RAPP Platform API

Generated by Doxygen 1.8.6

Tue Jul 19 2016 11:44:28

Contents

1 Namespace Index **1**

1.1 Packages . . . 1

2 Hierarchical Index **3**

2.1 Class Hierarchy . . . 3

3 Class Index **7**

3.1 Class List . . . 7

4 File Index **11**

4.1 File List . . . 11

5 Namespace Documentation **15**

5.1 CloudServices Namespace Reference . . . 15

5.2 rapp Namespace Reference . . . 15

5.3 rapp::cloud Namespace Reference . . . 15

5.3.1 Variable Documentation . . . 17

5.3.1.1 address . . . 17

5.3.1.2 port . . . 17

5.4 rapp::object Namespace Reference . . . 17

5.5 rapp::types Namespace Reference . . . 17

5.5.1 Detailed Description . . . 17

5.5.2 Typedef Documentation . . . 18

5.5.2.1 byte . . . 18

5.6 RappCloud Namespace Reference . . . 18

5.6.1 Variable Documentation . . . 18

5.6.1.1 __all__ . . . 18

5.7 RappCloud.CloudMsgs Namespace Reference . . . 18

5.8 RappCloud.CloudMsgs.Cloud Namespace Reference . . . 19

5.9 RappCloud.CloudMsgs.CognitiveExerciseSelect Namespace Reference . . . 19

5.10 RappCloud.CloudMsgs.CognitiveGetHistory Namespace Reference . . . 19

5.11 RappCloud.CloudMsgs.CognitiveGetScores Namespace Reference . . . 19

5.12 RappCloud.CloudMsgs.CognitiveRecordPerformance Namespace Reference . . . 19

5.13 RappCloud.CloudMsgs.EmailFetch Namespace Reference . . . 19
5.14 RappCloud.CloudMsgs.EmailSend Namespace Reference . . . 20
5.15 RappCloud.CloudMsgs.FaceDetection Namespace Reference . . . 20
5.16 RappCloud.CloudMsgs.Geolocation Namespace Reference . . . 20
5.17 RappCloud.CloudMsgs.HazardDetectionDoor Namespace Reference . . . 20
5.18 RappCloud.CloudMsgs.HazardDetectionLight Namespace Reference . . . 20
5.19 RappCloud.CloudMsgs.HumanDetection Namespace Reference . . . 20
5.20 RappCloud.CloudMsgs.NewsExplore Namespace Reference . . . 20
5.21 RappCloud.CloudMsgs.ObjectRecognitionCaffe Namespace Reference . . . 21
5.22 RappCloud.CloudMsgs.OntologyIsSubsuperclass Namespace Reference . . . 21
5.23 RappCloud.CloudMsgs.OntologySubclasses Namespace Reference . . . 21
5.24 RappCloud.CloudMsgs.OntologySuperclasses Namespace Reference . . . 21
5.25 RappCloud.CloudMsgs.PathPlanningPlan2D Namespace Reference . . . 21
5.26 RappCloud.CloudMsgs.PathPlanningUploadMap Namespace Reference . . . 21
5.27 RappCloud.CloudMsgs.QrDetection Namespace Reference . . . 21
5.28 RappCloud.CloudMsgs.SetNoiseProfile Namespace Reference . . . 22
5.29 RappCloud.CloudMsgs.SpeechRecognitionGoogle Namespace Reference . . . 22
5.30 RappCloud.CloudMsgs.SpeechRecognitionSphinx Namespace Reference . . . 22
5.31 RappCloud.CloudMsgs.TextToSpeech Namespace Reference . . . 22
5.32 RappCloud.CloudMsgs.WeatherReportCurrent Namespace Reference . . . 22
5.33 RappCloud.CloudMsgs.WeatherReportForecast Namespace Reference . . . 22
5.34 RappCloud.Objects Namespace Reference . . . 22
5.35 RappCloud.Objects.File Namespace Reference . . . 23
5.36 RappCloud.Objects.Payload Namespace Reference . . . 23
5.37 RappCloud.RappPlatformApi Namespace Reference . . . 23
5.38 RappCloud.Service Namespace Reference . . . 23
5.39 RappCloud.Service.RappPlatformService Namespace Reference . . . 23
5.40 RappCloud.ServiceController Namespace Reference . . . 23
5.41 RappCloud.ServiceController.Adapters Namespace Reference . . . 23
5.42 RappCloud.ServiceController.AsyncHandler Namespace Reference . . . 24
5.43 RappCloud.ServiceController.RAPPAuth Namespace Reference . . . 24
5.44 RappCloud.ServiceController.ServiceControllerAsync Namespace Reference . . . 24
5.45 RappCloud.ServiceController.ServiceControllerBase Namespace Reference . . . 24
5.46 RappCloud.ServiceController.ServiceControllerSync Namespace Reference . . . 24
5.47 RappCloud.Utils Namespace Reference . . . 24
5.48 RappCloud.Utils.DatatypeAssert Namespace Reference . . . 25
5.48.1 Function Documentation . . . 25
5.48.1.1 add_to_args . . . 25
5.48.1.2 add_to_kwargs . . . 25
5.48.1.3 datatypeassert . . . 25

5.49 RappCloud.Utils.Net Namespace Reference . . . 25
5.50 RappCloud.Utils.RandStrGen Namespace Reference . . . 25

6 Class Documentation **27**

6.1 rapp::cloud::asio_handler Class Reference . . . 27
6.1.1 Detailed Description . . . 29
6.1.2 Constructor & Destructor Documentation . . . 30
6.1.2.1 asio_handler . . . 30
6.1.3 Member Function Documentation . . . 30
6.1.3.1 content_length . . . 30
6.1.3.2 decode64 . . . 30
6.1.3.3 encode64 . . . 30
6.1.3.4 error_handler . . . 30
6.1.3.5 escape_string . . . 31
6.1.3.6 has_content_length . . . 31
6.1.3.7 invalid_request . . . 31
6.1.3.8 random_boundary . . . 31
6.1.3.9 strip_header . . . 31
6.1.4 Member Data Documentation . . . 31
6.1.4.1 bytes_transferred_ . . . 31
6.1.4.2 callback_ . . . 31
6.1.4.3 content_length_ . . . 32
6.1.4.4 flag_ . . . 32
6.1.4.5 header_ . . . 32
6.1.4.6 json_ . . . 32
6.1.4.7 post_ . . . 32
6.1.4.8 request_ . . . 32
6.1.4.9 response_ . . . 32
6.1.4.10 timer_ . . . 32
6.1.4.11 token_ . . . 32
6.2 rapp::cloud::asio_service_http Class Reference . . . 33
6.2.1 Detailed Description . . . 35
6.2.2 Constructor & Destructor Documentation . . . 35
6.2.2.1 asio_service_http . . . 35
6.2.3 Member Function Documentation . . . 35
6.2.3.1 check_timeout . . . 35
6.2.3.2 handle_connect . . . 35
6.2.3.3 handle_read_content . . . 35
6.2.3.4 handle_read_headers . . . 36
6.2.3.5 handle_read_status_line . . . 36

