected words and alternatives.

Definition at line 87 of file `speech_detection_google.hpp`.

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

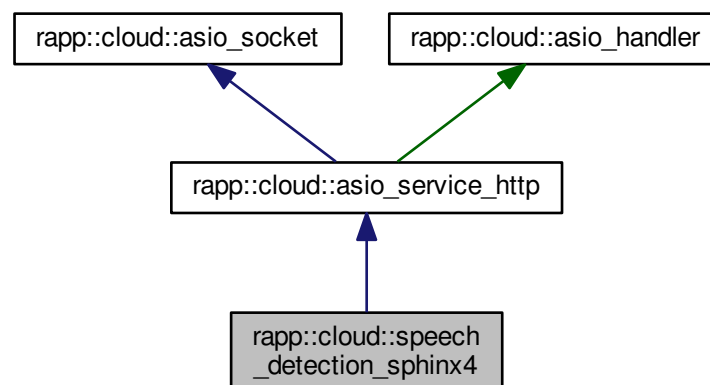
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/speech/speech\\_detection\\_google/speech\\_detection\\_google.hpp](#)

## 6.125 rapp::cloud::speech\_detection\_sphinx4 Class Reference

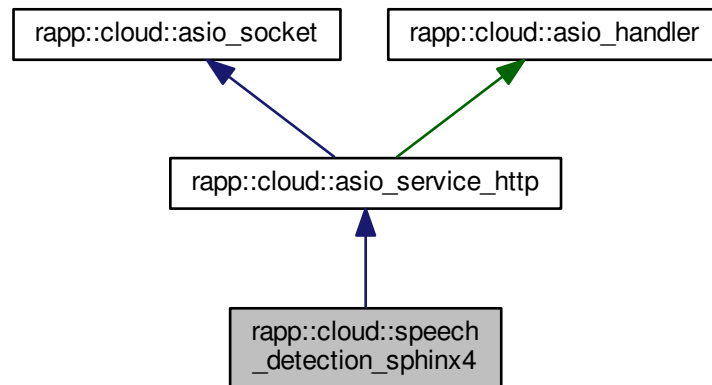
speech-to-text recognition using CMU sphinx4

```
#include <speech_detection_sphinx4.hpp>
```

Inheritance diagram for `rapp::cloud::speech_detection_sphinx4`:



Collaboration diagram for rapp::cloud::speech\_detection\_sphinx4:



## Public Member Functions

- [speech\\_detection\\_sphinx4](#) (const std::shared\_ptr< [rapp::object::audio](#) > file, const std::string language, const std::string user, const std::vector< std::string > grammar, const std::vector< std::string > words, const std::vector< std::string > sentences, std::function< void(std::vector< std::string > words)> callback, std::string token)

*construct a speechToText handler*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)

*handle the rappl-platform JSON reply*

## Private Attributes

- std::function< void(std::vector< std::string > words)> [delegate\\_](#)

*The callback called upon completion of receiving the detected words.*

## Additional Inherited Members

### 6.125.1 Detailed Description

speech-to-text recognition using CMU sphinx4

#### Version

0.6.0

**Date**

April 2016

**Author**

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file `speech_detection_sphinx4.hpp`.

## 6.125.2 Constructor & Destructor Documentation

**6.125.2.1** `rapp::cloud::speech_detection_sphinx4::speech_detection_sphinx4 ( const std::shared_ptr< rapp::object::audio > file, const std::string language, const std::string user, const std::vector< std::string > grammar, const std::vector< std::string > words, const std::vector< std::string > sentences, std::function< void(std::vector< std::string > words)> callback, std::string token )`

construct a speechToText handler

**Parameters**

<i>audio</i>	is the actual binary sound file
<i>language</i>	is the language used for speech to text
<i>grammar</i>	is the Grammars used in Spc2Txt
<i>user</i>	is the user token
<i>words</i>	will be searched for in the audio
<i>sentences</i>	will be under consideration
<i>callback</i>	will be executed once the rapp cloud has responded
<i>token</i>	is the rapp authentication token

Definition at line 27 of file `speech_detection_sphinx4.hpp`.

## 6.125.3 Member Function Documentation

**6.125.3.1** `void rapp::cloud::speech_detection_sphinx4::handle_reply ( std::string json )` `[private]`

handle the rappl-platform JSON reply

Definition at line 85 of file `speech_detection_sphinx4.hpp`.

## 6.125.4 Member Data Documentation

**6.125.4.1** `std::function<void(std::vector<std::string> words)> rapp::cloud::speech_detection_sphinx4::delegate_`  
`[private]`

The callback called upon completion of receiving the detected words.

Definition at line 113 of file `speech_detection_sphinx4.hpp`.

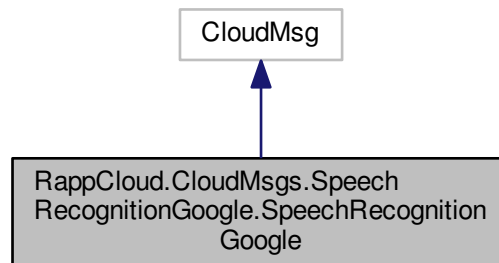
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/speech_detection_sphinx4.hpp`

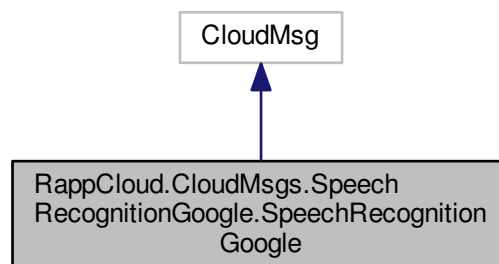


## 6.126 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.126.1 Detailed Description

Speech Recognition Google Cloud Message object

Definition at line 11 of file SpeechRecognitionGoogle.py.

### 6.126.2 Constructor & Destructor Documentation

6.126.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.audio_source</a></li> <li>• <a href="#">Request.audiofile</a></li> <li>• <a href="#">Request.language</a></li> </ul>
------------------------------	--

Definition at line 76 of file SpeechRecognitionGoogle.py.

### 6.126.3 Member Data Documentation

6.126.3.1 `RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.req`

Definition at line 87 of file SpeechRecognitionGoogle.py.

6.126.3.2 `RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.resp`

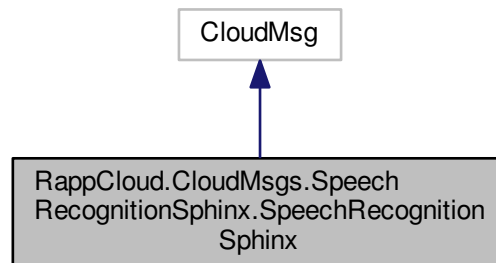
Definition at line 89 of file SpeechRecognitionGoogle.py.

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

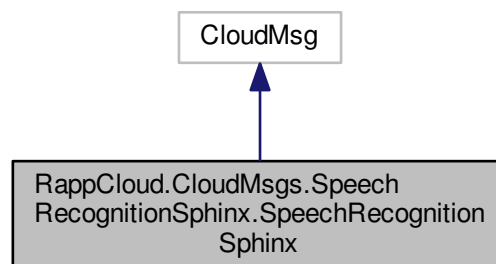
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionGoogle.py](#)

## 6.127 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx:



### Classes

- class [Request](#)
- class [Response](#)

### Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

### Public Attributes

- [req](#)
- [resp](#)

### 6.127.1 Detailed Description

Speech Recognition Sphinx4 Cloud Message object

Definition at line 11 of file SpeechRecognitionSphinx.py.

### 6.127.2 Constructor & Destructor Documentation

#### 6.127.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	<p>- Keyword arguments. Apply values to the request attributes.</p> <ul style="list-style-type: none"><li>• <a href="#">Request.audio_source</a></li><li>• <a href="#">Request.audiofile</a></li><li>• <a href="#">Request.language</a></li><li>• <a href="#">Request.words</a></li><li>• <a href="#">Request.sentences</a></li><li>• <a href="#">Request.grammar</a></li></ul>
------------------------------	---

Definition at line 82 of file SpeechRecognitionSphinx.py.

### 6.127.3 Member Data Documentation

#### 6.127.3.1 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.req`

Definition at line 96 of file SpeechRecognitionSphinx.py.

#### 6.127.3.2 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.resp`

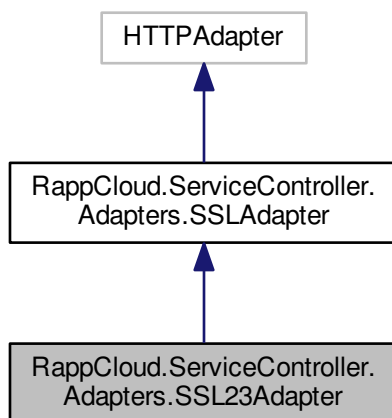
Definition at line 98 of file SpeechRecognitionSphinx.py.

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

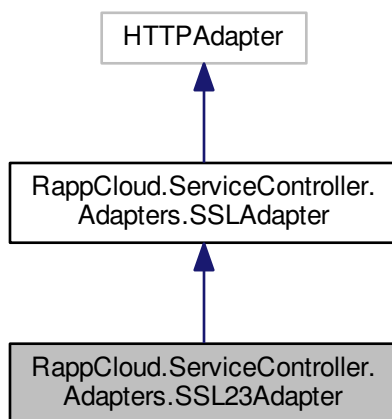
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py](#)

## 6.128 RappCloud.ServiceController.Adapters.SSL23Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.SSL23Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.SSL23Adapter:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)

### Additional Inherited Members

### 6.128.1 Detailed Description

SSLv2\_3 Default transport Adapter

Definition at line 167 of file Adapters.py.

### 6.128.2 Constructor & Destructor Documentation

6.128.2.1 `def RappCloud.ServiceController.Adapters.SSL23Adapter.__init__( self, kwargs )`

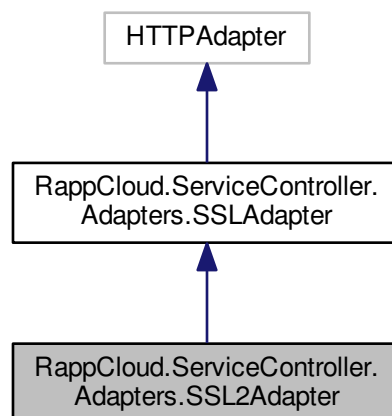
Definition at line 169 of file Adapters.py.

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

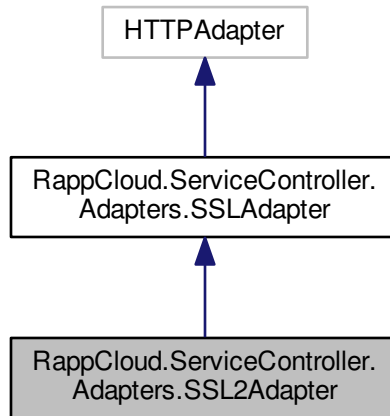
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py](/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py)

## 6.129 RappCloud.ServiceController.Adapters.SSL2Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.SSL2Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.SSL2Adapter:



## Public Member Functions

- `def \_\_init\_\_`

## Additional Inherited Members

### 6.129.1 Detailed Description

SSLv2 Default transport Adapter

Definition at line 155 of file Adapters.py.

### 6.129.2 Constructor & Destructor Documentation

6.129.2.1 `def RappCloud.ServiceController.Adapters.SSL2Adapter.__init__( self, kwargs )`

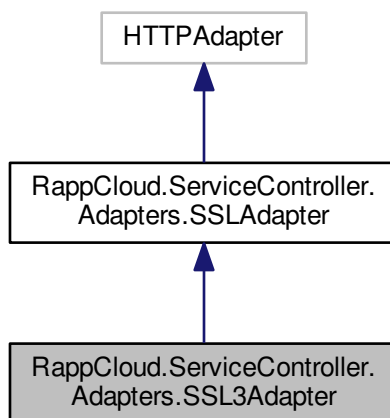
Definition at line 157 of file Adapters.py.

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

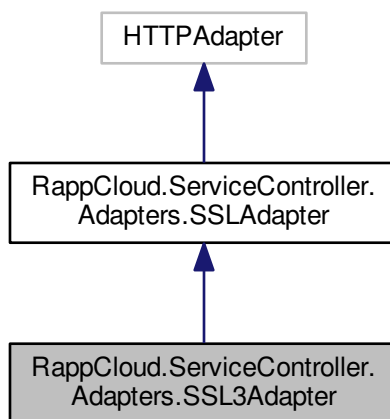
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py`

## 6.130 RappCloud.ServiceController.Adapters.SSL3Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.SSL3Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.SSL3Adapter:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)

### Additional Inherited Members



### 6.130.1 Detailed Description

SSLv3 Default transport Adapter

Definition at line 161 of file Adapters.py.

### 6.130.2 Constructor & Destructor Documentation

6.130.2.1 `def RappCloud.ServiceController.Adapters.SSL3Adapter.__init__( self, kwargs )`

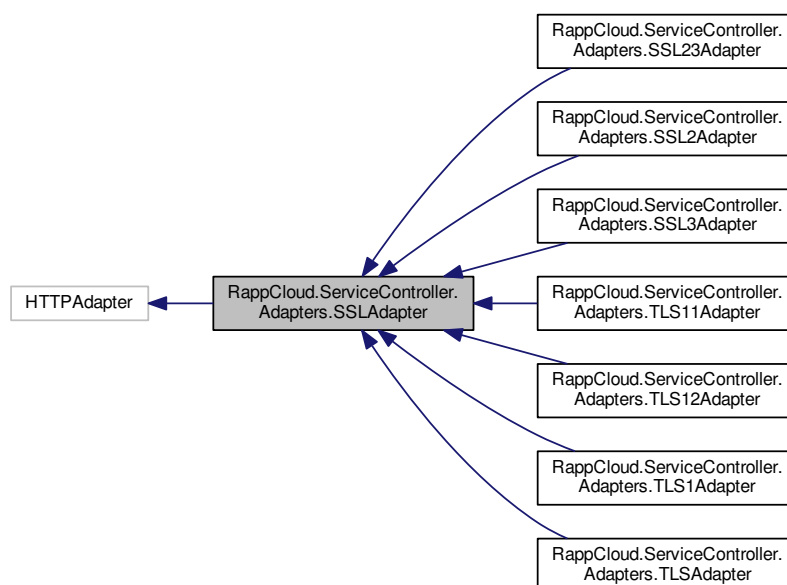
Definition at line 163 of file Adapters.py.

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

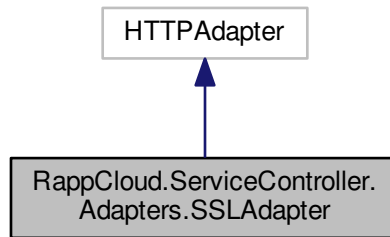
- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py](/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py)

## 6.131 RappCloud.ServiceController.Adapters.SSLAdapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.SSLAdapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.SSLAdapter:



### Public Member Functions

- def `__init__`
- def `init_poolmanager`

### Public Attributes

- `poolmanager`
- `ssl_version`

#### 6.131.1 Detailed Description

SSL Default transport Adapter

Definition at line 117 of file Adapters.py.

#### 6.131.2 Constructor & Destructor Documentation

6.131.2.1 `def RappCloud.ServiceController.Adapters.SSLAdapter.__init__( self, ssl_version=None, kwargs )`

Definition at line 119 of file Adapters.py.

#### 6.131.3 Member Function Documentation

6.131.3.1 `def RappCloud.ServiceController.Adapters.SSLAdapter.init_poolmanager( self, connections, maxsize, block=False )`

Definition at line 124 of file Adapters.py.

#### 6.131.4 Member Data Documentation

6.131.4.1 `RappCloud.ServiceController.Adapters.SSLAdapter.poolmanager`

Definition at line 125 of file Adapters.py.

#### 6.131.4.2 RappCloud.ServiceController.Adapters.SSLAdapter.ssl\_version

Definition at line 120 of file Adapters.py.

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

- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py](#)

## 6.132 RappCloud.ServiceController.Adapters.SSLDef Class Reference

### Static Public Attributes

- [SSLv2](#) = None
- [SSLv2\\_3](#) = None
- [SSLv3](#) = None
- [TLSv1](#) = None
- [TLSv1\\_1](#) = None
- [TLSv1\\_2](#) = None

### 6.132.1 Detailed Description

SSL/TLS Definitions namespace

SSL/TLS protocol versions definitions

Definition at line 39 of file Adapters.py.

### 6.132.2 Member Data Documentation

#### 6.132.2.1 RappCloud.ServiceController.Adapters.SSLDef.SSLv2 = None [static]

Definition at line 47 of file Adapters.py.

#### 6.132.2.2 RappCloud.ServiceController.Adapters.SSLDef.SSLv2\_3 = None [static]

Definition at line 49 of file Adapters.py.

#### 6.132.2.3 RappCloud.ServiceController.Adapters.SSLDef.SSLv3 = None [static]

Definition at line 48 of file Adapters.py.

#### 6.132.2.4 RappCloud.ServiceController.Adapters.SSLDef.TLSv1 = None [static]

Definition at line 44 of file Adapters.py.

#### 6.132.2.5 RappCloud.ServiceController.Adapters.SSLDef.TLSv1\_1 = None [static]

Definition at line 45 of file Adapters.py.

6.132.2.6 RappCloud.ServiceController.Adapters.SSLDef.TLSv1\_2 = None [static]

Definition at line 46 of file Adapters.py.

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

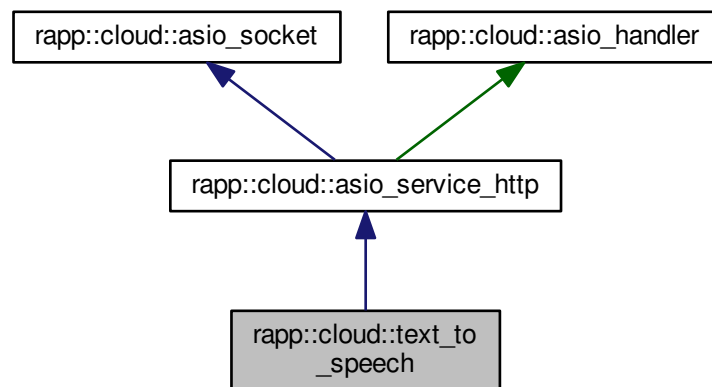
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/ServiceController/[Adapters.py](#)

## 6.133 rapp::cloud::text\_to\_speech Class Reference

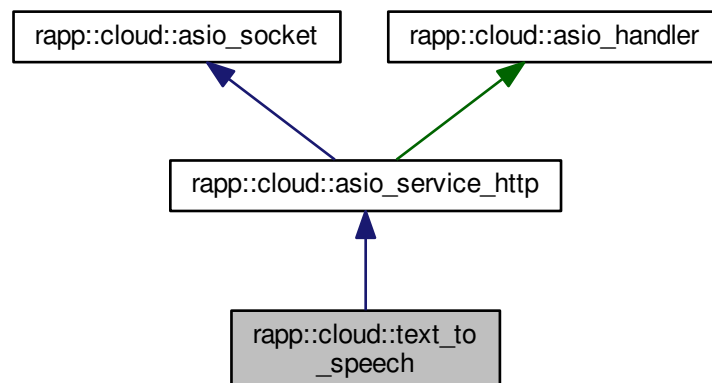
request speech audio from text

```
#include <text_to_speech.hpp>
```

Inheritance diagram for rapp::cloud::text\_to\_speech:



Collaboration diagram for rapp::cloud::text\_to\_speech:



## Public Types

- typedef  
[rapp::object::microphone\\_wav wav\\_file](#)

## Public Member Functions

- [text\\_to\\_speech](#) (const std::string text, const std::string language, const std::string token, std::function< void(std::unique\_ptr< [wav\\_file](#) >)> callback)  
*construct handler which will request speech audio from text*

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::unique\_ptr< [wav\\_file](#) > wav)> [delegate\\_](#)

## Additional Inherited Members

### 6.133.1 Detailed Description

request speech audio from text

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas [a.gkiokas@ortelio.co.uk](mailto:a.gkiokas@ortelio.co.uk)

Definition at line 13 of file text\_to\_speech.hpp.