6.2.3.6 handle_resolve . . . 36
6.2.3.7 handle_write_request . . . 36
6.2.3.8 reset . . . 36
6.2.3.9 schedule . . . 37
6.2.4 Member Data Documentation . . . 38
6.2.4.1 socket_ . . . 38
6.3 rapp::cloud::asio_socket Class Reference . . . 38
6.3.1 Detailed Description . . . 40
6.3.2 Member Function Documentation . . . 40
6.3.2.1 schedule . . . 40
6.4 rapp::cloud::asio_socket_https Class Reference . . . 40
6.4.1 Detailed Description . . . 42
6.4.2 Member Typedef Documentation . . . 42
6.4.2.1 boost_tls_socket . . . 42
6.4.3 Constructor & Destructor Documentation . . . 43
6.4.3.1 asio_socket_https . . . 43
6.4.4 Member Function Documentation . . . 44
6.4.4.1 check_timeout . . . 44
6.4.4.2 handle_connect . . . 44
6.4.4.3 handle_handshake . . . 44
6.4.4.4 handle_read_content . . . 44
6.4.4.5 handle_read_headers . . . 44
6.4.4.6 handle_read_status_line . . . 44
6.4.4.7 handle_write . . . 45
6.4.4.8 reset . . . 45
6.4.4.9 schedule . . . 45
6.4.4.10 verify_certificate . . . 45
6.4.5 Member Data Documentation . . . 45
6.4.5.1 ctx_ . . . 45
6.4.5.2 tls_socket_ . . . 45
6.5 RappCloud.ServiceController.AsyncHandler.AsyncHandler Class Reference . . . 46
6.5.1 Detailed Description . . . 47
6.5.2 Constructor & Destructor Documentation . . . 47
6.5.2.1 __init__ . . . 47
6.5.3 Member Function Documentation . . . 47
6.5.3.1 wait . . . 47
6.5.4 Member Data Documentation . . . 47
6.5.4.1 __future . . . 47
6.6 rapp::object::audio Class Reference . . . 47
6.6.1 Detailed Description . . . 49

6.6.2 Constructor & Destructor Documentation . . . 49
6.6.2.1 audio . . . 49
6.6.2.2 audio . . . 49
6.6.2.3 audio . . . 49
6.6.2.4 audio . . . 49
6.6.2.5 audio . . . 49
6.6.3 Member Function Documentation . . . 49
6.6.3.1 audio_source . . . 49
6.6.3.2 bytearray . . . 50
6.6.3.3 extension . . . 50
6.6.3.4 operator= . . . 50
6.6.3.5 operator== . . . 50
6.6.3.6 read_bytes . . . 50
6.6.3.7 save . . . 50
6.6.4 Member Data Documentation . . . 50
6.6.4.1 bytearray_ . . . 50
6.7 rapp::cloud::available_services Class Reference . . . 50
6.7.1 Detailed Description . . . 52
6.7.2 Constructor & Destructor Documentation . . . 52
6.7.2.1 available_services . . . 52
6.7.3 Member Function Documentation . . . 52
6.7.3.1 handle_reply . . . 52
6.7.4 Member Data Documentation . . . 52
6.7.4.1 delegate_ . . . 52
6.8 RappCloud.CloudMsgs.Cloud.CloudMsg Class Reference . . . 53
6.8.1 Detailed Description . . . 53
6.8.2 Constructor & Destructor Documentation . . . 54
6.8.2.1 __init__ . . . 54
6.8.3 Member Function Documentation . . . 54
6.8.3.1 svcname . . . 54
6.8.4 Member Data Documentation . . . 54
6.8.4.1 _svcname . . . 54
6.9 RappCloud.CloudMsgs.Cloud.CloudRequest Class Reference . . . 54
6.9.1 Detailed Description . . . 55
6.9.2 Constructor & Destructor Documentation . . . 55
6.9.2.1 __init__ . . . 55
6.9.3 Member Function Documentation . . . 55
6.9.3.1 __eq__ . . . 55
6.9.3.2 make_files . . . 56
6.9.3.3 make_payload . . . 56

6.9.3.4 serialize . . . 56
6.9.3.5 set . . . 56
6.10 RappCloud.CloudMsgs.Cloud.CloudResponse Class Reference . . . 57
6.10.1 Detailed Description . . . 57
6.10.2 Constructor & Destructor Documentation . . . 58
6.10.2.1 __init__ . . . 58
6.10.3 Member Function Documentation . . . 58
6.10.3.1 __eq__ . . . 58
6.10.3.2 serialize . . . 58
6.10.3.3 set . . . 58
6.11 rapp::cloud::cognitive_get_history Class Reference . . . 58
6.11.1 Detailed Description . . . 60
6.11.2 Constructor & Destructor Documentation . . . 60
6.11.2.1 cognitive_get_history . . . 60
6.11.3 Member Function Documentation . . . 60
6.11.3.1 handle_reply . . . 60
6.11.4 Member Data Documentation . . . 60
6.11.4.1 delegate_ . . . 60
6.12 rapp::cloud::cognitive_get_scores Class Reference . . . 61
6.12.1 Detailed Description . . . 62
6.12.2 Constructor & Destructor Documentation . . . 62
6.12.2.1 cognitive_get_scores . . . 62
6.12.3 Member Function Documentation . . . 62
6.12.3.1 handle_reply . . . 62
6.12.4 Member Data Documentation . . . 63
6.12.4.1 delegate_ . . . 63
6.13 rapp::cloud::cognitive_record_performance Class Reference . . . 63
6.13.1 Detailed Description . . . 64
6.13.2 Constructor & Destructor Documentation . . . 65
6.13.2.1 cognitive_record_performance . . . 65
6.13.3 Member Function Documentation . . . 65
6.13.3.1 handle_reply . . . 65
6.13.4 Member Data Documentation . . . 65
6.13.4.1 delegate_ . . . 65
6.14 rapp::cloud::cognitive_test_selector Class Reference . . . 65
6.14.1 Detailed Description . . . 67
6.14.2 Constructor & Destructor Documentation . . . 67
6.14.2.1 cognitive_test_selector . . . 67
6.14.3 Member Function Documentation . . . 67
6.14.3.1 handle_reply . . . 67

6.14.4 Member Data Documentation . . . 67
6.14.4.1 delegate_ . . . 68
6.15 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect Class Reference . . . 68
6.15.1 Detailed Description . . . 69
6.15.2 Constructor & Destructor Documentation . . . 69
6.15.2.1 __init__ . . . 69
6.15.3 Member Data Documentation . . . 69
6.15.3.1 req . . . 69
6.15.3.2 resp . . . 69
6.16 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory Class Reference . . . 70
6.16.1 Detailed Description . . . 71
6.16.2 Constructor & Destructor Documentation . . . 71
6.16.2.1 __init__ . . . 71
6.16.3 Member Data Documentation . . . 71
6.16.3.1 req . . . 71
6.16.3.2 resp . . . 71
6.17 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores Class Reference . . . 72
6.17.1 Detailed Description . . . 73
6.17.2 Constructor & Destructor Documentation . . . 73
6.17.2.1 __init__ . . . 73
6.17.3 Member Data Documentation . . . 73
6.17.3.1 req . . . 73
6.17.3.2 resp . . . 73
6.18 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance Class Reference 74
6.18.1 Detailed Description . . . 75
6.18.2 Constructor & Destructor Documentation . . . 75
6.18.2.1 __init__ . . . 75
6.18.3 Member Data Documentation . . . 75
6.18.3.1 req . . . 75
6.18.3.2 resp . . . 75
6.19 rapp::cloud::email_fetch Class Reference . . . 75
6.19.1 Detailed Description . . . 77
6.19.2 Constructor & Destructor Documentation . . . 77
6.19.2.1 email_fetch . . . 77
6.19.3 Member Function Documentation . . . 77
6.19.3.1 handle_reply . . . 77
6.19.4 Member Data Documentation . . . 77
6.19.4.1 delegate_ . . . 77
6.20 rapp::cloud::email_send Class Reference . . . 78
6.20.1 Detailed Description . . . 79

6.20.2 Constructor & Destructor Documentation . . . 79
6.20.2.1 email_send . . . 79
6.20.3 Member Function Documentation . . . 80
6.20.3.1 handle_reply . . . 80
6.20.4 Member Data Documentation . . . 80
6.20.4.1 delegate_ . . . 80
6.21 RappCloud.CloudMsgs.EmailFetch.EmailFetch Class Reference . . . 80
6.21.1 Detailed Description . . . 81
6.21.2 Constructor & Destructor Documentation . . . 81
6.21.2.1 __init__ . . . 81
6.21.3 Member Data Documentation . . . 81
6.21.3.1 req . . . 81
6.21.3.2 resp . . . 82
6.22 RappCloud.CloudMsgs.EmailSend.EmailSend Class Reference . . . 82
6.22.1 Detailed Description . . . 83
6.22.2 Constructor & Destructor Documentation . . . 83
6.22.2.1 __init__ . . . 83
6.22.3 Member Data Documentation . . . 83
6.22.3.1 req . . . 83
6.22.3.2 resp . . . 83
6.23 rapp::object::face Class Reference . . . 83
6.23.1 Detailed Description . . . 84
6.23.2 Constructor & Destructor Documentation . . . 84
6.23.2.1 face . . . 84
6.23.2.2 face . . . 84
6.23.2.3 face . . . 84
6.23.3 Member Function Documentation . . . 85
6.23.3.1 operator== . . . 85
6.23.4 Member Data Documentation . . . 85
6.23.4.1 bottom_right_x__ . . . 85
6.23.4.2 bottom_right_y__ . . . 85
6.23.4.3 top_left_x__ . . . 85
6.23.4.4 top_left_y__ . . . 85
6.24 rapp::cloud::face_detection Class Reference . . . 85
6.24.1 Detailed Description . . . 87
6.24.2 Constructor & Destructor Documentation . . . 87
6.24.2.1 face_detection . . . 87
6.24.3 Member Function Documentation . . . 87
6.24.3.1 handle_reply . . . 87
6.24.4 Member Data Documentation . . . 88

6.24.4.1 delegate_ . . . 88
6.25 RappCloud.CloudMsgs.FaceDetection.FaceDetection Class Reference . . . 88
6.25.1 Detailed Description . . . 89
6.25.2 Constructor & Destructor Documentation . . . 89
6.25.2.1 __init__ . . . 89
6.25.3 Member Data Documentation . . . 89
6.25.3.1 req . . . 89
6.25.3.2 resp . . . 89
6.26 rapp::cloud::fetch_personal_data Class Reference . . . 89
6.26.1 Detailed Description . . . 91
6.26.2 Constructor & Destructor Documentation . . . 91
6.26.2.1 fetch_personal_data . . . 91
6.26.3 Member Function Documentation . . . 91
6.26.3.1 handle_reply . . . 91
6.26.4 Member Data Documentation . . . 91
6.26.4.1 delegate__ . . . 91
6.27 RappCloud.Objects.File.File Class Reference . . . 92
6.27.1 Detailed Description . . . 93
6.27.2 Constructor & Destructor Documentation . . . 93
6.27.2.1 __init__ . . . 93
6.27.3 Member Function Documentation . . . 93
6.27.3.1 __eq__ . . . 93
6.27.3.2 make_tuple . . . 93
6.27.3.3 path . . . 93
6.27.3.4 path . . . 93
6.27.3.5 postfield . . . 94
6.27.3.6 postfield . . . 94
6.27.3.7 serialize . . . 94
6.27.4 Member Data Documentation . . . 94
6.27.4.1 __boundarySize . . . 94
6.27.4.2 __path . . . 94
6.27.4.3 __postfield . . . 94
6.28 RappCloud.CloudMsgs.Geolocation.Geolocation Class Reference . . . 95
6.28.1 Detailed Description . . . 96
6.28.2 Constructor & Destructor Documentation . . . 96
6.28.2.1 __init__ . . . 96
6.28.3 Member Data Documentation . . . 96
6.28.3.1 req . . . 96
6.28.3.2 resp . . . 96
6.29 rapp::cloud::geolocation Class Reference . . . 96

6.29.1 Detailed Description . . . 98
6.29.2 Constructor & Destructor Documentation . . . 98
6.29.2.1 geolocation . . . 98
6.29.3 Member Function Documentation . . . 98
6.29.3.1 handle_reply . . . 98
6.29.4 Member Data Documentation . . . 98
6.29.4.1 delegate_ . . . 98
6.30 rapp::cloud::hazard_detection_door_check Class Reference . . . 98
6.30.1 Detailed Description . . . 100
6.30.2 Constructor & Destructor Documentation . . . 100
6.30.2.1 hazard_detection_door_check . . . 100
6.30.3 Member Function Documentation . . . 100
6.30.3.1 handle_reply . . . 100
6.30.4 Member Data Documentation . . . 100
6.30.4.1 delegate__ . . . 100
6.31 rapp::cloud::hazard_detection_light_check Class Reference . . . 101
6.31.1 Detailed Description . . . 102
6.31.2 Constructor & Destructor Documentation . . . 102
6.31.2.1 hazard_detection_light_check . . . 102
6.31.3 Member Function Documentation . . . 102
6.31.3.1 handle_reply . . . 102
6.31.4 Member Data Documentation . . . 103
6.31.4.1 delegate__ . . . 103
6.32 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor Class Reference . . . 103
6.32.1 Detailed Description . . . 104
6.32.2 Constructor & Destructor Documentation . . . 104
6.32.2.1 __init__ . . . 104
6.32.3 Member Data Documentation . . . 104
6.32.3.1 req . . . 104
6.32.3.2 resp . . . 104
6.33 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight Class Reference . . . 105
6.33.1 Detailed Description . . . 106
6.33.2 Constructor & Destructor Documentation . . . 106
6.33.2.1 __init__ . . . 106
6.33.3 Member Data Documentation . . . 106
6.33.3.1 req . . . 106
6.33.3.2 resp . . . 106
6.34 rapp::object::human Class Reference . . . 106
6.34.1 Detailed Description . . . 107
6.34.2 Constructor & Destructor Documentation . . . 107

6.34.2.1 human . . . 107
6.34.2.2 human . . . 107
6.34.2.3 human . . . 107
6.34.3 Member Function Documentation . . . 107
6.34.3.1 operator== . . . 107
6.34.4 Member Data Documentation . . . 107
6.34.4.1 bottom_right_x__ . . . 107
6.34.4.2 bottom_right_y__ . . . 108
6.34.4.3 top_left_x__ . . . 108
6.34.4.4 top_left_y__ . . . 108
6.35 rapp::cloud::human_detection Class Reference . . . 108
6.35.1 Detailed Description . . . 109
6.35.2 Constructor & Destructor Documentation . . . 110
6.35.2.1 human_detection . . . 110
6.35.3 Member Function Documentation . . . 110
6.35.3.1 handle_reply . . . 110
6.35.4 Member Data Documentation . . . 110
6.35.4.1 delegate__ . . . 110
6.36 RappCloud.CloudMsgs.HumanDetection.HumanDetection Class Reference . . . 111
6.36.1 Detailed Description . . . 112
6.36.2 Constructor & Destructor Documentation . . . 112
6.36.2.1 __init__ . . . 112
6.36.3 Member Data Documentation . . . 112
6.36.3.1 req . . . 112
6.36.3.2 resp . . . 112
6.37 rapp::cloud::login_user Class Reference . . . 112
6.37.1 Detailed Description . . . 114
6.37.2 Member Function Documentation . . . 114
6.37.2.1 available_services . . . 114
6.37.2.2 handle_reply . . . 114
6.37.3 Member Data Documentation . . . 114
6.37.3.1 delegate_ . . . 114
6.38 rapp::object::microphone_wav Class Reference . . . 114
6.38.1 Detailed Description . . . 115
6.38.2 Constructor & Destructor Documentation . . . 115
6.38.2.1 microphone_wav . . . 115
6.38.2.2 microphone_wav . . . 116
6.38.2.3 microphone_wav . . . 116
6.38.3 Member Function Documentation . . . 116
6.38.3.1 audio_source . . . 116