### 6.133.2 Member Typedef Documentation

#### 6.133.2.1 typedef rapp::object::microphone\_wav rapp::cloud::text\_to\_speech::wav\_file

Definition at line 16 of file text\_to\_speech.hpp.

### 6.133.3 Constructor & Destructor Documentation

#### 6.133.3.1 rapp::cloud::text\_to\_speech::text\_to\_speech ( const std::string text, const std::string language, const std::string token, std::function< void(std::unique\_ptr< [wav\\_file](#) >)> callback )

construct handler which will request speech audio from text

## Parameters

<i>text</i>	is the text to be converted to audio
<i>language</i>	is language will receive the speech audio object

Definition at line 23 of file text\_to\_speech.hpp.

#### 6.133.4 Member Function Documentation

6.133.4.1 `void rapp::cloud::text_to_speech::handle_reply ( std::string json )` `[private]`

handle platform's JSON reply

Definition at line 45 of file text\_to\_speech.hpp.

#### 6.133.5 Member Data Documentation

6.133.5.1 `std::function<void(std::unique_ptr<wav_file> wav)> rapp::cloud::text_to_speech::delegate_` `[private]`

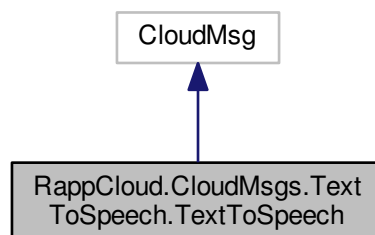
Definition at line 79 of file text\_to\_speech.hpp.

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

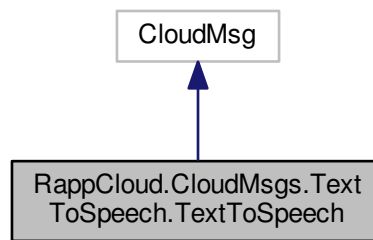
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/speech/text\\_to\\_speech/text\\_to\\_speech.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/text_to_speech.hpp)

### 6.134 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech Class Reference

Inheritance diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech:



Collaboration diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- def [\\_\\_init\\_\\_](#)  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.134.1 Detailed Description

Text-To-Speech (TTS) Cloud Message object

Definition at line 14 of file TextToSpeech.py.

### 6.134.2 Constructor & Destructor Documentation

6.134.2.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.text</a></li> <li>• <a href="#">Request.language</a></li> </ul>
------------------------------	---

Definition at line 108 of file TextToSpeech.py.

### 6.134.3 Member Data Documentation

#### 6.134.3.1 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.req

Definition at line 118 of file TextToSpeech.py.

#### 6.134.3.2 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.resp

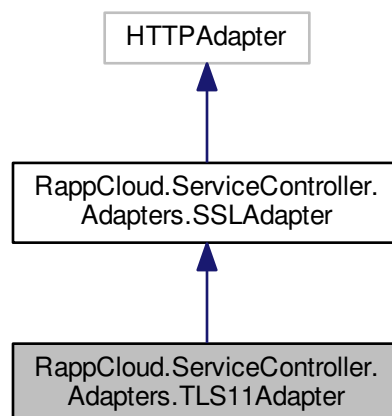
Definition at line 120 of file TextToSpeech.py.

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

- [/home/travis/rapp\\_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py](#)

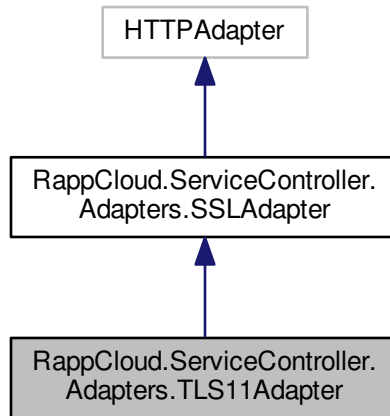
## 6.135 RappCloud.ServiceController.Adapters.TLS11Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.TLS11Adapter:





Collaboration diagram for RappCloud.ServiceController.Adapters.TLS11Adapter:



## Public Member Functions

- `def \_\_init\_\_`

## Additional Inherited Members

### 6.135.1 Detailed Description

TLsv1.1 Default transport Adapter

Definition at line 143 of file Adapters.py.

### 6.135.2 Constructor & Destructor Documentation

6.135.2.1 `def RappCloud.ServiceController.Adapters.TLS11Adapter.__init__( self, kwargs )`

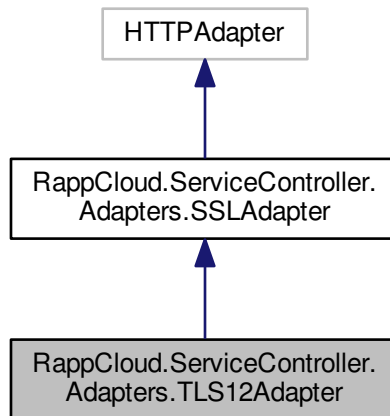
Definition at line 145 of file Adapters.py.

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

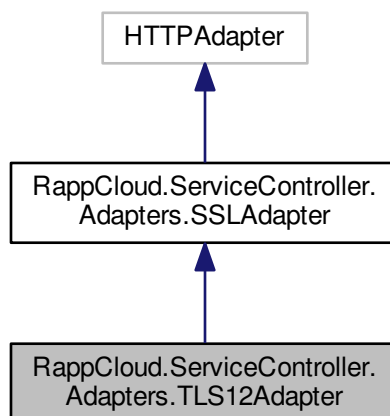
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py`

## 6.136 RappCloud.ServiceController.Adapters.TLS12Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.TLS12Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.TLS12Adapter:



### Public Member Functions

- `def \_\_init\_\_`

### Additional Inherited Members

### 6.136.1 Detailed Description

TLSSv1.2 Default transport Adapter

Definition at line 149 of file Adapters.py.

### 6.136.2 Constructor & Destructor Documentation

6.136.2.1 `def RappCloud.ServiceController.Adapters.TLS12Adapter.__init__( self, kwargs )`

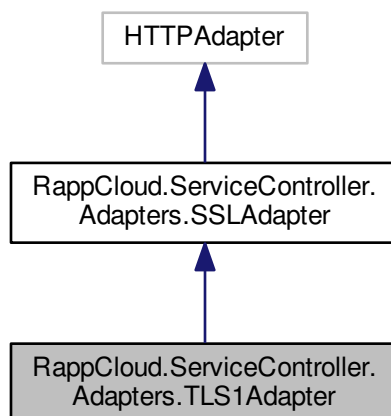
Definition at line 151 of file Adapters.py.

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

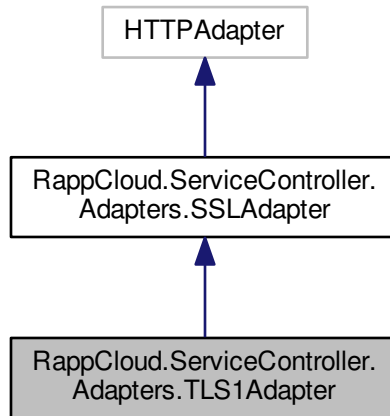
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py`

## 6.137 RappCloud.ServiceController.Adapters.TLS1Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.TLS1Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.TLS1Adapter:



## Public Member Functions

- `def \_\_init\_\_`

## Additional Inherited Members

### 6.137.1 Detailed Description

TLSSv1 Default transport Adapter

Definition at line 137 of file Adapters.py.

### 6.137.2 Constructor & Destructor Documentation

6.137.2.1 `def RappCloud.ServiceController.Adapters.TLS1Adapter.__init__( self, kwargs )`

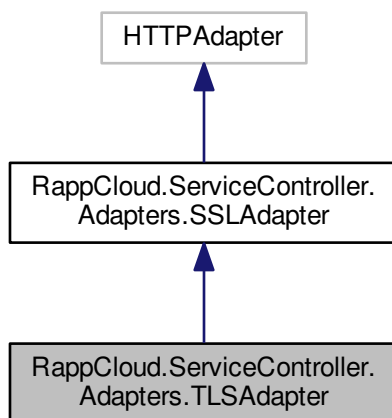
Definition at line 139 of file Adapters.py.

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

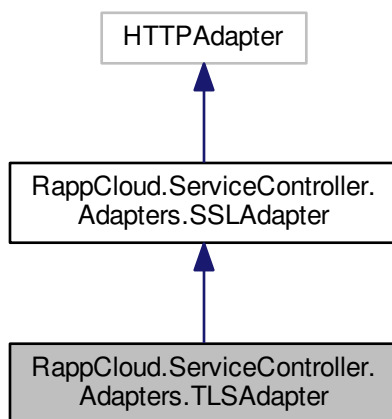
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py`

## 6.138 RappCloud.ServiceController.Adapters.TLSAdapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.TLSAdapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.TLSAdapter:



### Public Member Functions

- `def \_\_init\_\_`

### Additional Inherited Members

### 6.138.1 Detailed Description

TLS Default transport Adapter

Definition at line 131 of file Adapters.py.

### 6.138.2 Constructor & Destructor Documentation

#### 6.138.2.1 `def RappCloud.ServiceController.Adapters.TLSAdapter.__init__( self, kwargs )`

Definition at line 133 of file Adapters.py.

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

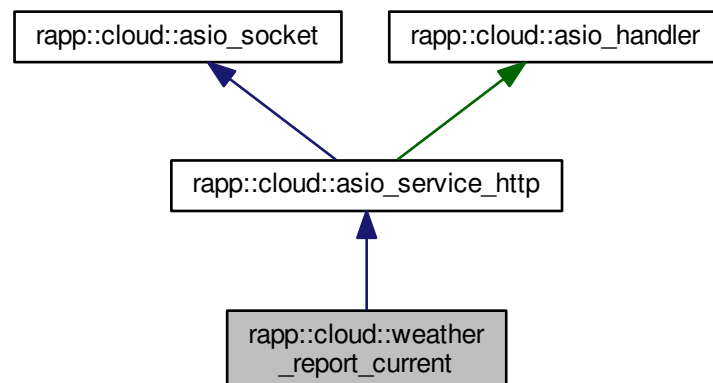
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py`

## 6.139 `rapp::cloud::weather_report_current` Class Reference

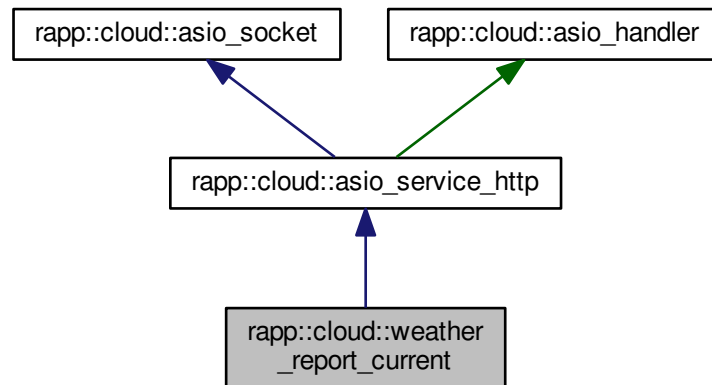
get current weather report

```
#include <weather_report.hpp>
```

Inheritance diagram for `rapp::cloud::weather_report_current`:



Collaboration diagram for rapp::cloud::weather\_report\_current:



## Public Member Functions

- [weather\\_report\\_current](#) (const std::string city, const std::string weather\_reporter, const unsigned int metric, const std::string token, std::function< void(std::string)> callback)

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::string)> [delegate\\_](#)

## Additional Inherited Members

### 6.139.1 Detailed Description

get current weather report

Version

0.6.0

Date

May 2016

Definition at line 13 of file weather\_report.hpp.

## 6.139.2 Constructor & Destructor Documentation

6.139.2.1 `rapp::cloud::weather_report_current::weather_report_current ( const std::string city, const std::string weather_reporter, const unsigned int metric, const std::string token, std::function< void(std::string)> callback )`



## Parameters

<i>city</i>	location for the weather report query
<i>weather_reporter</i>	the weather API to use
<i>metric</i>	the return value type
<i>token</i>	the rapp auth token
<i>callback</i>	receives a JSON reply

Definition at line 23 of file weather\_report.hpp.

## 6.139.3 Member Function Documentation

6.139.3.1 void rapp::cloud::weather\_report\_current::handle\_reply ( std::string json ) [private]

handle platform's JSON reply

Definition at line 47 of file weather\_report.hpp.

## 6.139.4 Member Data Documentation

6.139.4.1 std::function<void(std::string)> rapp::cloud::weather\_report\_current::delegate\_ [private]

Definition at line 53 of file weather\_report.hpp.

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

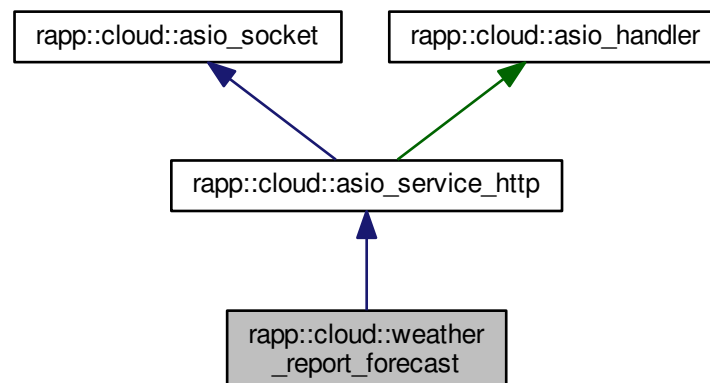
- /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/weather\_report/weather\_report.hpp

## 6.140 rapp::cloud::weather\_report\_forecast Class Reference

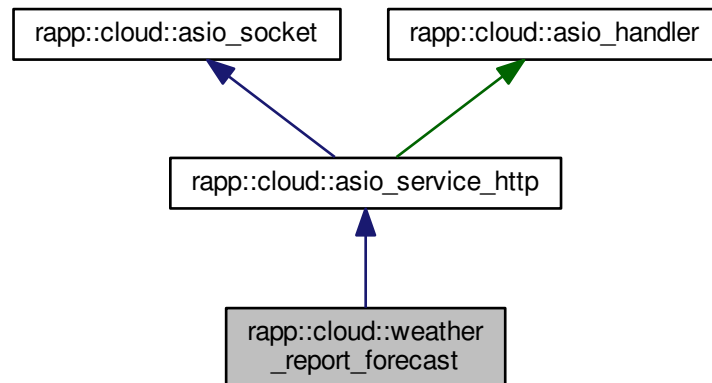
get weather forecast

```
#include <weather_report.hpp>
```

Inheritance diagram for rapp::cloud::weather\_report\_forecast:



Collaboration diagram for `rapp::cloud::weather_report_forecast`:



## Public Member Functions

- [weather\\_report\\_forecast](#) (const std::string city, const std::string weather\_reporter, const unsigned int metric, const std::string token, std::function< void(std::string)> callback)

## Private Member Functions

- void [handle\\_reply](#) (std::string json)  
*handle platform's JSON reply*

## Private Attributes

- std::function< void(std::string)> [delegate\\_](#)

## Additional Inherited Members

### 6.140.1 Detailed Description

get weather forecast

Version

0.6.0

Date

May 2016

Definition at line 62 of file `weather_report.hpp`.

## 6.140.2 Constructor & Destructor Documentation

- 6.140.2.1 rapp::cloud::weather\_report\_forecast::weather\_report\_forecast ( const std::string *city*, const std::string *weather\_reporter*, const unsigned int *metric*, const std::string *token*, std::function< void(std::string)> *callback* )

## Parameters

<i>city</i>	location of the weather forecast query
<i>weather_reporter</i>	weather API being queried
<i>metric</i>	return value units
<i>token</i>	the rapp auth token
<i>callback</i>	receives a JSON reply

Definition at line 72 of file weather\_report.hpp.

### 6.140.3 Member Function Documentation

6.140.3.1 `void rapp::cloud::weather_report_forecast::handle_reply ( std::string json ) [private]`

handle platform's JSON reply

Definition at line 96 of file weather\_report.hpp.

### 6.140.4 Member Data Documentation

6.140.4.1 `std::function<void(std::string)> rapp::cloud::weather_report_forecast::delegate_ [private]`

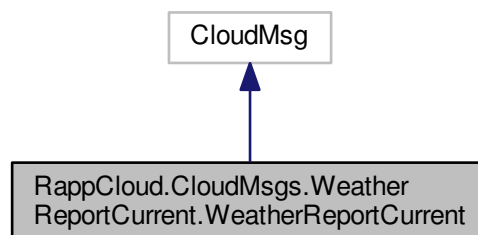
Definition at line 102 of file weather\_report.hpp.

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

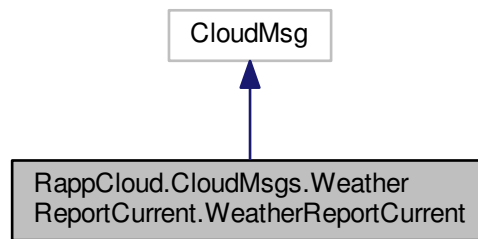
- [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/weather\\_report/weather\\_report.hpp](/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp)

## 6.141 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- def `__init__`  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.141.1 Detailed Description

Weather Report Current Cloud Message object

Definition at line 11 of file WeatherReportCurrent.py.

### 6.141.2 Constructor & Destructor Documentation

6.141.2.1 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.__init__( self, kwargs )`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> <li>• <a href="#">Request.city</a></li> <li>• <a href="#">Request.weather_reporter</a></li> <li>• <a href="#">Request.metric</a></li> </ul>
-----------------------	---

Definition at line 97 of file WeatherReportCurrent.py.

### 6.141.3 Member Data Documentation

#### 6.141.3.1 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.req

Definition at line 108 of file WeatherReportCurrent.py.

#### 6.141.3.2 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.resp

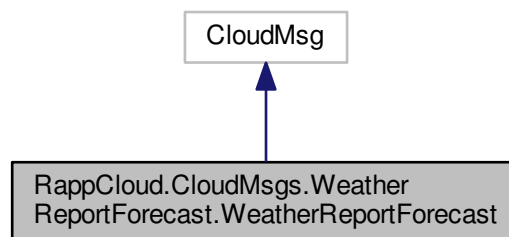
Definition at line 110 of file WeatherReportCurrent.py.