6.38.3.2 extension . . . 116
6.39 rapp::object::nao_quad_channel_wav Class Reference . . . 116
6.39.1 Detailed Description . . . 117
6.39.2 Constructor & Destructor Documentation . . . 117
6.39.2.1 nao_quad_channel_wav . . . 117
6.39.2.2 nao_quad_channel_wav . . . 117
6.39.3 Member Function Documentation . . . 117
6.39.3.1 audio_source . . . 117
6.39.3.2 extension . . . 117
6.40 rapp::object::nao_single_channel_wav Class Reference . . . 118
6.40.1 Detailed Description . . . 118
6.40.2 Constructor & Destructor Documentation . . . 119
6.40.2.1 nao_single_channel_wav . . . 119
6.40.2.2 nao_single_channel_wav . . . 119
6.40.3 Member Function Documentation . . . 119
6.40.3.1 audio_source . . . 119
6.40.3.2 extension . . . 119
6.41 RappCloud.Utils.Net.Net Class Reference . . . 119
6.41.1 Detailed Description . . . 120
6.41.2 Member Function Documentation . . . 120
6.41.2.1 ipaddr_connected . . . 120
6.42 rapp::cloud::news_explore Class Reference . . . 120
6.42.1 Detailed Description . . . 122
6.42.2 Constructor & Destructor Documentation . . . 122
6.42.2.1 news_explore . . . 122
6.42.3 Member Function Documentation . . . 122
6.42.3.1 handle_reply . . . 122
6.42.4 Member Data Documentation . . . 122
6.42.4.1 delegate_ . . . 122
6.43 RappCloud.CloudMsgs.NewsExplore.NewsExplore Class Reference . . . 123
6.43.1 Detailed Description . . . 124
6.43.2 Constructor & Destructor Documentation . . . 124
6.43.2.1 __init__ . . . 124
6.43.3 Member Data Documentation . . . 124
6.43.3.1 req . . . 124
6.43.3.2 resp . . . 124
6.44 rapp::cloud::object_recognition Class Reference . . . 124
6.44.1 Detailed Description . . . 126
6.44.2 Constructor & Destructor Documentation . . . 126
6.44.2.1 object_recognition . . . 126

6.44.3 Member Function Documentation . . . 126
6.44.3.1 handle_reply . . . 126
6.44.4 Member Data Documentation . . . 126
6.44.4.1 delegate__ . . . 126
6.45 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe Class Reference . . . 127
6.45.1 Detailed Description . . . 128
6.45.2 Constructor & Destructor Documentation . . . 128
6.45.2.1 __init__ . . . 128
6.45.3 Member Data Documentation . . . 128
6.45.3.1 req . . . 128
6.45.3.2 resp . . . 128
6.46 rapp::object::ogg Class Reference . . . 128
6.46.1 Detailed Description . . . 129
6.46.2 Constructor & Destructor Documentation . . . 129
6.46.2.1 ogg . . . 129
6.46.2.2 ogg . . . 129
6.46.3 Member Function Documentation . . . 129
6.46.3.1 audio_source . . . 129
6.46.3.2 extension . . . 129
6.47 rapp::cloud::ontology_is_subsuperclass_of Class Reference . . . 130
6.47.1 Detailed Description . . . 131
6.47.2 Constructor & Destructor Documentation . . . 131
6.47.2.1 ontology_is_subsuperclass_of . . . 131
6.47.3 Member Function Documentation . . . 132
6.47.3.1 handle_reply . . . 132
6.47.4 Member Data Documentation . . . 132
6.47.4.1 delegate__ . . . 132
6.48 rapp::cloud::ontology_subclasses_of Class Reference . . . 132
6.48.1 Detailed Description . . . 133
6.48.2 Constructor & Destructor Documentation . . . 134
6.48.2.1 ontology_subclasses_of . . . 134
6.48.3 Member Function Documentation . . . 134
6.48.3.1 handle_reply . . . 134
6.48.4 Member Data Documentation . . . 134
6.48.4.1 delegate__ . . . 134
6.49 rapp::cloud::ontology_superclasses_of Class Reference . . . 134
6.49.1 Detailed Description . . . 136
6.49.2 Constructor & Destructor Documentation . . . 136
6.49.2.1 ontology_superclasses_of . . . 136
6.49.3 Member Function Documentation . . . 136

6.49.3.1 handle_reply . . . 136
6.49.4 Member Data Documentation . . . 136
6.49.4.1 delegate__ . . . 136
6.50 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass Class Reference . . . 137
6.50.1 Detailed Description . . . 138
6.50.2 Constructor & Destructor Documentation . . . 138
6.50.2.1 __init__ . . . 138
6.50.3 Member Data Documentation . . . 138
6.50.3.1 req . . . 138
6.50.3.2 resp . . . 138
6.51 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses Class Reference . . . 139
6.51.1 Detailed Description . . . 140
6.51.2 Constructor & Destructor Documentation . . . 140
6.51.2.1 __init__ . . . 140
6.51.3 Member Data Documentation . . . 140
6.51.3.1 req . . . 140
6.51.3.2 resp . . . 140
6.52 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses Class Reference . . . 140
6.52.1 Detailed Description . . . 141
6.52.2 Constructor & Destructor Documentation . . . 141
6.52.2.1 __init__ . . . 141
6.52.3 Member Data Documentation . . . 142
6.52.3.1 req . . . 142
6.52.3.2 resp . . . 142
6.53 rapp::cloud::path_upload_map Class Reference . . . 142
6.53.1 Detailed Description . . . 143
6.54 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D Class Reference . . . 143
6.54.1 Detailed Description . . . 144
6.54.2 Constructor & Destructor Documentation . . . 144
6.54.2.1 __init__ . . . 144
6.54.3 Member Data Documentation . . . 145
6.54.3.1 req . . . 145
6.54.3.2 resp . . . 145
6.55 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap Class Reference . . . 145
6.55.1 Detailed Description . . . 146
6.55.2 Constructor & Destructor Documentation . . . 146
6.55.2.1 __init__ . . . 146
6.55.3 Member Data Documentation . . . 147
6.55.3.1 req . . . 147
6.55.3.2 resp . . . 147