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

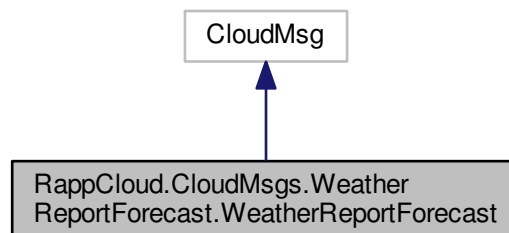
- /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportCurrent.py](#)

## 6.142 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast:



## Classes

- class [Request](#)
- class [Response](#)

## Public Member Functions

- def `__init__`  
*Constructor.*

## Public Attributes

- [req](#)
- [resp](#)

### 6.142.1 Detailed Description

Weather Report Forecast Cloud Message object

Definition at line 11 of file WeatherReportForecast.py.

### 6.142.2 Constructor & Destructor Documentation

6.142.2.1 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.__init__( self, kwargs )`

Constructor.

Parameters

<b><code>**kwargs</code></b>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"><li>• <a href="#">Request.city</a></li><li>• <a href="#">Request.weather_reporter</a></li><li>• <a href="#">Request.metric</a></li></ul>
------------------------------	---

Definition at line 74 of file WeatherReportForecast.py.

### 6.142.3 Member Data Documentation

6.142.3.1 `RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.req`

Definition at line 85 of file WeatherReportForecast.py.

6.142.3.2 `RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.resp`

Definition at line 87 of file WeatherReportForecast.py.

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

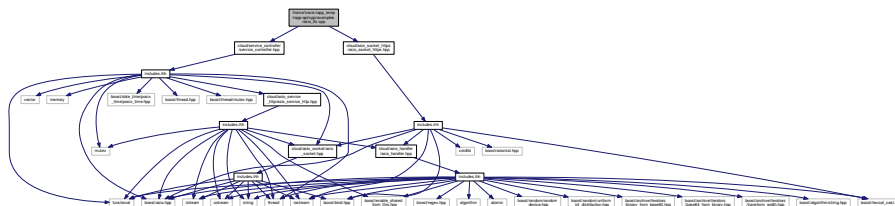
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportForecast.py`





## File Documentation

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/asio_socket_https/asio_socket_https.hpp"
Include dependency graph for asio_tls.cpp:
```



- int **main** (int argc, char \*argv[])

#### 7.1.1.1 int main ( int argc, char \* argv[] )

TODO: test under linux only

Definition at line 6 of file asio\_tls.cpp.

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/vision/face_detection/face_detection.hpp"
#include "objects/picture/picture.hpp"
```



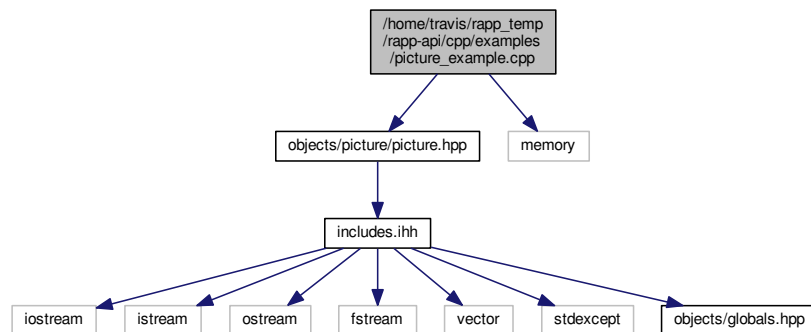
Definition at line 7 of file ontology\_example.cpp.

## 7.5 /home/travis/rapp\_temp/rapp-api/cpp/examples/picture\_example.cpp File Reference

```
#include "objects/picture/picture.hpp"
```

```
#include <memory>
```

Include dependency graph for picture\_example.cpp:



### Functions

- int [main](#) (int argc, char \*argv[])

#### 7.5.1 Function Documentation

##### 7.5.1.1 int main ( int argc, char \* argv[] )

Open a picture and load it into an object

Definition at line 6 of file picture\_example.cpp.

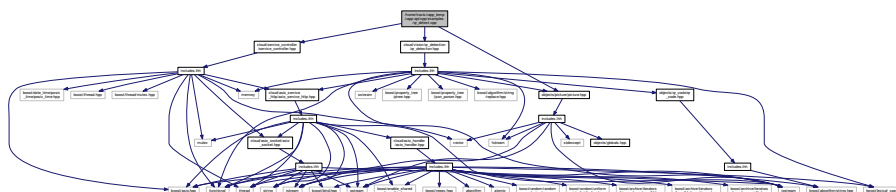
## 7.6 /home/travis/rapp\_temp/rapp-api/cpp/examples/qr\_detect.cpp File Reference

```
#include "cloud/service_controller/service_controller.hpp"
```

```
#include "cloud/vision/qr_detection/qr_detection.hpp"
```

```
#include "objects/picture/picture.hpp"
```

Include dependency graph for qr\_detect.cpp:





[illegible]

- `std::string` `load_jsjf` (const `std::string` filename)
- `int` `main` (int argc, char \*argv[])
- `template<class T >`  
`std::ostream & operator<<` (std::ostream &os, const std::vector< T > &v)

### 7.8.1.1 `std::string load_jsgf ( const std::string filename )`

### 7.8.1.2 `int main ( int argc, char * argv[] )`

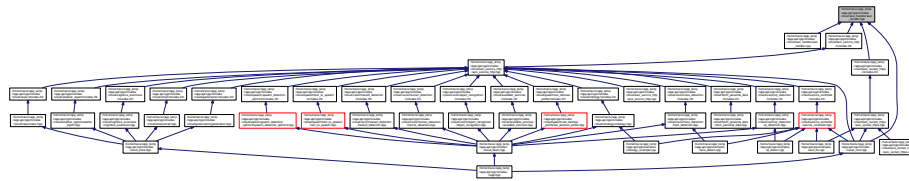
Definition at line 44 of file speech\_to\_text.cpp.

Definition at line 13 of file `speech_to_text.cpp`.

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/speech/text_to_speech/text_to_speech.hpp"
#include <boost/date_time/posix_time/posix_time.hpp>
#include <boost/thread/thread.hpp>
```



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::asio\\_handler](#)

*base class for asio handling, including helper methods and most protected members*

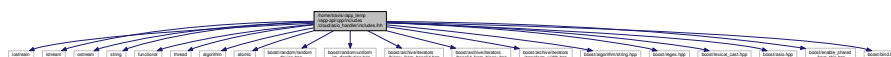
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

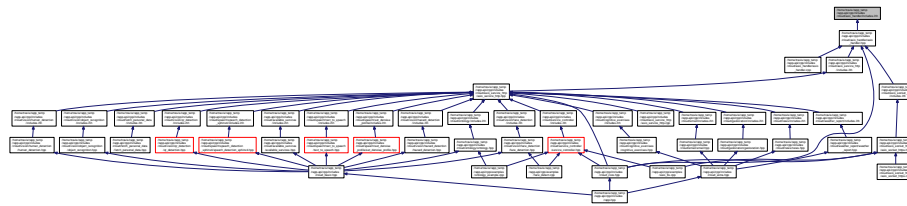
## 7.12 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/asio\_handler/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <string>
#include <functional>
#include <thread>
#include <algorithm>
#include <atomic>
#include <boost/random/random_device.hpp>
#include <boost/random/uniform_int_distribution.hpp>
#include <boost/archive/iterators/binary_from_base64.hpp>
#include <boost/archive/iterators/base64_from_binary.hpp>
#include <boost/archive/iterators/transform_width.hpp>
#include <boost/algorithm/string.hpp>
#include <boost/regex.hpp>
#include <boost/lexical_cast.hpp>
#include <boost/asio.hpp>
#include <boost/enable_shared_from_this.hpp>
#include <boost/bind.hpp>
```

Include dependency graph for includes.ihh:



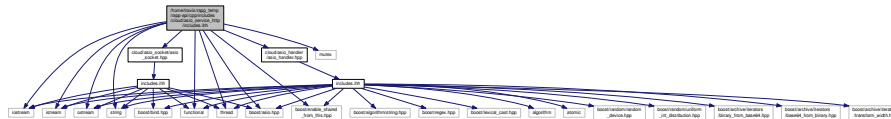
This graph shows which files directly or indirectly include this file:



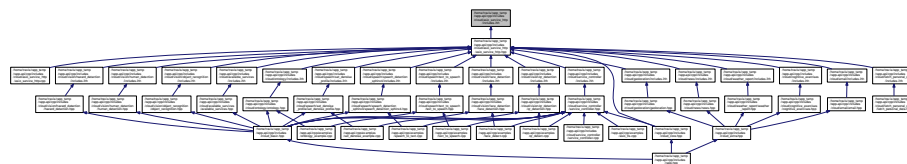
### 7.13 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/asio\_service\_http/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <string>
#include <functional>
#include <thread>
#include <mutex>
#include <boost/asio.hpp>
#include <boost/enable_shared_from_this.hpp>
#include "cloud/asio_socket/asio_socket.hpp"
#include "cloud/asio_handler/asio_handler.hpp"
```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:

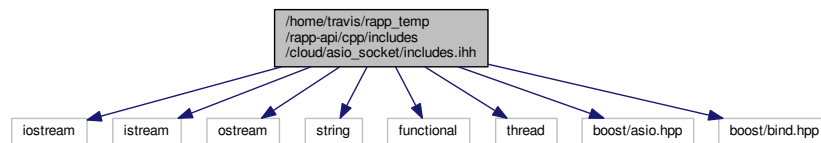


### 7.14 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/asio\_socket/includes.ihh File Reference

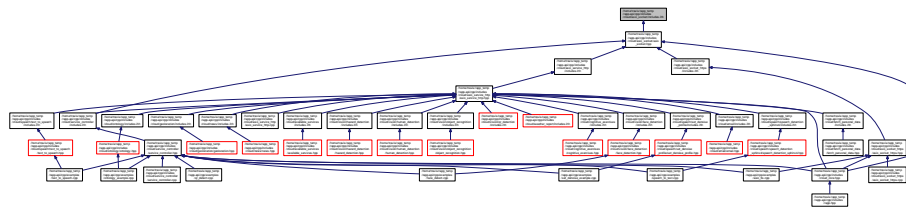
```
#include <iostream>
#include <istream>
#include <ostream>
#include <string>
#include <functional>
#include <thread>
#include <boost/asio.hpp>
#include <boost/bind.hpp>
```



Include dependency graph for includes.ihh:



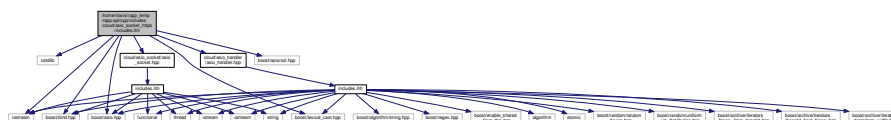
This graph shows which files directly or indirectly include this file:



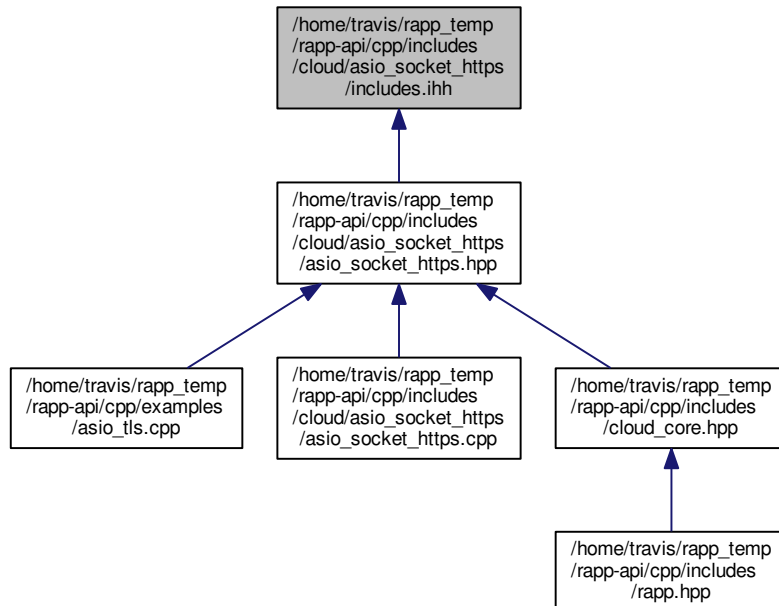
7.15 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/asio\_socket\_https/includes.ihh  
File Reference

```
#include <cstdlib>
#include <iostream>
#include <boost/bind.hpp>
#include <boost/asio.hpp>
#include <boost/asio/ssl.hpp>
#include <boost/lexical_cast.hpp>
#include "cloud/asio_socket/asio_socket.hpp"
#include "cloud/asio_handler/asio_handler.hpp"
```

Include dependency graph for includes.ihh:



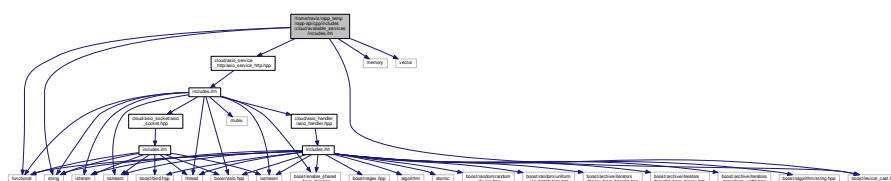
This graph shows which files directly or indirectly include this file:



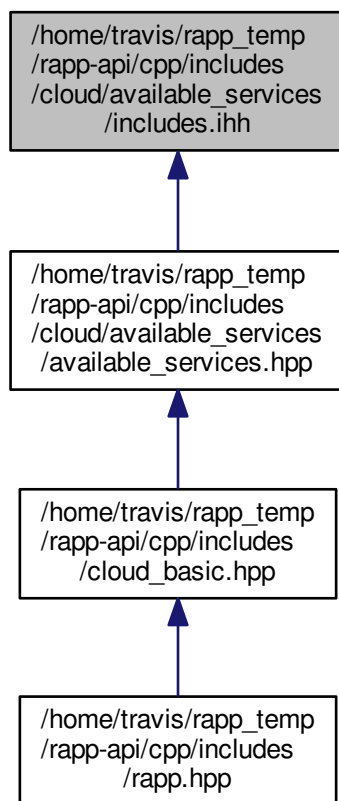
## 7.16 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/available\_services/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <string>
#include <vector>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>
```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



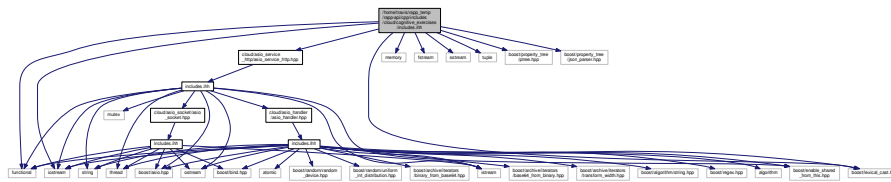
## 7.17 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/cognitive\_exercises/includes.ihh File Reference

```

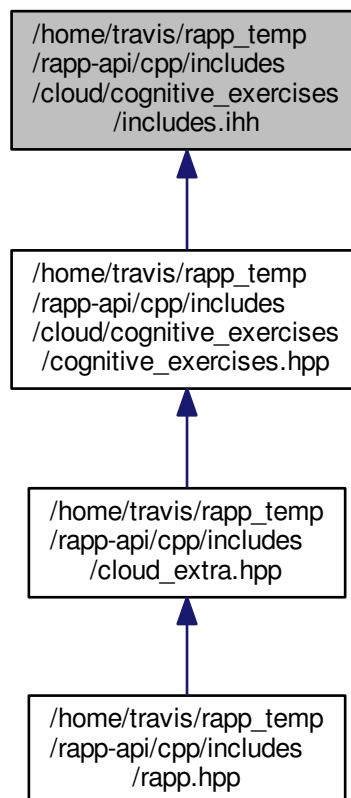
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"

```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



## 7.18 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/email/includes.ihh File Reference

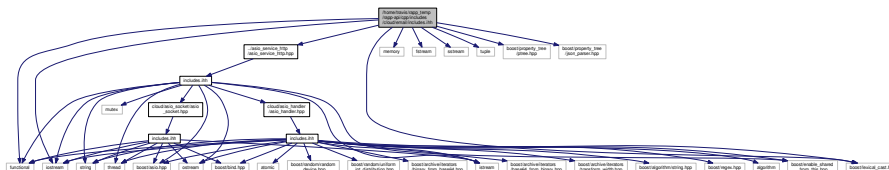
```
#include <functional>
```

```

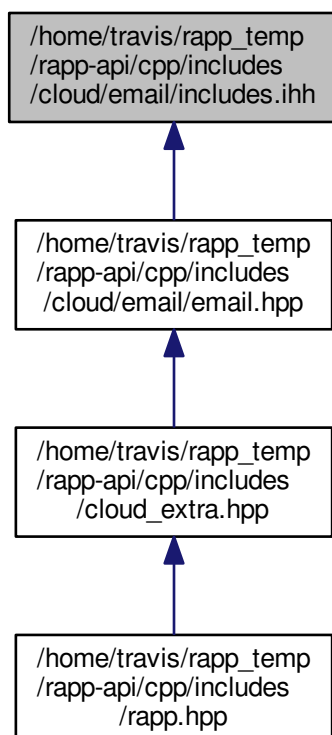
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "../asio_service_http/asio_service_http.hpp"

```

Include dependency graph for includes.ihh:

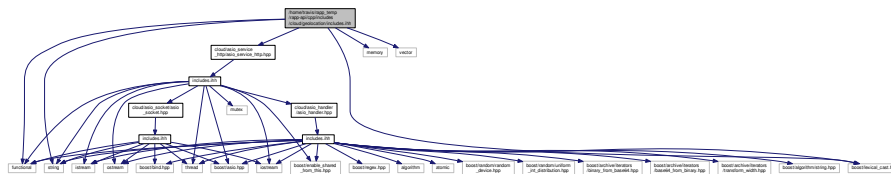


This graph shows which files directly or indirectly include this file:

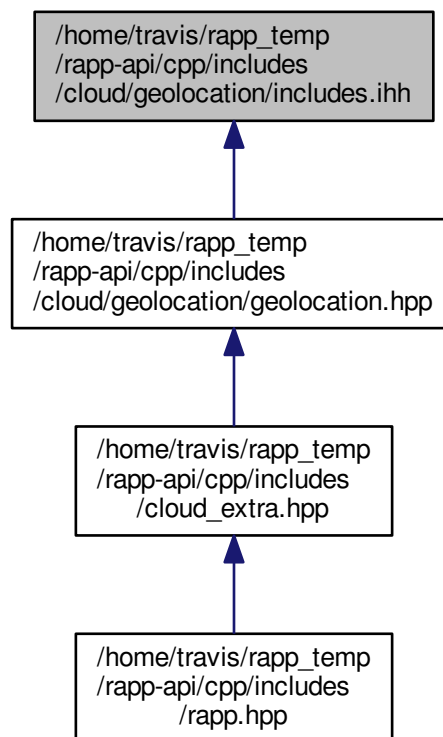




Include dependency graph for includes.ihh:

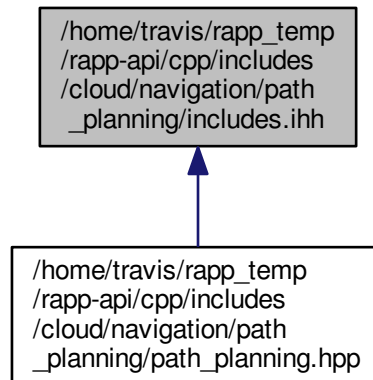


This graph shows which files directly or indirectly include this file:



## 7.21 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/navigation/path\_planning/includes.ihh File Reference

This graph shows which files directly or indirectly include this file:



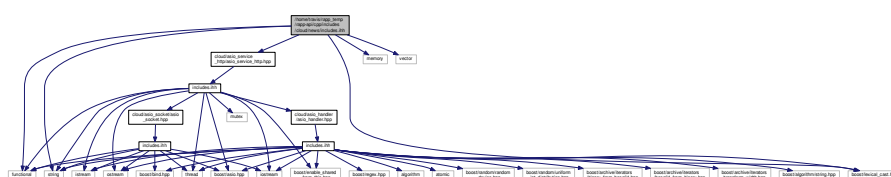
## 7.22 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/news/includes.ihh File Reference

```

#include <functional>
#include <memory>
#include <string>
#include <vector>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>

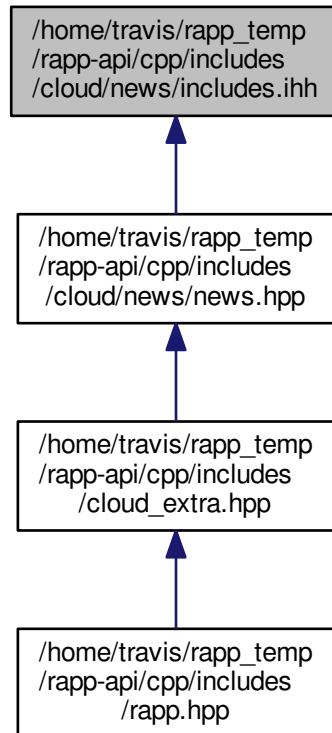
```

Include dependency graph for includes.ihh:





This graph shows which files directly or indirectly include this file:



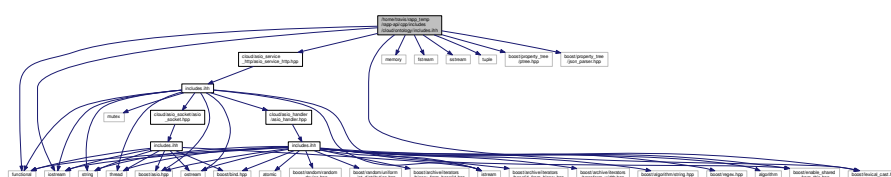
## 7.23 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/ontology/includes.ihh File Reference

```

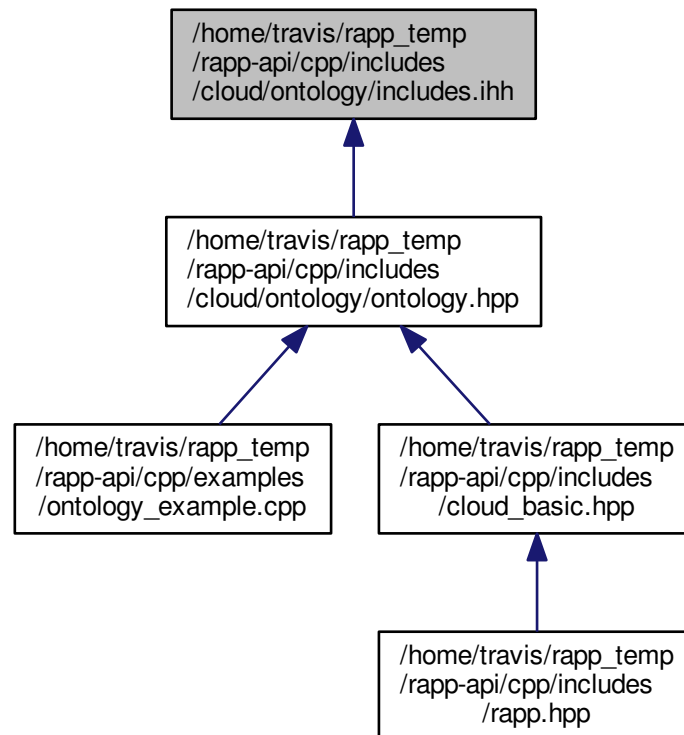
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"

```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



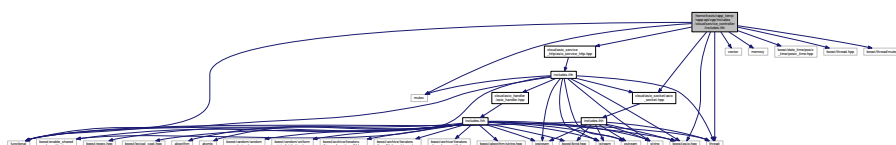
## 7.24 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/service\_controller/includes.ihh File Reference

```

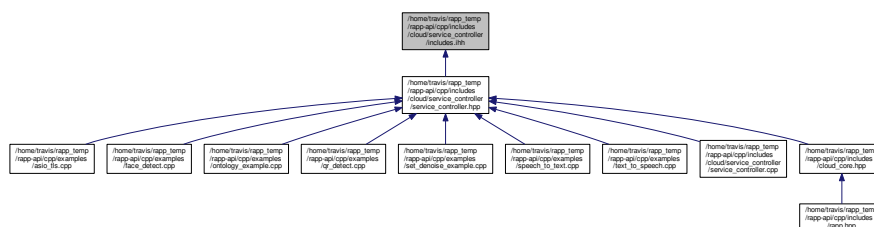
#include <thread>
#include <functional>
#include <vector>
#include <memory>
#include <mutex>
#include <boost/asio.hpp>
#include <boost/date_time/posix_time/posix_time.hpp>
#include <boost/thread.hpp>
#include <boost/thread/mutex.hpp>
#include "cloud/asio_socket/asio_socket.hpp"
#include "cloud/asio_service_http/asio_service_http.hpp"

```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:

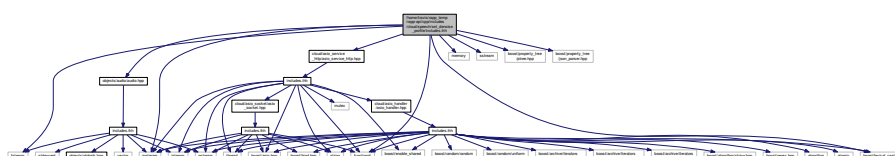


7.25 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/speech/set\_denoise\_profile/includes.ihh

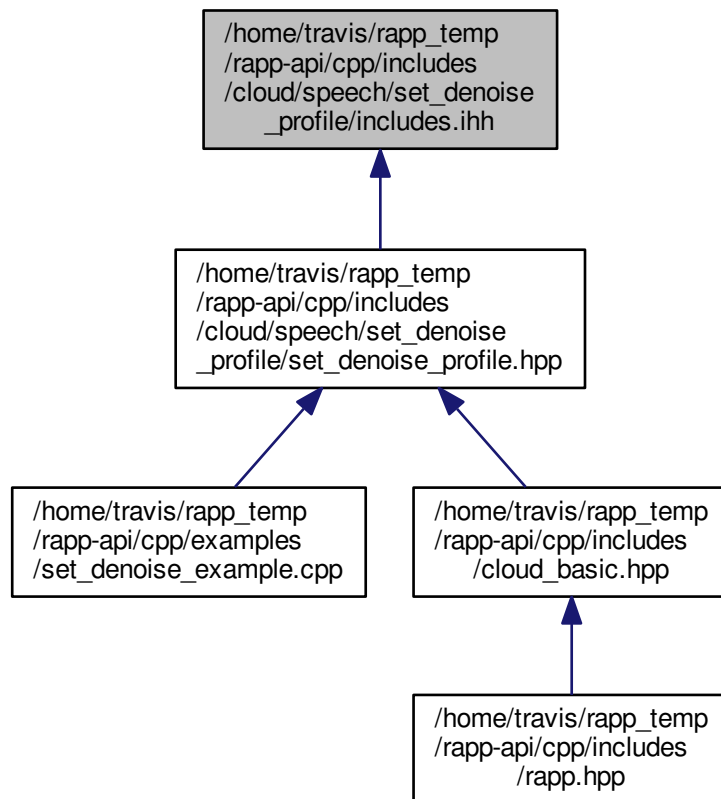
File Reference

```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/audio/audio.hpp"
```

Include dependency graph for includes.ihh:

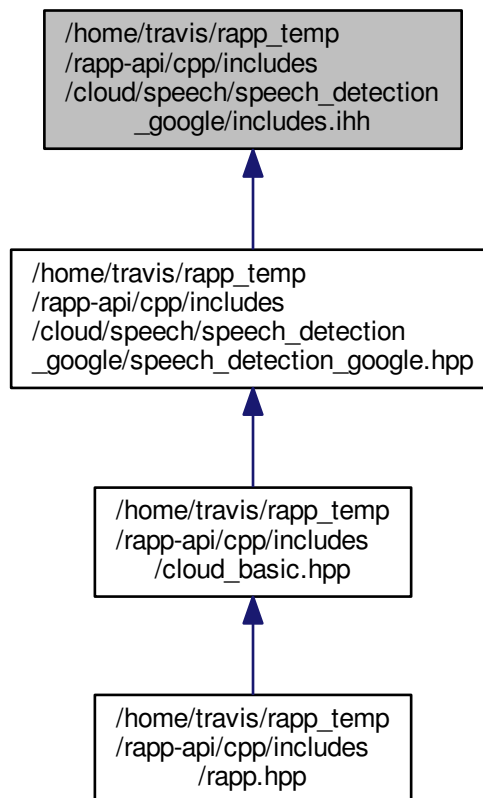


This graph shows which files directly or indirectly include this file:



## 7.26 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/speech/speech\_detection\_google/includes.ihh File Reference

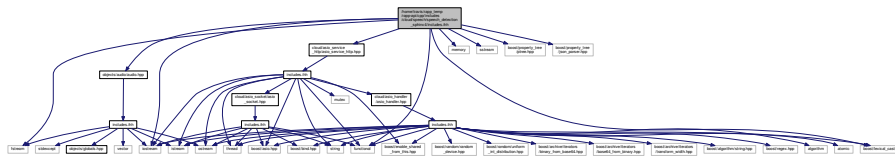
This graph shows which files directly or indirectly include this file:



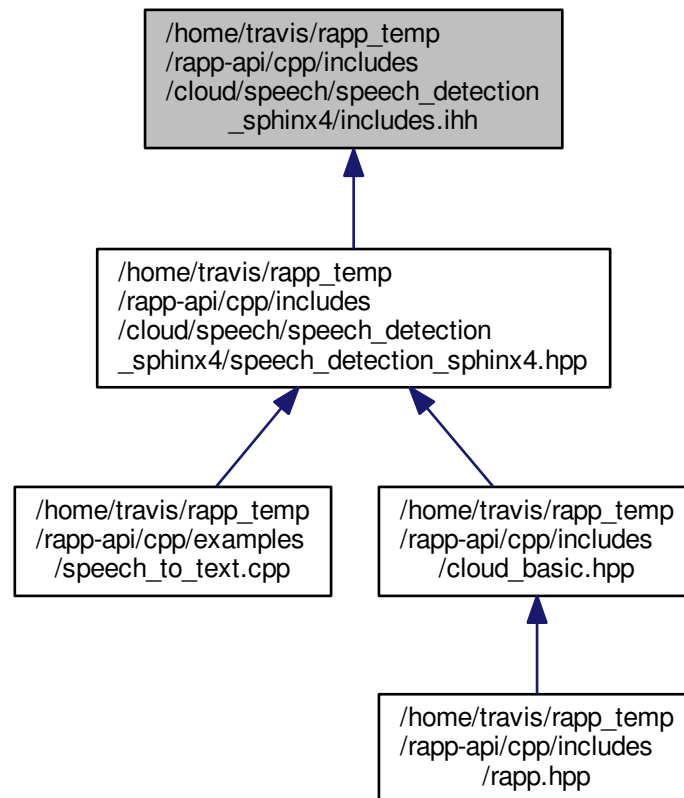
## 7.27 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/speech/speech\_detection\_sphinx4/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/audio/audio.hpp"
```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



## 7.28 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/speech/text\_to\_speech/includes.ihh File Reference

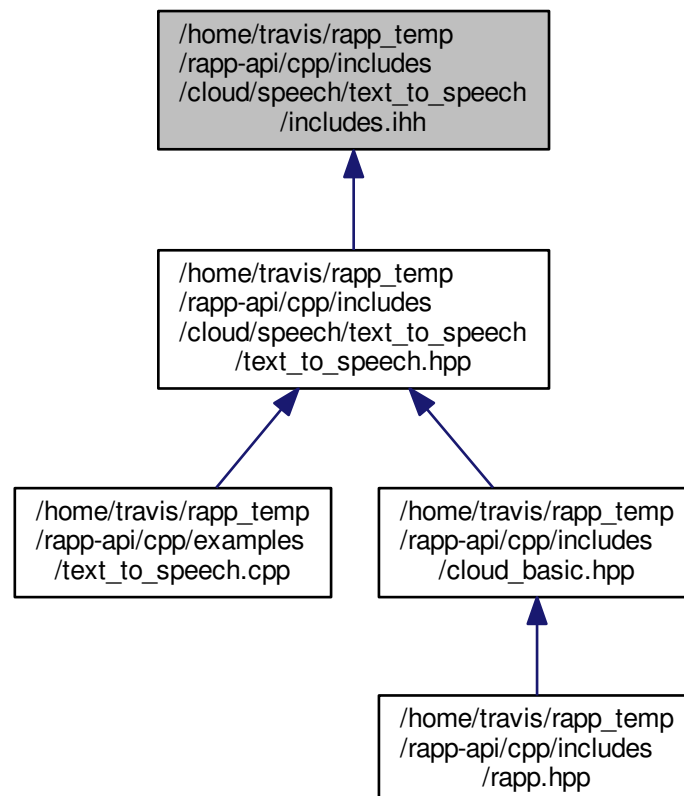
```
#include <functional>
```

```
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/audio/audio.hpp"
```

Include dependency graph for includes.ihh:

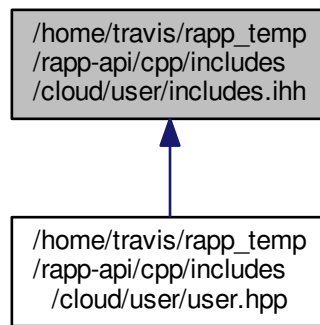


This graph shows which files directly or indirectly include this file:



## 7.29 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/user/includes.ihh File Reference

This graph shows which files directly or indirectly include this file:



## 7.30 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/vision/face\_detection/includes.ihh File Reference

```

#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/face/face.hpp"
#include "objects/picture/picture.hpp"

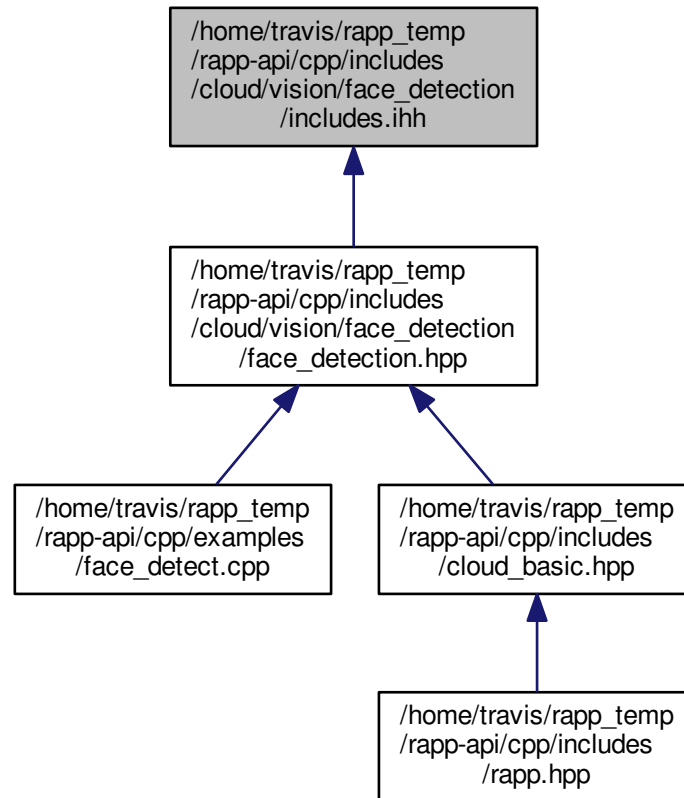
```

Include dependency graph for includes.ihh:





This graph shows which files directly or indirectly include this file:



## 7.31 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/vision/hazard\_detection/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/picture/picture.hpp"
```

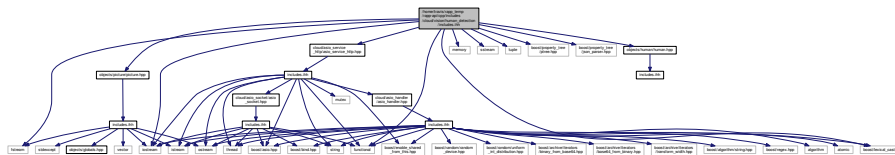


```

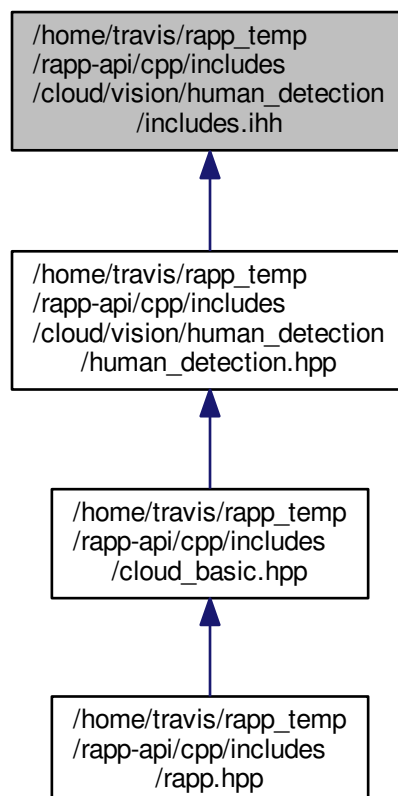
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/picture/picture.hpp"
#include "objects/human/human.hpp"

```

Include dependency graph for includes.ihh:



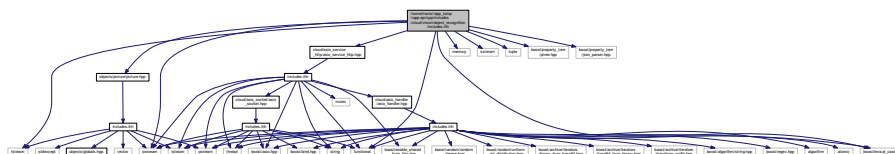
This graph shows which files directly or indirectly include this file:



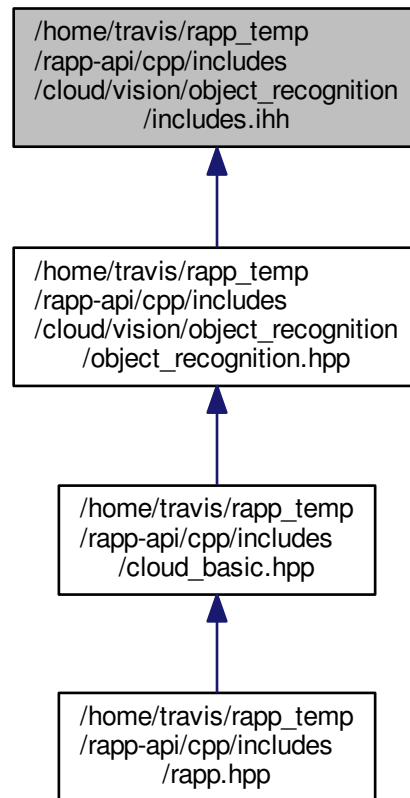
### 7.33 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/vision/object\_recognition/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/picture/picture.hpp"
```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



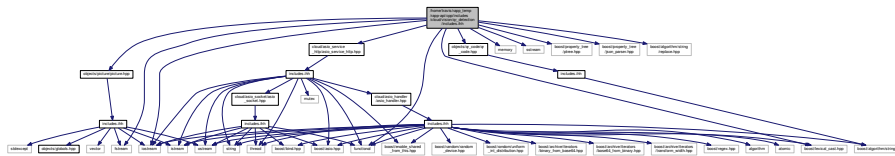
## 7.34 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/vision/qr\_detection/includes.ihh File Reference

```

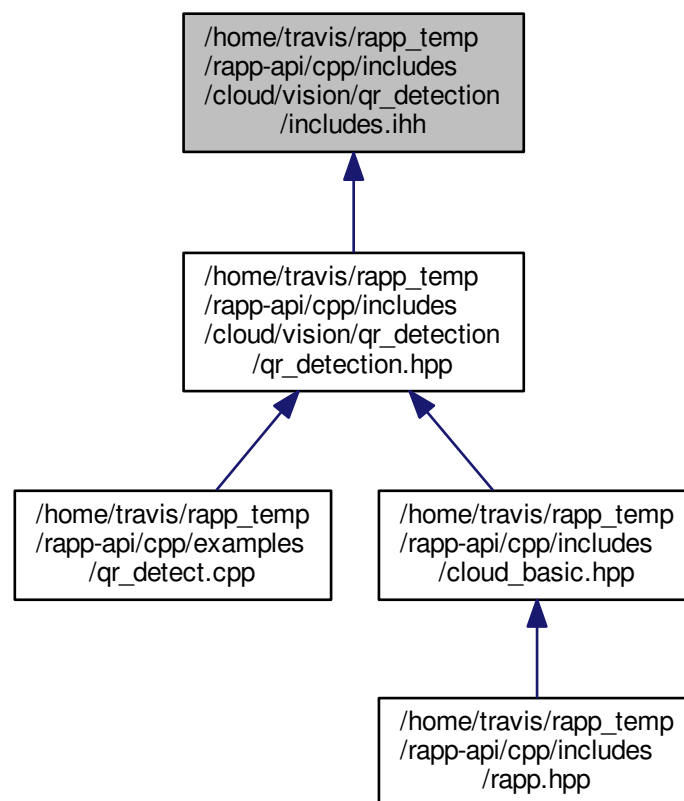
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include <boost/algorithm/string/replace.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/qr_code/qr_code.hpp"
#include "objects/picture/picture.hpp"

```

Include dependency graph for includes.ihh:



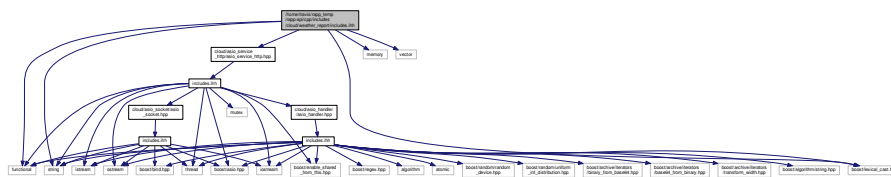
This graph shows which files directly or indirectly include this file:



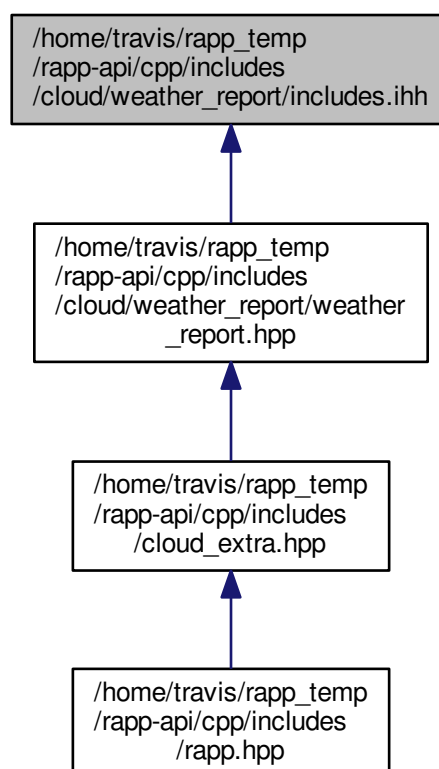
### 7.35 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/weather\_report/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <string>
#include <vector>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>
```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



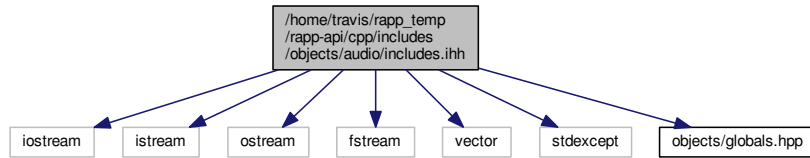
## 7.36 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/audio/includes.ihh File Reference

```

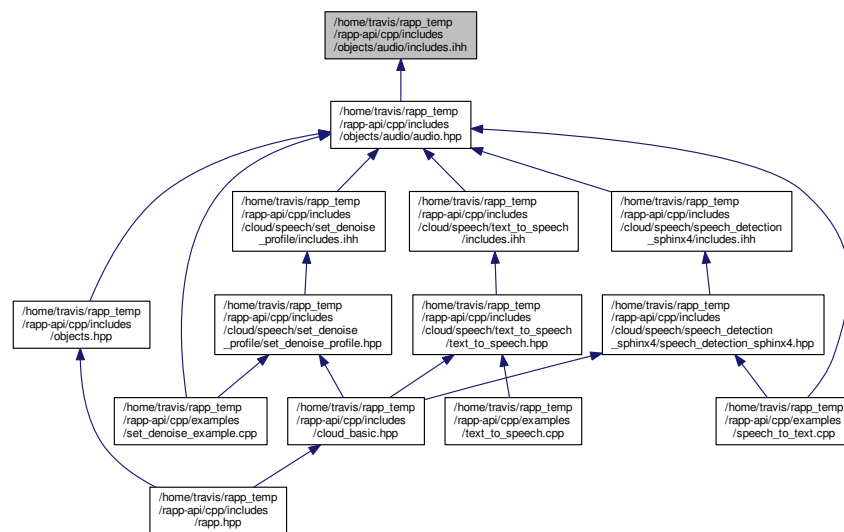
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <vector>
#include <stdexcept>
#include "objects/globals.hpp"

```

Include dependency graph for includes.ihh:



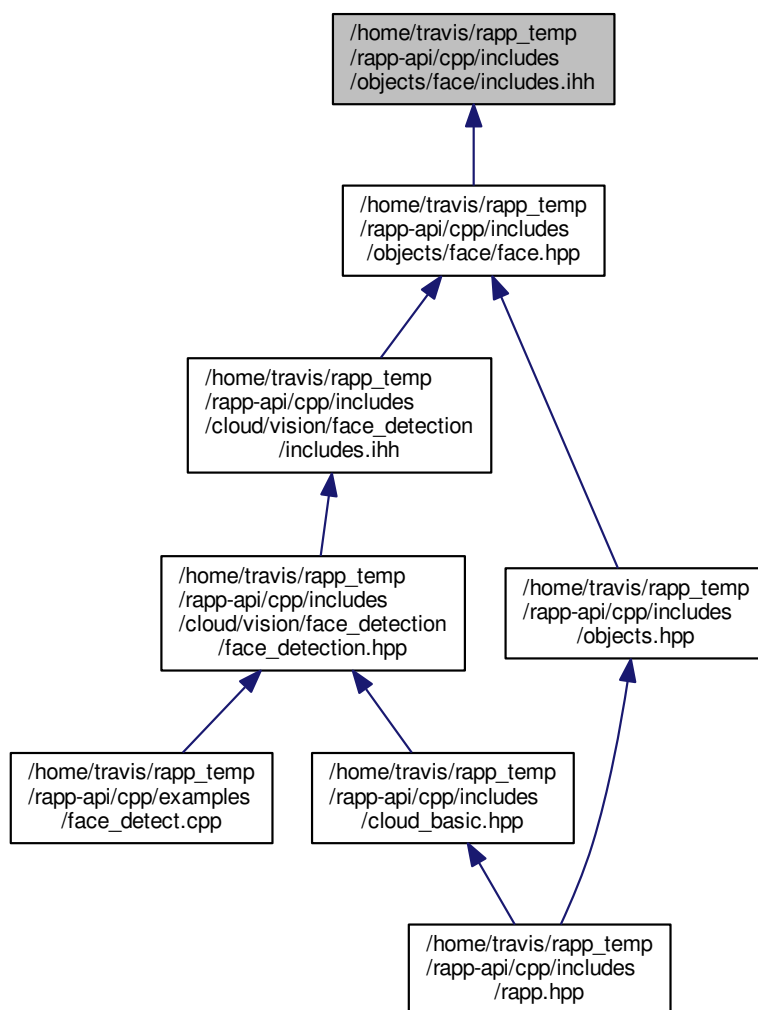
This graph shows which files directly or indirectly include this file:





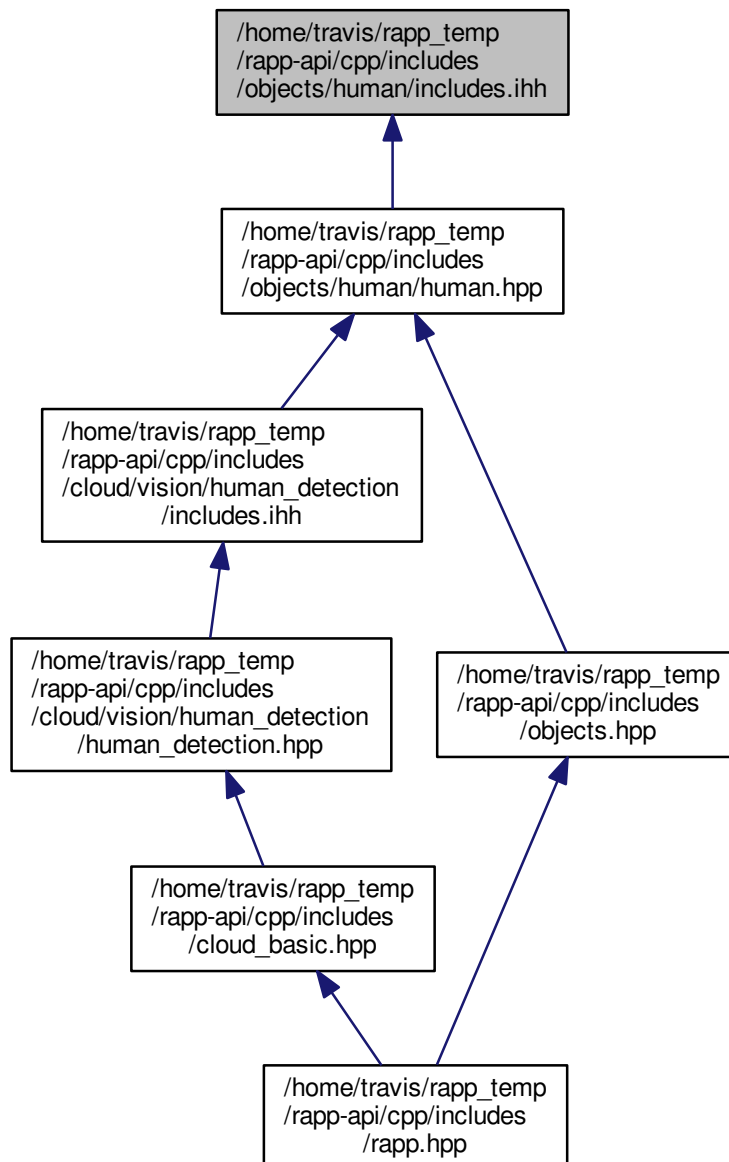
## 7.37 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/face/includes.ihh File Reference

This graph shows which files directly or indirectly include this file:



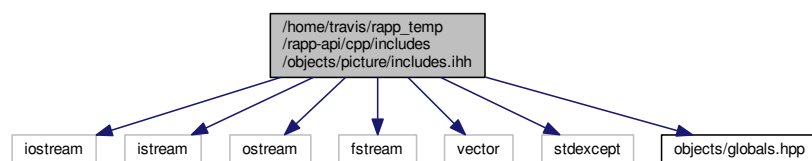
### 7.38 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/human/includes.ihh File Reference

This graph shows which files directly or indirectly include this file:

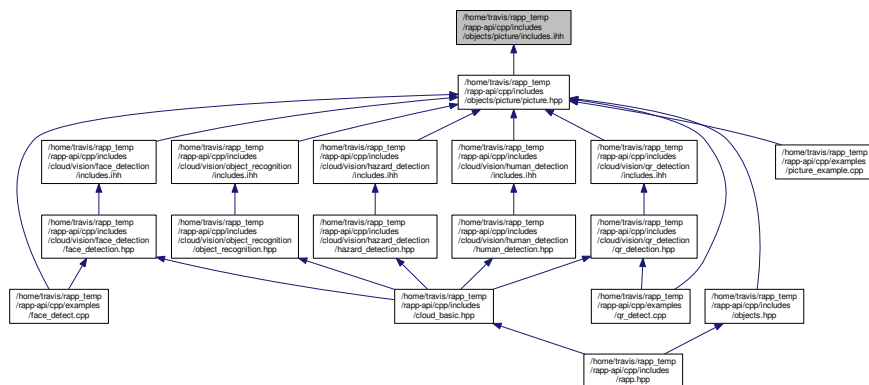


## 7.39 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/picture/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <vector>
#include <stdexcept>
#include "objects/globals.hpp"
Include dependency graph for includes.ihh:
```



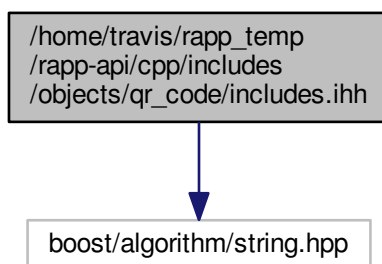
This graph shows which files directly or indirectly include this file:



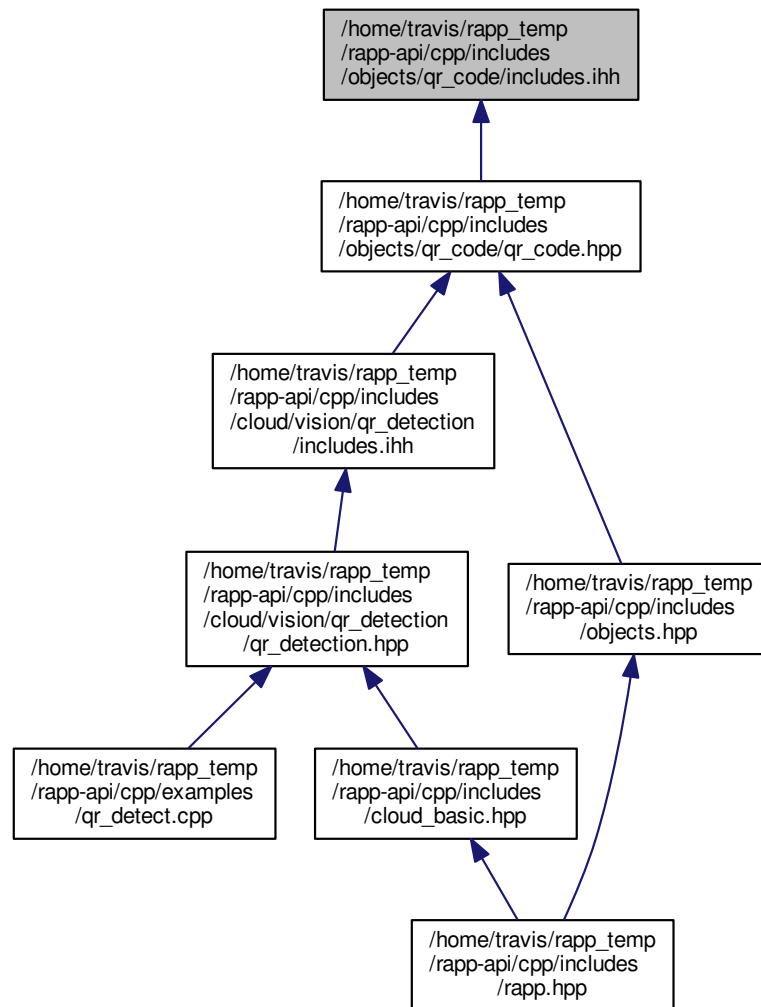
## 7.40 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/qr\_code/includes.ihh File Reference

```
#include <boost/algorithm/string.hpp>
```

Include dependency graph for includes.ihh:

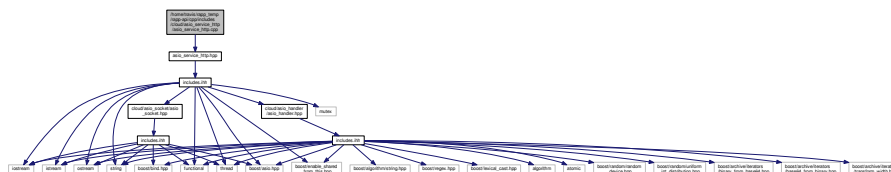


This graph shows which files directly or indirectly include this file:



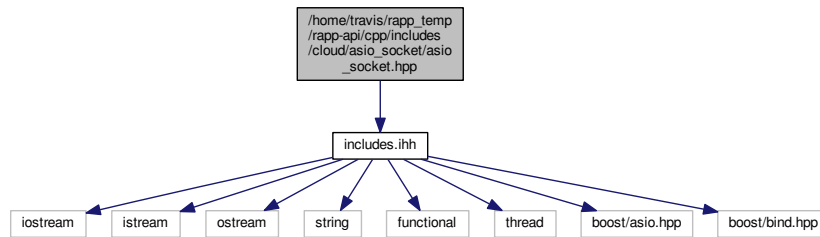
7.41 [/home/travis/rapp\\_temp/rapp-api/cpp/includes/cloud/asio\\_service\\_http/asio\\_service-http.cpp](#) File Reference

```
#include "asio_service_http.hpp"
Include dependency graph for asio_service_http.cpp:
```

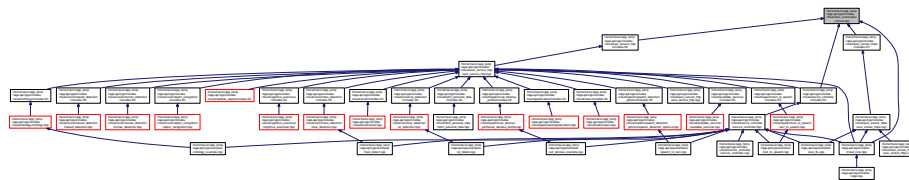




Include dependency graph for asio\_socket.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::asio\\_socket](#)

*Abstract Base ASIO Socket class Use for passing around to the service controller, various types of cloud handlers. This Interface is needed so that different handlers can be passed to the scheduler transparently.*

## Namespaces

- [rapp](#)
- [rapp::cloud](#)

## Variables

- constexpr char [rapp::cloud::address](#) [] = "localhost"  
*api.rapp.cloud -*
- constexpr char [rapp::cloud::port](#) [] = "9001"  
*api.rapp.cloud - HOP server port*

## 7.44 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/asio\_socket\_https/asio\_socket\_https.cpp File Reference

```
#include "asio_socket_https.hpp"
```

[illegible]

- rapp
- rapp::cloud

The diagram illustrates the relationship between the 'Data' node and various 'Data Type' nodes. The 'Data' node is at the top, branching into 'Data Type' nodes. These nodes are further categorized into 'Data Type' nodes, which are then linked to 'Data Type' nodes. The diagram illustrates the structure of the data types used in the study.