6.56 RappCloud.Objects.Payload.Payload Class Reference . . . 147
6.56.1 Detailed Description . . . 148
6.56.2 Constructor & Destructor Documentation . . . 148
6.56.2.1 __init__ . . . 148
6.56.3 Member Function Documentation . . . 148
6.56.3.1 __eq__ . . . 148
6.56.3.2 append . . . 148
6.56.3.3 make_json . . . 148
6.56.3.4 remove . . . 149
6.56.3.5 serialize . . . 150
6.57 rapp::object::picture Class Reference . . . 150
6.57.1 Detailed Description . . . 151
6.57.2 Member Typedef Documentation . . . 151
6.57.2.1 byte . . . 151
6.57.3 Constructor & Destructor Documentation . . . 151
6.57.3.1 picture . . . 151
6.57.3.2 picture . . . 151
6.57.3.3 picture . . . 151
6.57.3.4 picture . . . 151
6.57.4 Member Function Documentation . . . 151
6.57.4.1 bytearray . . . 151
6.57.4.2 opencb_ . . . 152
6.57.4.3 operator= . . . 152
6.57.4.4 operator== . . . 152
6.57.4.5 save . . . 152
6.57.4.6 type . . . 152
6.57.5 Member Data Documentation . . . 152
6.57.5.1 bytearray_ . . . 152
6.57.5.2 imgtype_ . . . 152
6.58 plan_path2d Class Reference . . . 152
6.58.1 Detailed Description . . . 152
6.59 rapp::cloud::plan_path_2d Class Reference . . . 153
6.59.1 Detailed Description . . . 154
6.59.2 Member Typedef Documentation . . . 154
6.59.2.1 wav_file . . . 154
6.59.3 Member Function Documentation . . . 154
6.59.3.1 handle_reply . . . 154
6.59.3.2 plan_path_d2 . . . 154
6.59.4 Member Data Documentation . . . 155
6.59.4.1 delegate_ . . . 155

6.60 rapp::object::qr_code Class Reference . . . 155
6.60.1 Detailed Description . . . 155
6.60.2 Constructor & Destructor Documentation . . . 155
6.60.2.1 qr_code . . . 155
6.60.2.2 qr_code . . . 155
6.60.2.3 qr_code . . . 156
6.60.3 Member Function Documentation . . . 156
6.60.3.1 label . . . 156
6.60.3.2 operator== . . . 156
6.60.4 Member Data Documentation . . . 156
6.60.4.1 centre_x__ . . . 156
6.60.4.2 centre_y__ . . . 156
6.60.4.3 message__ . . . 156
6.61 rapp::cloud::qr_detection Class Reference . . . 156
6.61.1 Detailed Description . . . 158
6.61.2 Constructor & Destructor Documentation . . . 158
6.61.2.1 qr_detection . . . 158
6.61.3 Member Function Documentation . . . 158
6.61.3.1 handle_reply . . . 158
6.61.4 Member Data Documentation . . . 158
6.61.4.1 delegate__ . . . 158
6.62 qrCode Class Reference . . . 159
6.62.1 Detailed Description . . . 159
6.63 RappCloud.CloudMsgs.QrDetection.QrDetection Class Reference . . . 159
6.63.1 Detailed Description . . . 160
6.63.2 Constructor & Destructor Documentation . . . 160
6.63.2.1 __init__ . . . 160
6.63.3 Member Data Documentation . . . 161
6.63.3.1 req . . . 161
6.63.3.2 resp . . . 161
6.64 RappCloud.Utils.RandStrGen.RandStrGen Class Reference . . . 161
6.64.1 Detailed Description . . . 161
6.64.2 Member Function Documentation . . . 161
6.64.2.1 create . . . 161
6.65 RappCloud.ServiceController.RAPPAuth.RAPPAuth Class Reference . . . 162
6.65.1 Detailed Description . . . 163
6.65.2 Constructor & Destructor Documentation . . . 163
6.65.2.1 __init__ . . . 163
6.65.3 Member Function Documentation . . . 163
6.65.3.1 __call__ . . . 163

6.65.3.2 __load_token . . . 163
6.65.3.3 __read_token_from_file . . . 163
6.65.4 Member Data Documentation . . . 163
6.65.4.1 _token . . . 164
6.65.4.2 _tokenStoreDir . . . 164
6.66 RappCloud.RappPlatformApi.RappPlatformAPI Class Reference . . . 164
6.66.1 Detailed Description . . . 165
6.66.2 Constructor & Destructor Documentation . . . 165
6.66.2.1 __init__ . . . 165
6.66.3 Member Function Documentation . . . 165
6.66.3.1 cognitiveExerciseSelect . . . 165
6.66.3.2 cognitiveGetHistory . . . 166
6.66.3.3 cognitiveGetScores . . . 166
6.66.3.4 cognitiveRecordPerformance . . . 167
6.66.3.5 emailFetch . . . 167
6.66.3.6 emailSend . . . 168
6.66.3.7 faceDetection . . . 169
6.66.3.8 geolocation . . . 169
6.66.3.9 hazardDetectionDoor . . . 169
6.66.3.10 hazardDetectionLights . . . 170
6.66.3.11 humanDetection . . . 171
6.66.3.12 newsExplore . . . 171
6.66.3.13 objectRecognitionCaffe . . . 172
6.66.3.14 ontologyIsSubsuperclass . . . 172
6.66.3.15 ontologySubclasses . . . 172
6.66.3.16 ontologySuperclasses . . . 173
6.66.3.17 pathPlanningPlan2D . . . 173
6.66.3.18 pathPlanningUploadMap . . . 174
6.66.3.19 qrDetection . . . 174
6.66.3.20 setNoiseProfile . . . 175
6.66.3.21 speechRecognitionGoogle . . . 176
6.66.3.22 speechRecognitionSphinx . . . 176
6.66.3.23 textToSpeech . . . 177
6.66.3.24 weatherReportCurrent . . . 177
6.66.3.25 weatherReportForecast . . . 178
6.66.4 Member Data Documentation . . . 178
6.66.4.1 svc_caller . . . 178
6.67 RappCloud.Service.RappPlatformService.RappPlatformService Class Reference . . . 179
6.67.1 Detailed Description . . . 180
6.67.2 Constructor & Destructor Documentation . . . 180

6.67.2.1 __init__ . . . 180
6.67.3 Member Function Documentation . . . 180
6.67.3.1 __load_platform_cfg . . . 180
6.67.3.2 _make_url . . . 180
6.67.3.3 call . . . 181
6.67.3.4 call_async . . . 181
6.67.3.5 persistent . . . 181
6.67.3.6 persistent . . . 181
6.67.3.7 req . . . 181
6.67.3.8 resp . . . 181
6.67.3.9 resp . . . 181
6.67.3.10 timeout . . . 181
6.67.3.11 timeout . . . 182
6.67.4 Member Data Documentation . . . 182
6.67.4.1 __cloudObj . . . 182
6.67.4.2 __controller . . . 182
6.67.4.3 __controllerAsync . . . 182
6.67.4.4 __persistent . . . 182
6.67.4.5 __platformParams . . . 182
6.67.4.6 __timeout . . . 182
6.68 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request Class Reference . . . 183
6.68.1 Detailed Description . . . 184
6.68.2 Constructor & Destructor Documentation . . . 184
6.68.2.1 __init__ . . . 184
6.68.3 Member Function Documentation . . . 184
6.68.3.1 make_files . . . 184
6.68.3.2 make_payload . . . 184
6.68.4 Member Data Documentation . . . 184
6.68.4.1 test_type . . . 184
6.68.4.2 time_from . . . 185
6.68.4.3 time_to . . . 185
6.69 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request Class Reference . . . 185
6.69.1 Detailed Description . . . 186
6.69.2 Constructor & Destructor Documentation . . . 186
6.69.2.1 __init__ . . . 186
6.69.3 Member Function Documentation . . . 186
6.69.3.1 make_files . . . 186
6.69.3.2 make_payload . . . 186
6.69.4 Member Data Documentation . . . 187