```

graph BT
    A["/home/travis/rapp_temp  
/rapp-api/cpp/includes  
/cloud/asio_socket_https  
/asio_socket_https.hpp"]
    B["/home/travis/rapp_temp  
/rapp-api/cpp/examples  
/asio_tls.cpp"]
    C["/home/travis/rapp_temp  
/rapp-api/cpp/includes  
/cloud/asio_socket_https  
/asio_socket_https.cpp"]
    D["/home/travis/rapp_temp  
/rapp-api/cpp/includes  
/cloud_core.hpp"]
    E["/home/travis/rapp_temp  
/rapp-api/cpp/includes  
/rapp.hpp"]

    B --> A
    C --> A
    D --> A
    E --> D
  
```

- class `rapp::cloud::asio_socket_https`



*wrapper for SSL/TLS secure HTTP communication*

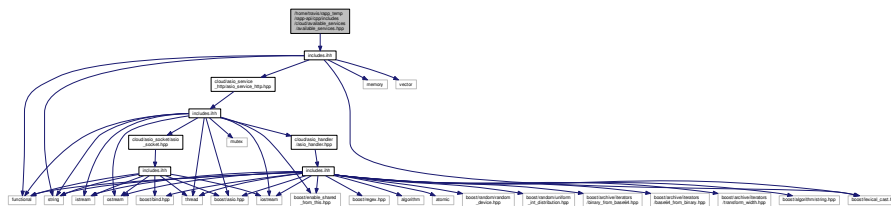
## Namespaces

- rapp
- rapp::cloud

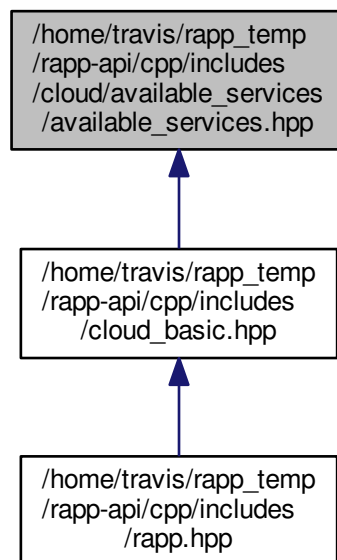
7.46 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/available\_services/available\_services.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for available\_services.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class `rapp::cloud::available_services`  
*requests available services from platform*



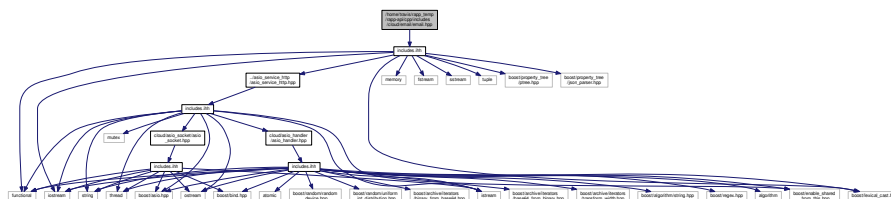
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

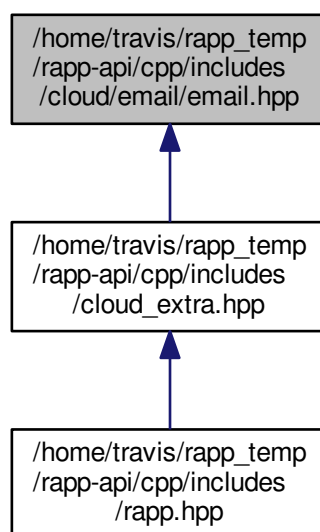
## 7.48 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/email/email.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for email.hpp:



This graph shows which files directly or indirectly include this file:

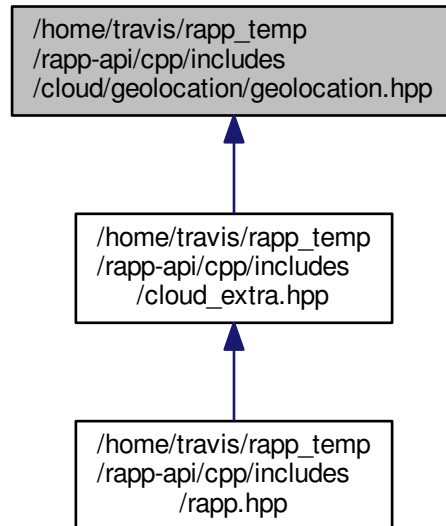


## Classes

- class [rapp::cloud::email\\_fetch](#)  
*fetch email(s)*
- class [rapp::cloud::email\\_send](#)  
*send an email*



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::geolocation](#)

*geolocation service*

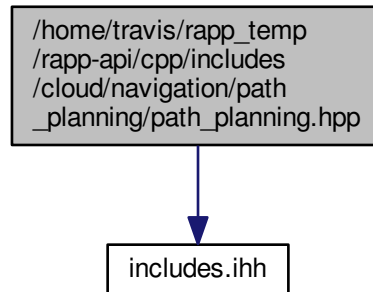
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

## 7.51 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/navigation/path\_planning/path\_planning.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for path\_planning.hpp:



## Classes

- class [rapp::cloud::path\\_upload\\_map](#)
- class [rapp::cloud::plan\\_path\\_2d](#)

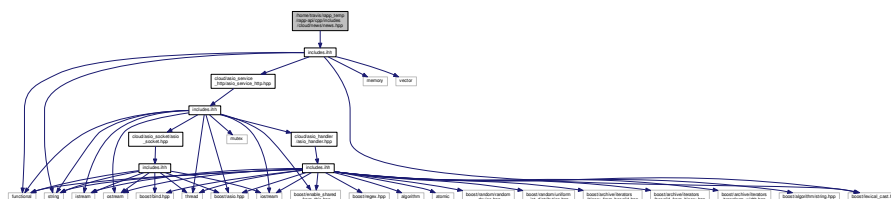
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

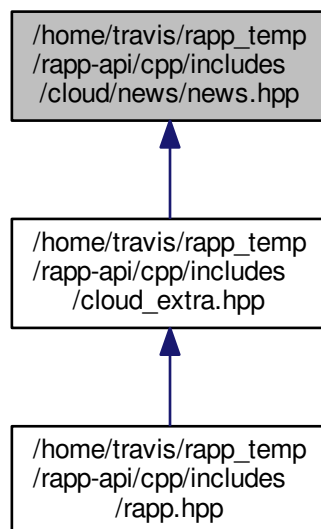
## 7.52 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/news/news.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for news.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::news\\_explore](#)  
*get news*

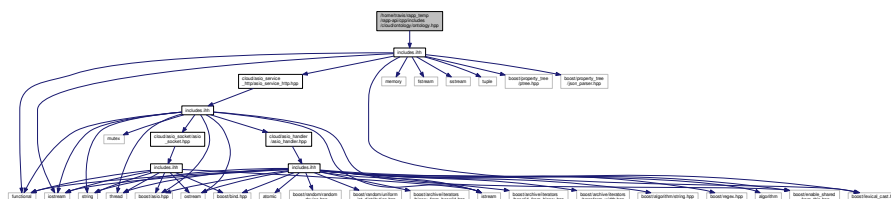
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

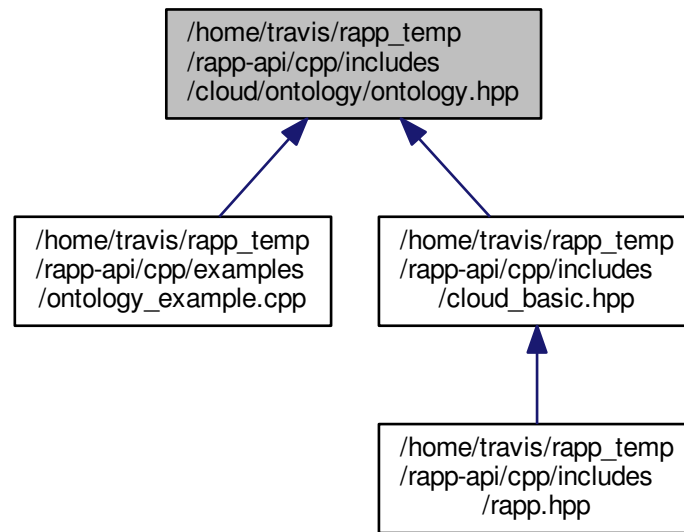
## 7.53 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for ontology.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::ontology\\_is\\_subsuperclass\\_of](#)  
*query if sub class is a super class of param*
- class [rapp::cloud::ontology\\_subclasses\\_of](#)  
*get ontology subclass of a query*
- class [rapp::cloud::ontology\\_superclasses\\_of](#)  
*get ontology super-classes of query*

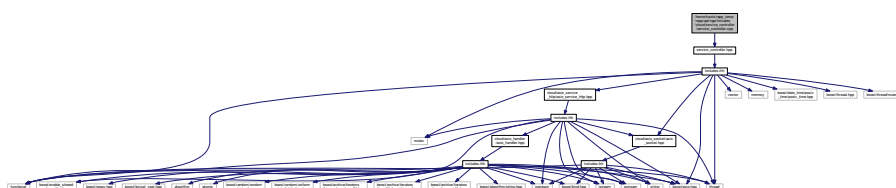
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

## 7.54 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/service\_controller/service\_controller.cpp File Reference

```
#include "service_controller.hpp"
```

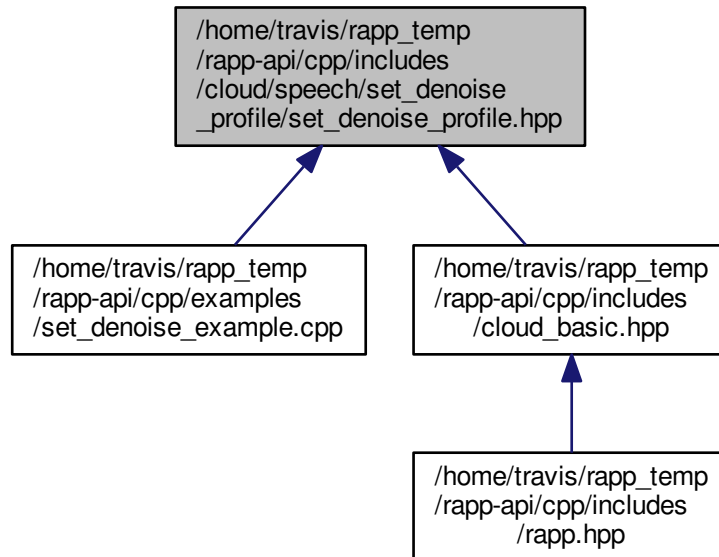
Include dependency graph for service\_controller.cpp:







This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::set\\_denoise\\_profile](#)

*setting the denoising audio profile for speech recognition*

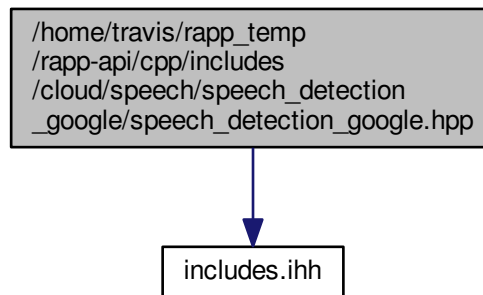
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

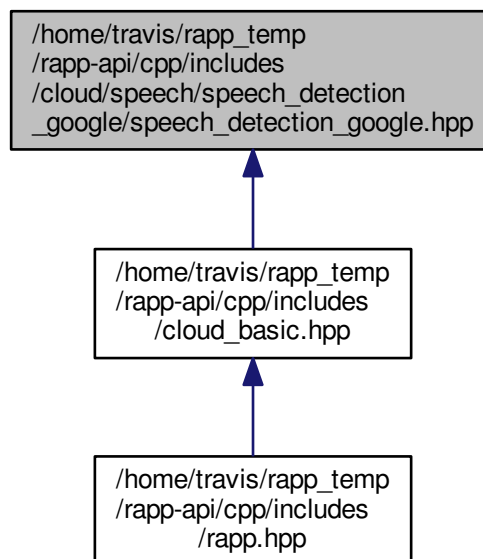
## 7.57 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/speech/speech\_detection\_google/speech\_detection\_google.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for speech\_detection\_google.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::speech\\_detection\\_google](#)  
*delegate speech-to-text to Google via RAPP*

## Namespaces

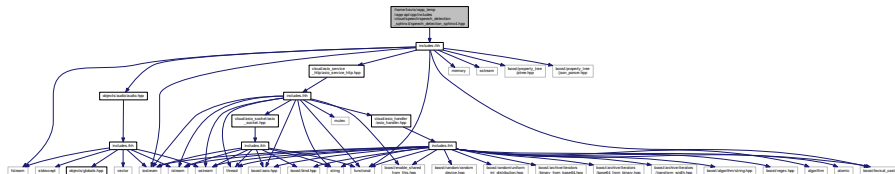
- [rapp](#)

- [rapp::cloud](#)

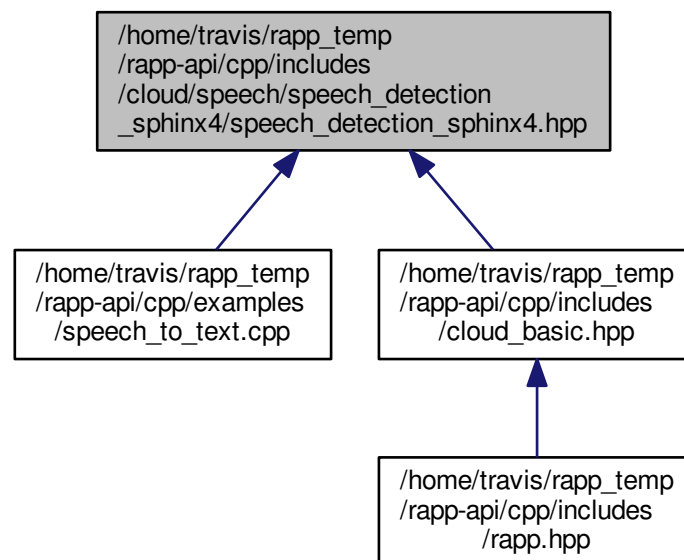
## 7.58 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/speech/speech\_detection\_sphinx4/speech\_detection\_sphinx4.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for `speech_detection_sphinx4.hpp`:



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::speech\\_detection\\_sphinx4](#)  
*speech-to-text recognition using CMU sphinx4*

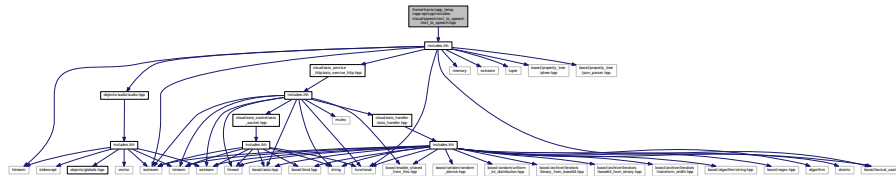
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

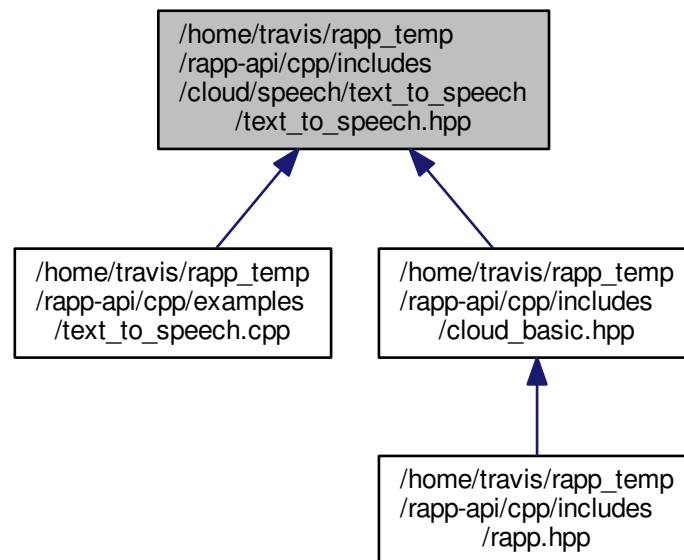
## 7.59 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/speech/text\_to\_speech/text\_to\_speech.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for text\_to\_speech.hpp:



This graph shows which files directly or indirectly include this file:



### Classes

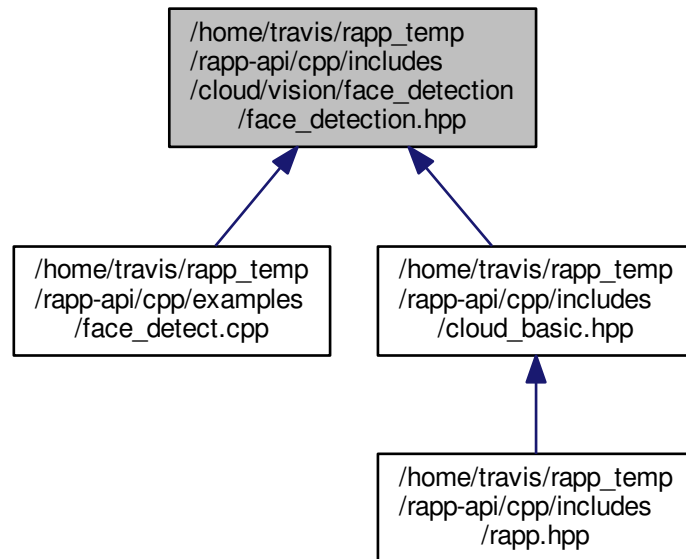
- class [rapp::cloud::text\\_to\\_speech](#)  
*request speech audio from text*

### Namespaces

- [rapp](#)
- [rapp::cloud](#)



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::face\\_detection](#)  
*Asynchronous Service which will request the cloud to detect faces.*

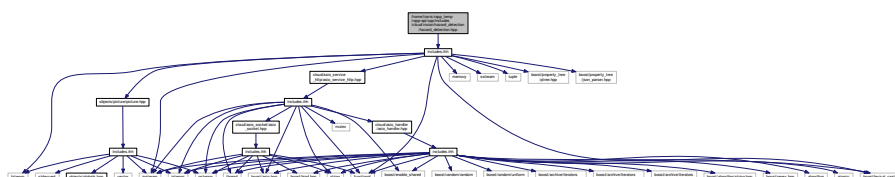
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

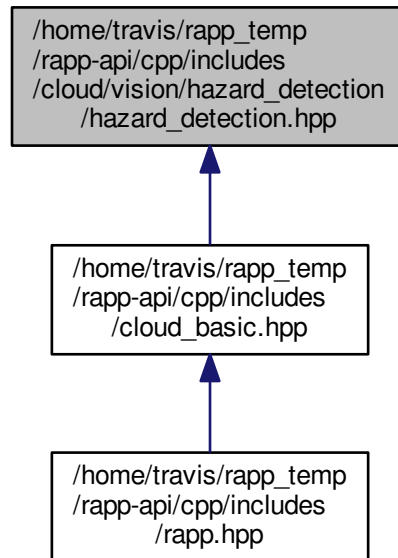
## 7.62 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/vision/hazard\_detection/hazard- \_detection.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for hazard\_detection.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::hazard\\_detection\\_door\\_check](#)  
*detect open doors*
- class [rapp::cloud::hazard\\_detection\\_light\\_check](#)  
*detect light levels*

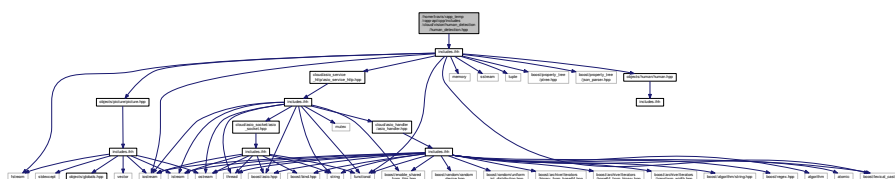
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

## 7.63 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/vision/human\_detection/human\_detection.hpp File Reference

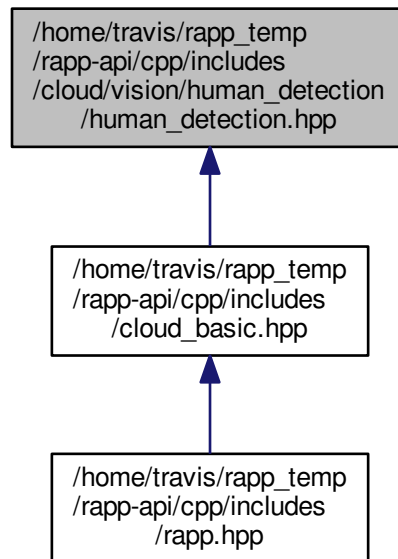
```
#include "includes.ihh"
```

Include dependency graph for human\_detection.hpp:





This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::human\\_detection](#)  
*detect humans in an image*

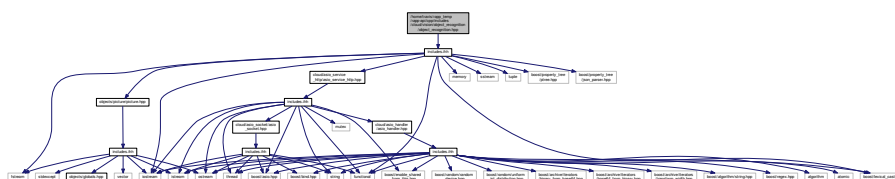
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

## 7.64 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/vision/object\_recognition/object\_recognition.hpp File Reference

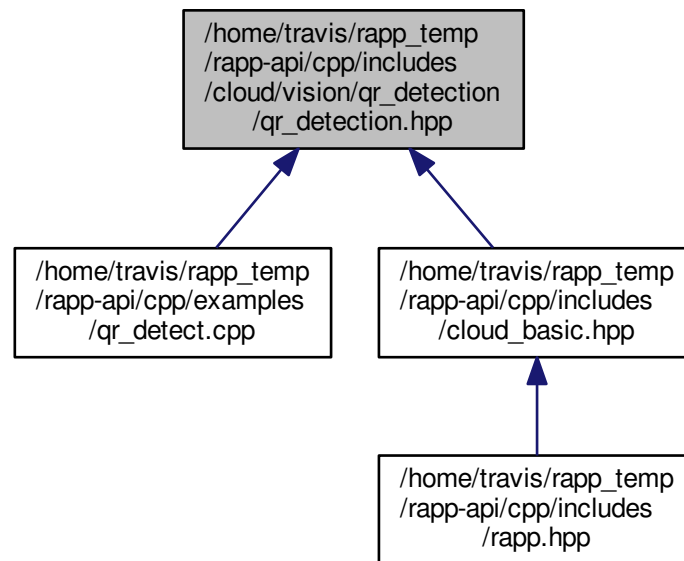
```
#include "includes.ihh"
```

Include dependency graph for object\_recognition.hpp:





This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::qr\\_detection](#)

*Asynchronous Service which will request the cloud to detect QR codes.*

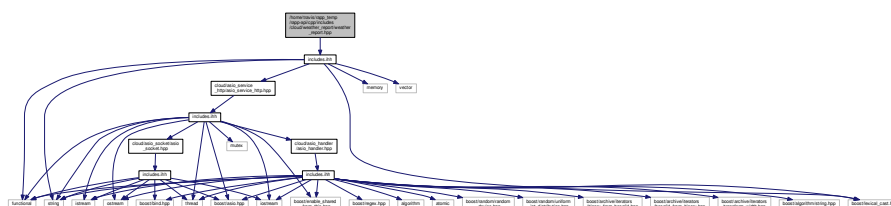
## Namespaces

- [rapp](#)
- [rapp::cloud](#)

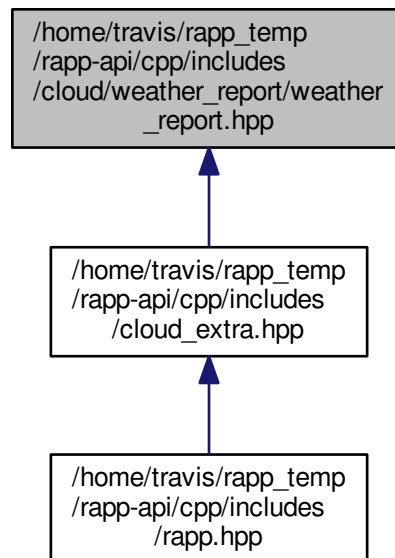
## 7.66 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud/weather\_report/weather\_report.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for `weather_report.hpp`:



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::cloud::weather\\_report\\_current](#)  
*get current weather report*
- class [rapp::cloud::weather\\_report\\_forecast](#)  
*get weather forecast*

## Namespaces

- [rapp](#)
- [rapp::cloud](#)

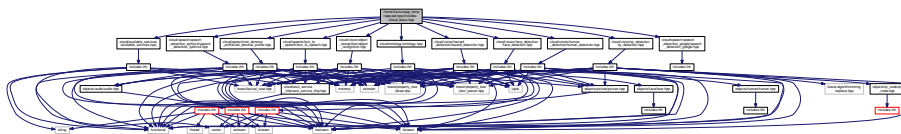
## 7.67 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud\_basic.hpp File Reference