6.69.4.1 audio_source . . . 187
6.69.4.2 audiofile . . . 187
6.69.4.3 language . . . 187
6.70 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request Class Reference . . . 187
6.70.1 Detailed Description . . . 188
6.70.2 Constructor & Destructor Documentation . . . 188
6.70.2.1 __init__ . . . 188
6.70.3 Member Function Documentation . . . 189
6.70.3.1 make_files . . . 189
6.70.3.2 make_payload . . . 189
6.70.4 Member Data Documentation . . . 189
6.70.4.1 audio_source . . . 189
6.70.4.2 audiofile . . . 189
6.70.4.3 grammar . . . 189
6.70.4.4 language . . . 189
6.70.4.5 sentences . . . 190
6.70.4.6 words . . . 190
6.71 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request Class Reference . . . 190
6.71.1 Detailed Description . . . 191
6.71.2 Constructor & Destructor Documentation . . . 191
6.71.2.1 __init__ . . . 191
6.71.3 Member Function Documentation . . . 191
6.71.3.1 make_files . . . 191
6.71.3.2 make_payload . . . 191
6.71.4 Member Data Documentation . . . 191
6.71.4.1 imageFilepath . . . 191
6.72 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request Class Reference . . . 192
6.72.1 Detailed Description . . . 193
6.72.2 Constructor & Destructor Documentation . . . 193
6.72.2.1 __init__ . . . 193
6.72.3 Member Function Documentation . . . 193
6.72.3.1 make_files . . . 193
6.72.3.2 make_payload . . . 193
6.72.4 Member Data Documentation . . . 194
6.72.4.1 algorithm . . . 194
6.72.4.2 map_name . . . 194
6.72.4.3 pose_goal . . . 194
6.72.4.4 pose_start . . . 194
6.72.4.5 robot_type . . . 194

6.73 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request Class Reference . . . 195
6.73.1 Detailed Description . . . 196
6.73.2 Constructor & Destructor Documentation . . . 196
6.73.2.1 __init__ . . . 196
6.73.3 Member Function Documentation . . . 196
6.73.3.1 make_files . . . 196
6.73.3.2 make_payload . . . 196
6.73.4 Member Data Documentation . . . 196
6.73.4.1 language . . . 196
6.73.4.2 text . . . 196
6.74 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request Class Reference . 197
6.74.1 Detailed Description . . . 198
6.74.2 Constructor & Destructor Documentation . . . 198
6.74.2.1 __init__ . . . 198
6.74.3 Member Function Documentation . . . 198
6.74.3.1 make_files . . . 198
6.74.3.2 make_payload . . . 198
6.74.4 Member Data Documentation . . . 198
6.74.4.1 city . . . 198
6.74.4.2 metric . . . 199
6.74.4.3 weather_reporter . . . 199
6.75 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request Class Reference 199
6.75.1 Detailed Description . . . 200
6.75.2 Constructor & Destructor Documentation . . . 200
6.75.2.1 __init__ . . . 200
6.75.3 Member Function Documentation . . . 200
6.75.3.1 make_files . . . 200
6.75.3.2 make_payload . . . 200
6.75.4 Member Data Documentation . . . 201
6.75.4.1 city . . . 201
6.75.4.2 metric . . . 201
6.75.4.3 weather_reporter . . . 201
6.76 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request Class Reference . . . 201
6.76.1 Detailed Description . . . 202
6.76.2 Constructor & Destructor Documentation . . . 202
6.76.2.1 __init__ . . . 202
6.76.3 Member Function Documentation . . . 203
6.76.3.1 make_files . . . 203
6.76.3.2 make_payload . . . 203
6.76.4 Member Data Documentation . . . 203

6.76.4.1 exclude_titles . . . 203
6.76.4.2 keywords . . . 203
6.76.4.3 news_engine . . . 203
6.76.4.4 num_news . . . 203
6.76.4.5 region . . . 204
6.76.4.6 topic . . . 204
6.77 RappCloud.CloudMsgs.EmailSend.EmailSend.Request Class Reference . . . 204
6.77.1 Detailed Description . . . 205
6.77.2 Constructor & Destructor Documentation . . . 205
6.77.2.1 __init__ . . . 205
6.77.3 Member Function Documentation . . . 206
6.77.3.1 make_files . . . 206
6.77.3.2 make_payload . . . 206
6.77.4 Member Data Documentation . . . 206
6.77.4.1 attach_file . . . 206
6.77.4.2 body . . . 206
6.77.4.3 email . . . 206
6.77.4.4 password . . . 207
6.77.4.5 port . . . 207
6.77.4.6 recipients . . . 207
6.77.4.7 server . . . 207
6.77.4.8 subject . . . 207
6.78 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request Class Reference 208
6.78.1 Detailed Description . . . 209
6.78.2 Constructor & Destructor Documentation . . . 209
6.78.2.1 __init__ . . . 209
6.78.3 Member Function Documentation . . . 209
6.78.3.1 make_files . . . 209
6.78.3.2 make_payload . . . 209
6.78.4 Member Data Documentation . . . 209
6.78.4.1 test_diff . . . 209
6.78.4.2 test_index . . . 210
6.78.4.3 test_subtype . . . 210
6.78.4.4 test_type . . . 210
6.79 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request Class Reference 210
6.79.1 Detailed Description . . . 211
6.79.2 Constructor & Destructor Documentation . . . 211
6.79.2.1 __init__ . . . 211
6.79.3 Member Function Documentation . . . 212
6.79.3.1 make_files . . . 212

6.79.3.2 make_payload . . . 212
6.79.4 Member Data Documentation . . . 212
6.79.4.1 imageFilepath . . . 212
6.80 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request Class Reference . . . 212
6.80.1 Detailed Description . . . 213
6.80.2 Constructor & Destructor Documentation . . . 213
6.80.2.1 __init__ . . . 213
6.80.3 Member Function Documentation . . . 214
6.80.3.1 make_files . . . 214
6.80.3.2 make_payload . . . 214
6.80.4 Member Data Documentation . . . 214
6.80.4.1 test_type . . . 214
6.80.4.2 time_to . . . 214
6.81 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request Class Reference . . . 215
6.81.1 Detailed Description . . . 216
6.81.2 Constructor & Destructor Documentation . . . 216
6.81.2.1 __init__ . . . 216
6.81.3 Member Function Documentation . . . 216
6.81.3.1 make_files . . . 216
6.81.3.2 make_payload . . . 216
6.81.4 Member Data Documentation . . . 216
6.81.4.1 imageFilepath . . . 216
6.82 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request Class Reference . . . 217
6.82.1 Detailed Description . . . 218
6.82.2 Constructor & Destructor Documentation . . . 218
6.82.2.1 __init__ . . . 218
6.82.3 Member Function Documentation . . . 218
6.82.3.1 make_files . . . 218
6.82.3.2 make_payload . . . 218
6.82.4 Member Data Documentation . . . 218
6.82.4.1 child_class . . . 218
6.82.4.2 parent_class . . . 218
6.82.4.3 recursive . . . 219
6.83 RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request Class Reference . . . 219
6.83.1 Detailed Description . . . 220
6.83.2 Constructor & Destructor Documentation . . . 220
6.83.2.1 __init__ . . . 220
6.83.3 Member Function Documentation . . . 220
6.83.3.1 make_files . . . 220