```

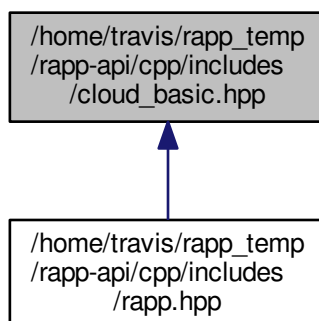
#include "cloud/available_services/available_services.hpp"
#include "cloud/ontology/ontology.hpp"
#include "cloud/vision/face_detection/face_detection.hpp"
#include "cloud/vision/hazard_detection/hazard_detection.hpp"
#include "cloud/vision/human_detection/human_detection.hpp"
#include "cloud/vision/object_recognition/object_recognition.hpp"
#include "cloud/vision/qr_detection/qr_detection.hpp"
#include "cloud/speech/set_denoise_profile/set_denoise_profile.hpp"
#include "cloud/speech/speech_detection_google/speech_detection_google.hpp"
#include "cloud/speech/speech_detection_sphinx4/speech_detection_sphinx4.-
hpp"
#include "cloud/speech/text_to_speech/text_to_speech.hpp"

```

Include dependency graph for cloud\_basic.hpp:



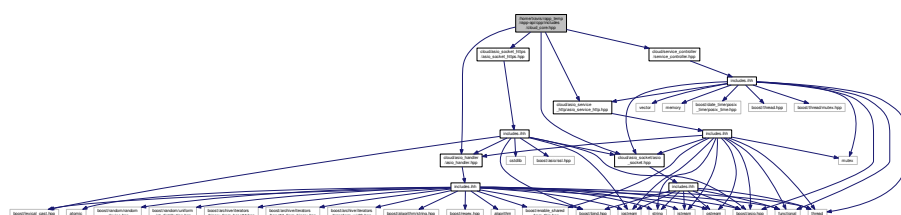
This graph shows which files directly or indirectly include this file:



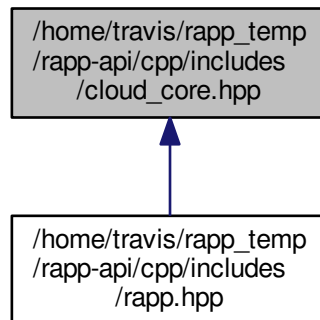
## 7.68 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud\_core.hpp File Reference

```
#include "cloud/asio_handler/asio_handler.hpp"
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "cloud/asio_socket/asio_socket.hpp"
#include "cloud/asio_socket_https/asio_socket_https.hpp"
#include "cloud/service_controller/service_controller.hpp"
```

Include dependency graph for cloud\_core.hpp:

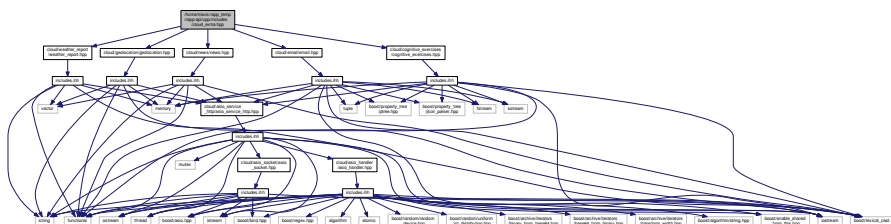


This graph shows which files directly or indirectly include this file:

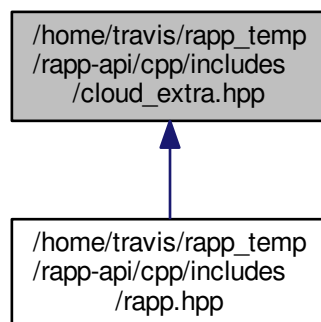


## 7.69 /home/travis/rapp\_temp/rapp-api/cpp/includes/cloud\_extra.hpp File Reference

```
#include "cloud/cognitive_exercises/cognitive_exercises.hpp"
#include "cloud/email/email.hpp"
#include "cloud/geolocation/geolocation.hpp"
#include "cloud/news/news.hpp"
#include "cloud/weather_report/weather_report.hpp"
Include dependency graph for cloud_extra.hpp:
```



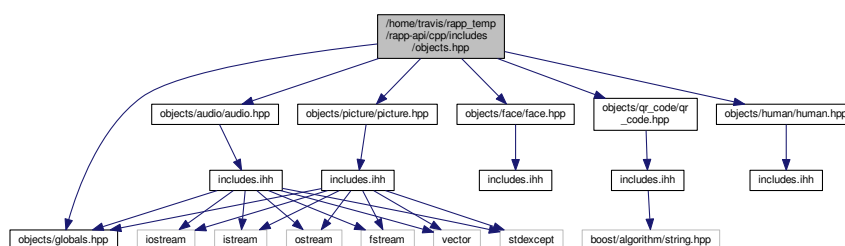
This graph shows which files directly or indirectly include this file:



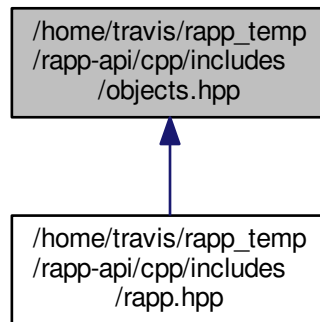
## 7.70 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects.hpp File Reference

```
#include "objects/globals.hpp"
#include "objects/face/face.hpp"
#include "objects/audio/audio.hpp"
#include "objects/qr_code/qr_code.hpp"
#include "objects/picture/picture.hpp"
#include "objects/human/human.hpp"
```

Include dependency graph for objects.hpp:



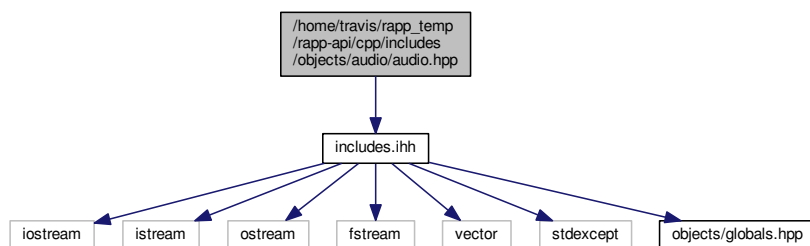
This graph shows which files directly or indirectly include this file:



## 7.71 `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp` File Reference

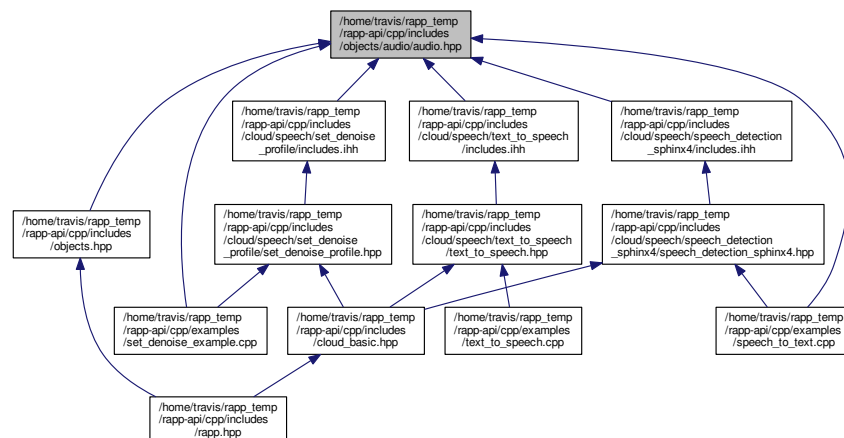
```
#include "includes.ihh"
```

Include dependency graph for `audio.hpp`:





This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::object::audio](#)  
*class which wraps around raw bytes of an audiofile*
- class [rapp::object::microphone\\_wav](#)  
*WAV Single channel 16Khz > Headset audio source.*
- class [rapp::object::nao\\_quad\\_channel\\_wav](#)  
*WAV Class specialisation for quad channel.*
- class [rapp::object::nao\\_single\\_channel\\_wav](#)  
*WAV Class specialisation for a single channel.*
- class [rapp::object::ogg](#)  
*OGG Class specialisation.*

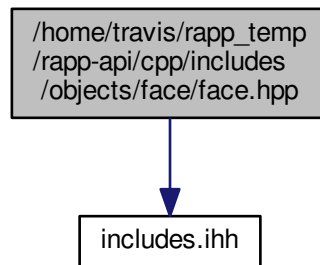
## Namespaces

- [rapp](#)
- [rapp::object](#)

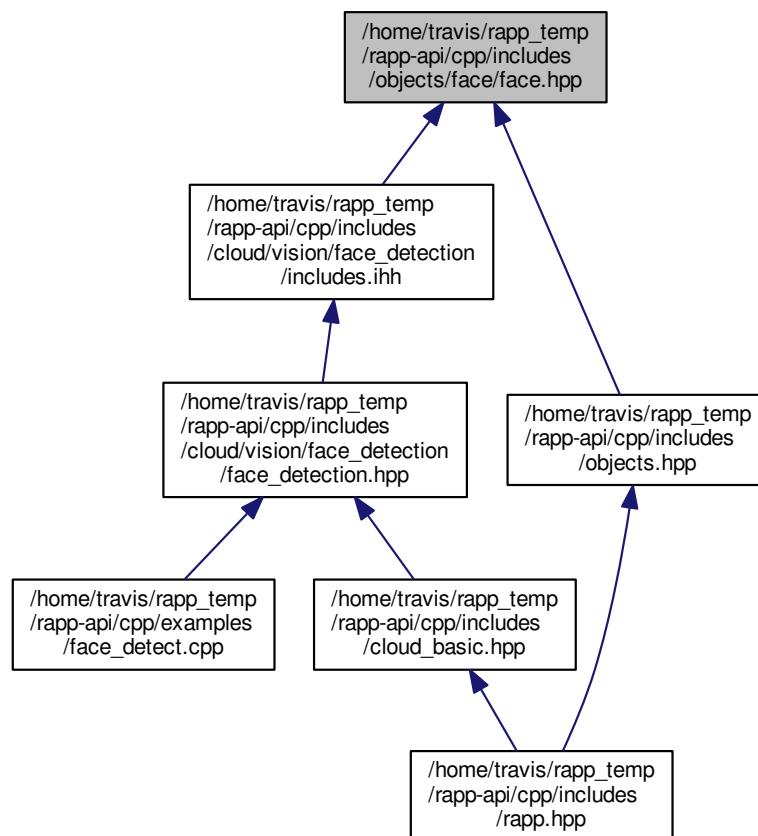
## 7.72 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/face/face.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for face.hpp:



This graph shows which files directly or indirectly include this file:



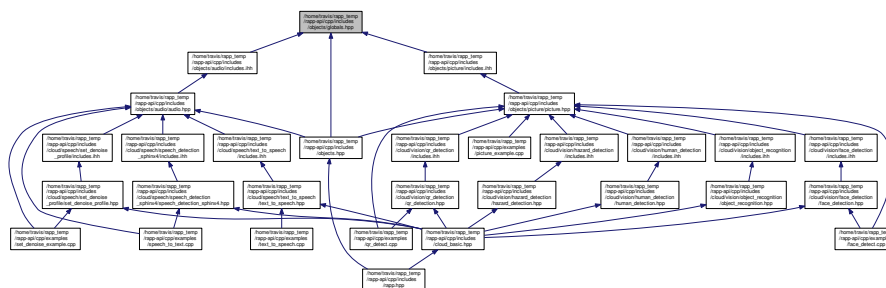
## Classes

- class [rapp::object::face](#)

## Namespaces

- rapp
- rapp::object

This graph shows which files directly or indirectly include this file:



- rapp
- rapp::types

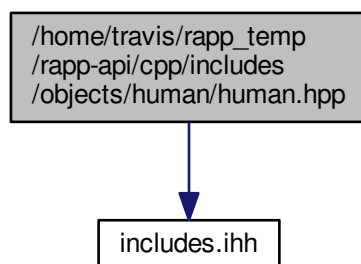
## Typedefs

- typedef char **rapp::types::byte**

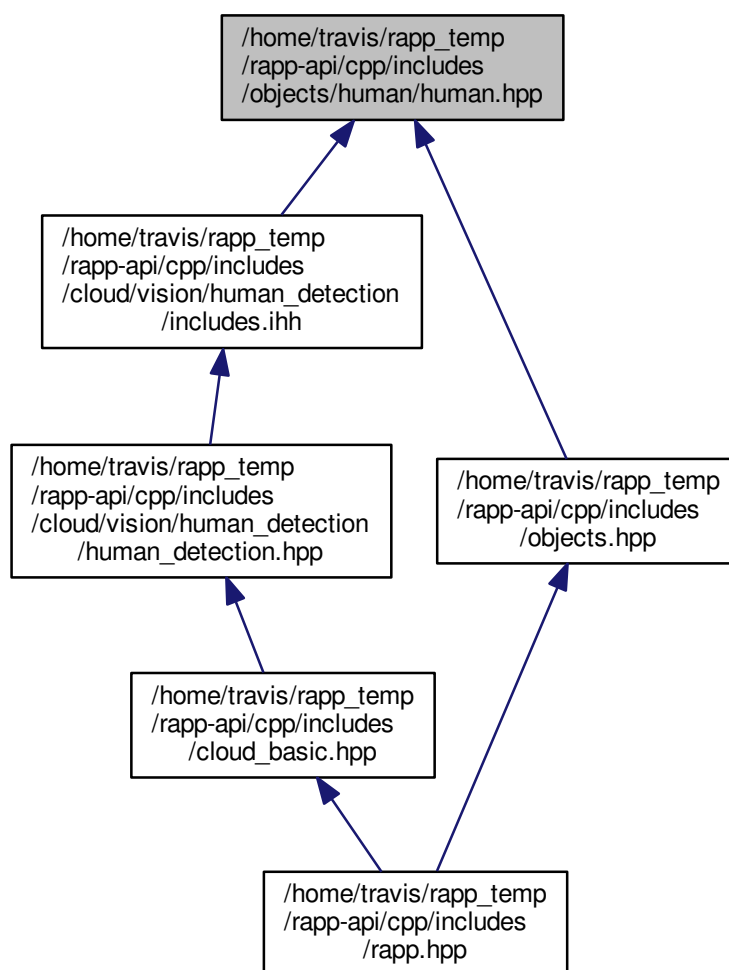
## 7.74 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/human/human.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for human.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class `rapp::object::human`  
*describes human coordinates*

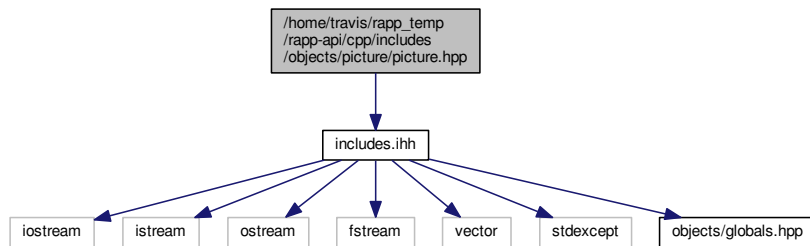
## Namespaces

- `rapp`
- `rapp::object`

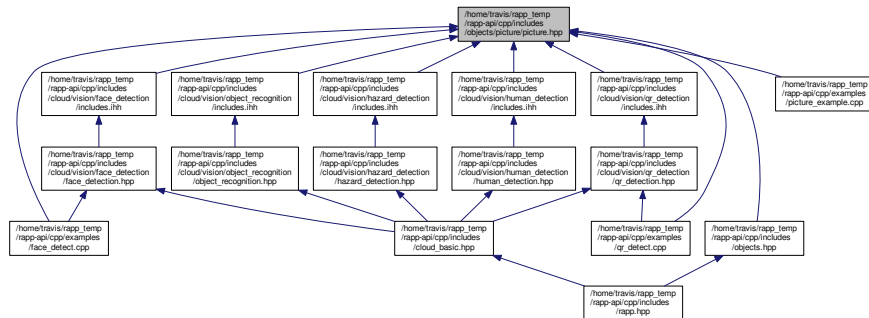
## 7.75 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/picture/picture.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for picture.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class `rapp::object::picture`

*class which wraps around raw bytes of a picture*

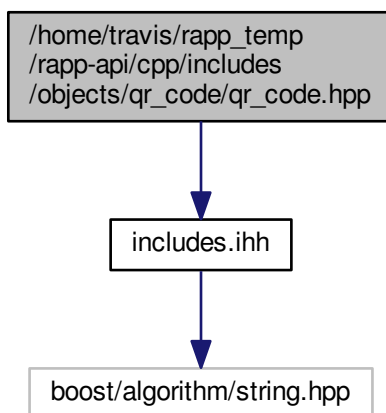
## Namespaces

- `rapp`
- `rapp::object`

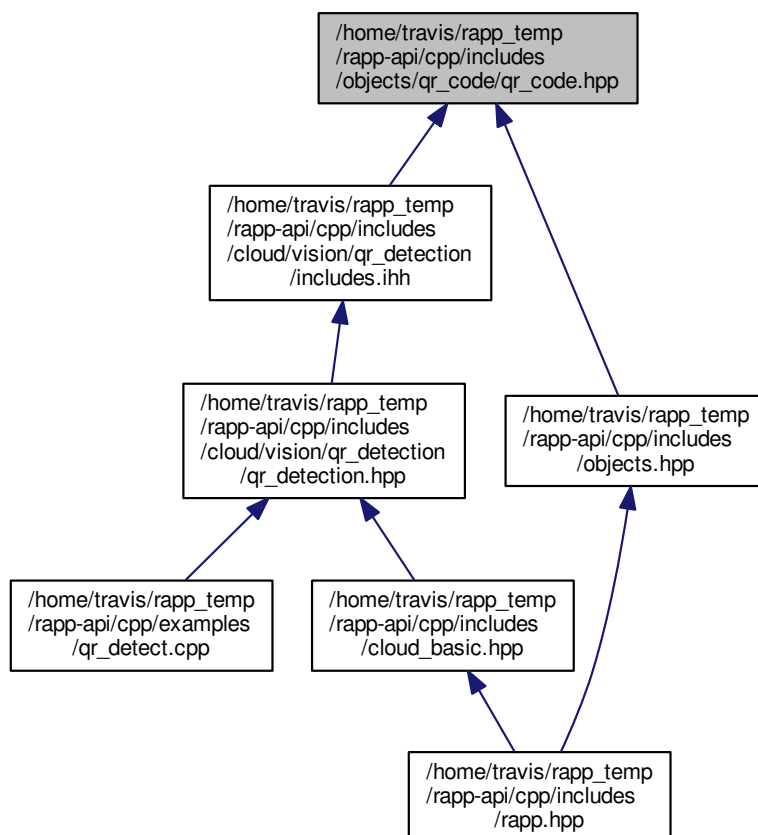
## 7.76 /home/travis/rapp\_temp/rapp-api/cpp/includes/objects/qr\_code/qr\_code.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for qr\_code.hpp:



This graph shows which files directly or indirectly include this file:



## Classes

- class [rapp::object::qr\\_code](#)

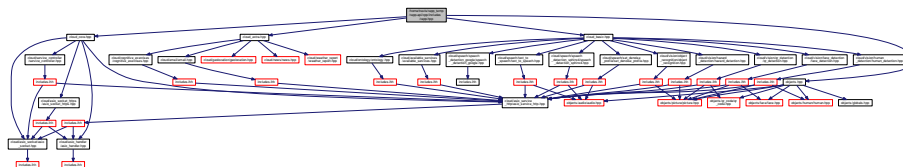
## Namespaces

- [rapp](#)
- [rapp::object](#)

## 7.77 /home/travis/rapp\_temp/rapp-api/cpp/includes/rapp.hpp File Reference