6.83.3.2 make_payload . . . 220
6.83.4 Member Data Documentation . . . 220
6.83.4.1 fast . . . 220
6.83.4.2 imageFilepath . . . 221
6.84 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request Class Reference . . . 221
6.84.1 Detailed Description . . . 222
6.84.2 Constructor & Destructor Documentation . . . 222
6.84.2.1 __init__ . . . 222
6.84.3 Member Function Documentation . . . 222
6.84.3.1 make_files . . . 222
6.84.3.2 make_payload . . . 222
6.84.4 Member Data Documentation . . . 222
6.84.4.1 ontology_class . . . 222
6.84.4.2 recursive . . . 223
6.85 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request Class Reference . . . 223
6.85.1 Detailed Description . . . 224
6.85.2 Constructor & Destructor Documentation . . . 224
6.85.2.1 __init__ . . . 224
6.85.3 Member Function Documentation . . . 224
6.85.3.1 make_files . . . 224
6.85.3.2 make_payload . . . 224
6.85.4 Member Data Documentation . . . 224
6.85.4.1 ontology_class . . . 224
6.85.4.2 recursive . . . 225
6.86 RappCloud.CloudMsgs.Geolocation.Geolocation.Request Class Reference . . . 225
6.86.1 Detailed Description . . . 226
6.86.2 Constructor & Destructor Documentation . . . 226
6.86.2.1 __init__ . . . 226
6.86.3 Member Function Documentation . . . 226
6.86.3.1 make_files . . . 226
6.86.3.2 make_payload . . . 226
6.86.4 Member Data Documentation . . . 226
6.86.4.1 engine . . . 226
6.86.4.2 ipaddr . . . 227
6.87 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request Class Reference . . . 227
6.87.1 Detailed Description . . . 228
6.87.2 Constructor & Destructor Documentation . . . 228
6.87.2.1 __init__ . . . 228
6.87.3 Member Function Documentation . . . 229
6.87.3.1 make_files . . . 229

6.87.3.2 make_payload . . . 229
6.87.4 Member Data Documentation . . . 229
6.87.4.1 date_from . . . 229
6.87.4.2 date_to . . . 229
6.87.4.3 email . . . 229
6.87.4.4 email_status . . . 229
6.87.4.5 num_emails . . . 229
6.87.4.6 password . . . 229
6.87.4.7 port . . . 230
6.87.4.8 server . . . 230
6.88 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request Class Reference . . . 230
6.88.1 Detailed Description . . . 231
6.88.2 Constructor & Destructor Documentation . . . 231
6.88.2.1 __init__ . . . 231
6.88.3 Member Function Documentation . . . 232
6.88.3.1 make_files . . . 232
6.88.3.2 make_payload . . . 232
6.88.4 Member Data Documentation . . . 232
6.88.4.1 imageFilepath . . . 232
6.89 RappCloud.CloudMsgs.QrDetection.QrDetection.Request Class Reference . . . 232
6.89.1 Detailed Description . . . 233
6.89.2 Constructor & Destructor Documentation . . . 233
6.89.2.1 __init__ . . . 233
6.89.3 Member Function Documentation . . . 233
6.89.3.1 make_files . . . 233
6.89.3.2 make_payload . . . 234
6.89.4 Member Data Documentation . . . 234
6.89.4.1 imageFilepath . . . 234
6.90 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request Class Reference 234
6.90.1 Detailed Description . . . 235
6.90.2 Constructor & Destructor Documentation . . . 235
6.90.2.1 __init__ . . . 235
6.90.3 Member Function Documentation . . . 236
6.90.3.1 make_files . . . 236
6.90.3.2 make_payload . . . 236
6.90.4 Member Data Documentation . . . 236
6.90.4.1 map_name . . . 236
6.90.4.2 png_file . . . 236
6.90.4.3 yaml_file . . . 236

6.91 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request Class Reference . . . 237
6.91.1 Detailed Description . . . 238
6.91.2 Constructor & Destructor Documentation . . . 238
6.91.2.1 __init__ . . . 238
6.91.3 Member Function Documentation . . . 238
6.91.3.1 make_files . . . 238
6.91.3.2 make_payload . . . 238
6.91.4 Member Data Documentation . . . 238
6.91.4.1 score . . . 238
6.91.4.2 test_instance . . . 238
6.92 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request Class Reference . . . 239
6.92.1 Detailed Description . . . 240
6.92.2 Constructor & Destructor Documentation . . . 240
6.92.2.1 __init__ . . . 240
6.92.3 Member Function Documentation . . . 240
6.92.3.1 make_files . . . 240
6.92.3.2 make_payload . . . 240
6.92.4 Member Data Documentation . . . 240
6.92.4.1 audio_source . . . 240
6.92.4.2 audiofile . . . 240
6.93 RappCloud.CloudMsgs.QrDetection.QrDetection.Response Class Reference . . . 241
6.93.1 Detailed Description . . . 242
6.93.2 Constructor & Destructor Documentation . . . 242
6.93.2.1 __init__ . . . 242
6.93.3 Member Data Documentation . . . 242
6.93.3.1 error . . . 242
6.93.3.2 qr_centers . . . 242
6.93.3.3 qr_messages . . . 242
6.94 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response Class Reference 243
6.94.1 Detailed Description . . . 244
6.94.2 Constructor & Destructor Documentation . . . 244
6.94.2.1 __init__ . . . 244
6.94.3 Member Data Documentation . . . 245
6.94.3.1 date . . . 245
6.94.3.2 error . . . 245
6.94.3.3 humidity . . . 245
6.94.3.4 pressure . . . 245
6.94.3.5 temperature . . . 245
6.94.3.6 visibility . . . 245

6.94.3.7 weather_description . . . 245
6.94.3.8 wind_direction . . . 245
6.94.3.9 wind_speed . . . 245
6.94.3.10 wind_temperature . . . 246
6.95 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response Class Reference . . . 246
6.95.1 Detailed Description . . . 247
6.95.2 Constructor & Destructor Documentation . . . 247
6.95.2.1 __init__ . . . 247
6.95.3 Member Data Documentation . . . 247
6.95.3.1 error . . . 247
6.95.3.2 results . . . 247
6.96 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response Class Reference . . . 248
6.96.1 Detailed Description . . . 249
6.96.2 Constructor & Destructor Documentation . . . 249
6.96.2.1 __init__ . . . 249
6.96.3 Member Data Documentation . . . 249
6.96.3.1 error . . . 249
6.96.3.2 light_level . . . 249
6.97 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response Class Reference . . . 250
6.97.1 Detailed Description . . . 251
6.97.2 Constructor & Destructor Documentation . . . 251
6.97.2.1 __init__ . . . 251
6.97.3 Member Data Documentation . . . 251
6.97.3.1 error . . . 251
6.97.3.2 performance_entry . . . 251
6.98 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response Class Reference . . . 252
6.98.1 Detailed Description . . . 253
6.98.2 Constructor & Destructor Documentation . . . 253
6.98.2.1 __init__ . . . 253
6.98.3 Member Function Documentation . . . 253
6.98.3.1 get_audio_raw . . . 253
6.98.3.2 store_audio . . . 253
6.98.4 Member Data Documentation . . . 253
6.98.4.1 basename . . . 253
6.98.4.2 encoding . . . 254
6.98.4.3 error . . . 254
6.98.4.4 payload . . . 254
6.99 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response Class Reference . . . 254