```
#include "cloud_core.hpp"
#include "cloud_basic.hpp"
#include "cloud_extra.hpp"
#include "objects.hpp"
```

Include dependency graph for rapp.hpp:



## 7.78 /home/travis/rapp\_temp/rapp-api/python/RappCloud/\_\_init\_\_.py File Reference

### Namespaces

- [RappCloud](#)

### Variables

- list [RappCloud.\\_\\_all\\_\\_](#) = ["CloudMsgs", "RappPlatformService", "Objects", "RappPlatformAPI"]

## 7.79 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/\_\_init\_\_.py File Reference

### Namespaces

- [CloudServices](#)
- [RappCloud.CloudMsgs](#)

## 7.80 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Objects/\_\_init\_\_.py File Reference

### Namespaces

- [RappCloud.Objects](#)



## 7.81 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Service/\_\_init\_\_.py File Reference

### Namespaces

- [RappCloud.Service](#)

## 7.82 /home/travis/rapp\_temp/rapp-api/python/RappCloud/ServiceController/\_\_init\_\_.py File Reference

### Namespaces

- [RappCloud.ServiceController](#)

## 7.83 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Utils/\_\_init\_\_.py File Reference

### Namespaces

- [RappCloud.Utils](#)

## 7.84 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py File Reference

### Classes

- class [RappCloud.CloudMsgs.Cloud.CloudMsg](#)
- class [RappCloud.CloudMsgs.Cloud.CloudRequest](#)
- class [RappCloud.CloudMsgs.Cloud.CloudResponse](#)

### Namespaces

- [RappCloud.CloudMsgs.Cloud](#)

## 7.85 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py File Reference

### Classes

- class [RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect](#)
- class [RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request](#)
- class [RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.CognitiveExerciseSelect](#)

## 7.86 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGet-History.py File Reference

### Classes

- class [RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory](#)
- class [RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request](#)
- class [RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.CognitiveGetHistory](#)

## 7.87 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGet-Scores.py File Reference

### Classes

- class [RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores](#)
- class [RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request](#)
- class [RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.CognitiveGetScores](#)

## 7.88 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecord-Performance.py File Reference

### Classes

- class [RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance](#)
- class [RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request](#)
- class [RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.CognitiveRecordPerformance](#)

## 7.89 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/EmailFetch.py File Reference

### Classes

- class [RappCloud.CloudMsgs.EmailFetch.EmailFetch](#)
- class [RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request](#)
- class [RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response](#)

## Namespaces

- [RappCloud.CloudMsgs.EmailFetch](#)

## 7.90 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py File Reference

### Classes

- class [RappCloud.CloudMsgs.EmailSend.EmailSend](#)
- class [RappCloud.CloudMsgs.EmailSend.EmailSend.Request](#)
- class [RappCloud.CloudMsgs.EmailSend.EmailSend.Response](#)

## Namespaces

- [RappCloud.CloudMsgs.EmailSend](#)

## 7.91 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py File Reference

### Classes

- class [RappCloud.CloudMsgs.FaceDetection.FaceDetection](#)
- class [RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request](#)
- class [RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response](#)

## Namespaces

- [RappCloud.CloudMsgs.FaceDetection](#)

## 7.92 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py File Reference

### Classes

- class [RappCloud.CloudMsgs.Geolocation.Geolocation](#)
- class [RappCloud.CloudMsgs.Geolocation.Geolocation.Request](#)
- class [RappCloud.CloudMsgs.Geolocation.Geolocation.Response](#)

## Namespaces

- [RappCloud.CloudMsgs.Geolocation](#)

## 7.93 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetection-Door.py File Reference

### Classes

- class [RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor](#)
- class [RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request](#)
- class [RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.HazardDetectionDoor](#)

## 7.94 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetection-Light.py File Reference

### Classes

- class [RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight](#)
- class [RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request](#)
- class [RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.HazardDetectionLight](#)

## 7.95 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py File Reference

### Classes

- class [RappCloud.CloudMsgs.HumanDetection.HumanDetection](#)
- class [RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request](#)
- class [RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.HumanDetection](#)

## 7.96 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py File Reference

### Classes

- class [RappCloud.CloudMsgs.NewsExplore.NewsExplore](#)
- class [RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request](#)
- class [RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response](#)

## Namespaces

- [RappCloud.CloudMsgs.NewsExplore](#)

## 7.97 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py File Reference

### Classes

- class [RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe](#)
- class [RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request](#)
- class [RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.ObjectRecognitionCaffe](#)

## 7.98 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py File Reference

### Classes

- class [RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass](#)
- class [RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request](#)
- class [RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.OntologyIsSubsuperclass](#)

## 7.99 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py File Reference

### Classes

- class [RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses](#)
- class [RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request](#)
- class [RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.OntologySubclasses](#)

## 7.100 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py File Reference

### Classes

- class [RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses](#)
- class [RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request](#)
- class [RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.OntologySuperclasses](#)

## 7.101 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py File Reference

### Classes

- class [RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D](#)
- class [RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request](#)
- class [RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.PathPlanningPlan2D](#)

## 7.102 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py File Reference

### Classes

- class [RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap](#)
- class [RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request](#)
- class [RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response](#)

### Namespaces

- [RappCloud.CloudMsgs.PathPlanningUploadMap](#)

## 7.103 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py File Reference

### Classes

- class [RappCloud.CloudMsgs.QrDetection.QrDetection](#)
- class [RappCloud.CloudMsgs.QrDetection.QrDetection.Request](#)
- class [RappCloud.CloudMsgs.QrDetection.QrDetection.Response](#)

## Namespaces

- [RappCloud.CloudMsgs.QrDetection](#)

## 7.104 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py File Reference

### Classes

- class [RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request](#)
- class [RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response](#)
- class [RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile](#)

## Namespaces

- [RappCloud.CloudMsgs.SetNoiseProfile](#)

## 7.105 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognition-Google.py File Reference

### Classes

- class [RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request](#)
- class [RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response](#)
- class [RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle](#)

## Namespaces

- [RappCloud.CloudMsgs.SpeechRecognitionGoogle](#)

## 7.106 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognition-Sphinx.py File Reference

### Classes

- class [RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request](#)
- class [RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response](#)
- class [RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx](#)

## Namespaces

- [RappCloud.CloudMsgs.SpeechRecognitionSphinx](#)

## 7.107 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py File Reference

### Classes

- class [RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request](#)
- class [RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response](#)
- class [RappCloud.CloudMsgs.TextToSpeech.TextToSpeech](#)

### Namespaces

- [RappCloud.CloudMsgs.TextToSpeech](#)

## 7.108 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportCurrent.py File Reference

### Classes

- class [RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request](#)
- class [RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response](#)
- class [RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent](#)

### Namespaces

- [RappCloud.CloudMsgs.WeatherReportCurrent](#)

## 7.109 /home/travis/rapp\_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportForecast.py File Reference

### Classes

- class [RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request](#)
- class [RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response](#)
- class [RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast](#)

### Namespaces

- [RappCloud.CloudMsgs.WeatherReportForecast](#)

## 7.110 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Objects/File.py File Reference

### Classes

- class [RappCloud.Objects.File.File](#)

### Namespaces

- [RappCloud.Objects.File](#)



### 7.110.1 Detailed Description

#### Copyright

Rapp Projecty EU 2016

#### Author

Konstantinos Panayiotou, [[klpanagi@gmail.com](mailto:klpanagi@gmail.com)]

Definition in file [File.py](#).

## 7.111 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Objects/Payload.py File Reference

### Classes

- class [RappCloud.Objects.Payload.Payload](#)

### Namespaces

- [RappCloud.Objects.Payload](#)

### 7.111.1 Detailed Description

#### Copyright

Rapp Projecty EU 2016

#### Author

Konstantinos Panayiotou, [[klpanagi@gmail.com](mailto:klpanagi@gmail.com)]

Definition in file [Payload.py](#).

## 7.112 /home/travis/rapp\_temp/rapp-api/python/RappCloud/RappPlatformApi.py File Reference

### Classes

- class [RappCloud.RappPlatformApi.RappPlatformAPI](#)

### Namespaces

- [RappCloud.RappPlatformApi](#)

### 7.112.1 Detailed Description

#### Copyright

Rapp Project EU 2015

#### Author

Konstantinos Panayiotou, Manos Tsardoulis

Definition in file [RappPlatformApi.py](#).

## 7.113 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Service/RappPlatformService.py File Reference

### Classes

- class [RappCloud.Service.RappPlatformService.RappPlatformService](#)

### Namespaces

- [RappCloud.Service.RappPlatformService](#)

### 7.113.1 Detailed Description

#### Copyright

Rapp Projecty EU 2016

#### Author

Konstantinos Panayiotou, [[klpanagi@gmail.com](mailto:klpanagi@gmail.com)]

Definition in file [RappPlatformService.py](#).

## 7.114 /home/travis/rapp\_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py File Reference

### Classes

- class [RappCloud.ServiceController.Adapters.SSL23Adapter](#)
- class [RappCloud.ServiceController.Adapters.SSL2Adapter](#)
- class [RappCloud.ServiceController.Adapters.SSL3Adapter](#)
- class [RappCloud.ServiceController.Adapters.SSLAdapter](#)
- class [RappCloud.ServiceController.Adapters.SSLDef](#)
- class [RappCloud.ServiceController.Adapters.TLS11Adapter](#)
- class [RappCloud.ServiceController.Adapters.TLS12Adapter](#)
- class [RappCloud.ServiceController.Adapters.TLS1Adapter](#)
- class [RappCloud.ServiceController.Adapters.TLSAdapter](#)

## Namespaces

- [RappCloud.ServiceController.Adapters](#)

### 7.114.1 Detailed Description

#### Copyright

Rapp Projecty EU 2016

#### Author

Konstantinos Panayiotou, [[klpanagi@gmail.com](mailto:klpanagi@gmail.com)]

Definition in file [Adapters.py](#).

## 7.115 /home/travis/rapp\_temp/rapp-api/python/RappCloud/ServiceController/Async-Handler.py File Reference

### Classes

- class [RappCloud.ServiceController.AsyncHandler.AsyncHandler](#)

### Namespaces

- [RappCloud.ServiceController.AsyncHandler](#)

## 7.116 /home/travis/rapp\_temp/rapp-api/python/RappCloud/ServiceController/RAPP-Auth.py File Reference

### Classes

- class [RappCloud.ServiceController.RAPPAuth.RAPPAuth](#)

### Namespaces

- [RappCloud.ServiceController.RAPPAuth](#)

### 7.116.1 Detailed Description

#### Copyright

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#### Author

Konstantinos Panayiotou, [[klpanagi@gmail.com](mailto:klpanagi@gmail.com)]

Definition in file [RAPPAuth.py](#).

## 7.117 `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerAsync.py` File Reference

### Classes

- class [RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync](#)

### Namespaces

- [RappCloud.ServiceController.ServiceControllerAsync](#)

## 7.118 `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerBase.py` File Reference

### Classes

- class [RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase](#)

### Namespaces

- [RappCloud.ServiceController.ServiceControllerBase](#)

### 7.118.1 Detailed Description

#### Copyright

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#### Author

Konstantinos Panayiotou, [[klpanagi@gmail.com](mailto:klpanagi@gmail.com)]

Definition in file [ServiceControllerBase.py](#).

## 7.119 `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerSync.py` File Reference

### Classes

- class [RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync](#)

### Namespaces

- [RappCloud.ServiceController.ServiceControllerSync](#)

### 7.119.1 Detailed Description

#### Copyright

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#### Author

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Definition in file [ServiceControllerSync.py](#).

## 7.120 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Utils/DatatypeAssert.py File Reference

### Namespaces

- [RappCloud.Utils.DatatypeAssert](#)

### Functions

- def [RappCloud.Utils.DatatypeAssert.add\\_to\\_args](#)  
*Add values to \*args.*
- def [RappCloud.Utils.DatatypeAssert.add\\_to\\_kwargs](#)  
*Add values to \*\*kwargs.*
- def [RappCloud.Utils.DatatypeAssert.datatypeassert](#)  
*Data type assertion decorator implementation.*

## 7.121 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Utils/Net.py File Reference

### Classes

- class [RappCloud.Utils.Net.Net](#)

### Namespaces

- [RappCloud.Utils.Net](#)

### 7.121.1 Detailed Description

#### Copyright

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#### Author

Konstantinos Panayiotou, [[klpanagi@gmail.com](mailto:klpanagi@gmail.com)]

Definition in file [Net.py](#).

## 7.122 /home/travis/rapp\_temp/rapp-api/python/RappCloud/Utils/RandStrGen.py File Reference

### Classes

- class [RappCloud.Utils.RandStrGen.RandStrGen](#)

### Namespaces

- [RappCloud.Utils.RandStrGen](#)

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