6.99.1 Detailed Description . . . 255
6.99.2 Constructor & Destructor Documentation . . . 255
6.99.2.1 __init__ . . . 255
6.99.3 Member Data Documentation . . . 256
6.99.3.1 error . . . 256
6.99.3.2 result . . . 256
6.100 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response Class Reference . . . 256
6.100.1 Detailed Description . . . 257
6.100.2 Constructor & Destructor Documentation . . . 257
6.100.2.1 __init__ . . . 257
6.100.3 Member Data Documentation . . . 258
6.100.3.1 alternatives . . . 258
6.100.3.2 error . . . 258
6.100.3.3 words . . . 258
6.101 RappCloud.CloudMsgs.EmailSend.EmailSend.Response Class Reference . . . 258
6.101.1 Detailed Description . . . 259
6.101.2 Constructor & Destructor Documentation . . . 259
6.101.2.1 __init__ . . . 259
6.101.3 Member Data Documentation . . . 259
6.101.3.1 error . . . 259
6.102 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response Class Reference . . . 260
6.102.1 Detailed Description . . . 261
6.102.2 Constructor & Destructor Documentation . . . 261
6.102.2.1 __init__ . . . 261
6.102.3 Member Data Documentation . . . 261
6.102.3.1 emails . . . 261
6.102.3.2 error . . . 261
6.103 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response Class Reference . . . 262
6.103.1 Detailed Description . . . 262
6.103.2 Constructor & Destructor Documentation . . . 263
6.103.2.1 __init__ . . . 263
6.103.3 Member Data Documentation . . . 263
6.103.3.1 error . . . 263
6.103.3.2 records . . . 263
6.104 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response Class Reference . . . 264
6.104.1 Detailed Description . . . 265
6.104.2 Constructor & Destructor Documentation . . . 265
6.104.2.1 __init__ . . . 265
6.104.3 Member Data Documentation . . . 265

6.104.3.1 door_angle . . . 265
6.104.3.2 error . . . 265
6.105 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response Class Reference . . . 266
6.105.1 Detailed Description . . . 266
6.105.2 Constructor & Destructor Documentation . . . 267
6.105.2.1 __init__ . . . 267
6.105.3 Member Data Documentation . . . 267
6.105.3.1 error . . . 267
6.105.3.2 news_stories . . . 267
6.106 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response Class Reference 267
6.106.1 Detailed Description . . . 268
6.106.2 Constructor & Destructor Documentation . . . 268
6.106.2.1 __init__ . . . 268
6.106.3 Member Data Documentation . . . 269
6.106.3.1 error . . . 269
6.106.3.2 forecast . . . 269
6.107 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response Class Reference 269
6.107.1 Detailed Description . . . 270
6.107.2 Constructor & Destructor Documentation . . . 270
6.107.2.1 __init__ . . . 270
6.107.3 Member Data Documentation . . . 271
6.107.3.1 error . . . 271
6.107.3.2 object_class . . . 271
6.108 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response Class Reference . . . 271
6.108.1 Detailed Description . . . 272
6.108.2 Constructor & Destructor Documentation . . . 272
6.108.2.1 __init__ . . . 272
6.108.3 Member Data Documentation . . . 272
6.108.3.1 error . . . 273
6.109 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response Class Reference . . . 273
6.109.1 Detailed Description . . . 274
6.109.2 Constructor & Destructor Documentation . . . 274
6.109.2.1 __init__ . . . 274
6.109.3 Member Data Documentation . . . 274
6.109.3.1 error . . . 274
6.109.3.2 words . . . 274
6.110 RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response Class Reference . . . 275
6.110.1 Detailed Description . . . 275

6.110.2 Constructor & Destructor Documentation . . . 276
6.110.2.1 __init__ . . . 276
6.110.3 Member Data Documentation . . . 276
6.110.3.1 error . . . 276
6.110.3.2 faces . . . 276
6.111 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response Class Reference . . . 276
6.111.1 Detailed Description . . . 277
6.111.2 Constructor & Destructor Documentation . . . 277
6.111.2.1 __init__ . . . 277
6.111.3 Member Data Documentation . . . 278
6.111.3.1 error . . . 278
6.111.3.2 results . . . 278
6.112 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response Class Reference . . . 278
6.112.1 Detailed Description . . . 279
6.112.2 Constructor & Destructor Documentation . . . 279
6.112.2.1 __init__ . . . 279
6.112.3 Member Data Documentation . . . 280
6.112.3.1 error . . . 280
6.112.3.2 path . . . 280
6.112.3.3 plan_found . . . 280
6.113 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response Class Reference . . . 280
6.113.1 Detailed Description . . . 281
6.113.2 Constructor & Destructor Documentation . . . 281
6.113.2.1 __init__ . . . 281
6.113.3 Member Data Documentation . . . 282
6.113.3.1 error . . . 282
6.113.3.2 humans . . . 282
6.114 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response Class Reference . . . 282
6.114.1 Detailed Description . . . 283
6.114.2 Constructor & Destructor Documentation . . . 283
6.114.2.1 __init__ . . . 283
6.114.3 Member Data Documentation . . . 283
6.114.3.1 error . . . 283
6.114.3.2 scores . . . 283
6.114.3.3 test_classes . . . 284
6.115 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response Class Reference 284
6.115.1 Detailed Description . . . 285
6.115.2 Constructor & Destructor Documentation . . . 285
6.115.2.1 __init__ . . . 285
6.115.3 Member Data Documentation . . . 285

6.115.3.1 correct_ans . . . 285
6.115.3.2 error . . . 286
6.115.3.3 possib_ans . . . 286
6.115.3.4 questions . . . 286
6.115.3.5 test_instance . . . 286
6.115.3.6 test_subtype . . . 286
6.115.3.7 test_type . . . 286
6.116 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response Class Reference . . . 287
6.116.1 Detailed Description . . . 287
6.116.2 Constructor & Destructor Documentation . . . 288
6.116.2.1 __init__ . . . 288
6.116.3 Member Data Documentation . . . 288
6.116.3.1 error . . . 288
6.117 RappCloud.CloudMsgs.Geolocation.Geolocation.Response Class Reference . . . 288
6.117.1 Detailed Description . . . 289
6.117.2 Constructor & Destructor Documentation . . . 290
6.117.2.1 __init__ . . . 290
6.117.3 Member Data Documentation . . . 291
6.117.3.1 city . . . 291
6.117.3.2 country . . . 291
6.117.3.3 country_code . . . 291
6.117.3.4 error . . . 291
6.117.3.5 latitude . . . 291
6.117.3.6 longtitude . . . 291
6.117.3.7 region . . . 292
6.117.3.8 timezone . . . 292
6.117.3.9 zip . . . 292
6.118 rapp::cloud::service_controller Class Reference . . . 292
6.118.1 Detailed Description . . . 292
6.118.2 Constructor & Destructor Documentation . . . 293
6.118.2.1 service_controller . . . 293
6.118.3 Member Function Documentation . . . 293
6.118.3.1 run_job . . . 293
6.118.3.2 run_jobs . . . 293
6.118.3.3 stop . . . 294
6.118.4 Member Data Documentation . . . 294
6.118.4.1 io_ . . . 294
6.118.4.2 query_ . . . 294
6.118.4.3 resol_ . . . 294
6.119 RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync Class Reference . . . 294

6.119.1 Detailed Description . . . 295
6.119.2 Constructor & Destructor Documentation . . . 295
6.119.2.1 __init__ . . . 295
6.119.3 Member Function Documentation . . . 296
6.119.3.1 _worker_exec . . . 296
6.119.3.2 run_job . . . 296
6.119.4 Member Data Documentation . . . 296
6.119.4.1 __threadPool . . . 296
6.120 RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase Class Reference . . . 296
6.120.1 Detailed Description . . . 298
6.120.2 Constructor & Destructor Documentation . . . 298
6.120.2.1 __init__ . . . 298
6.120.3 Member Function Documentation . . . 298
6.120.3.1 __mount_adapters . . . 298
6.120.3.2 _post_persistent . . . 298
6.120.3.3 _post_session_once . . . 298
6.120.3.4 basename . . . 299
6.120.3.5 handle_exception . . . 299
6.120.3.6 is_json . . . 299
6.120.3.7 post_request . . . 299
6.120.3.8 run_job . . . 299
6.120.4 Member Data Documentation . . . 299
6.120.4.1 __auth . . . 300
6.120.4.2 __customHeaders . . . 300
6.120.4.3 _service . . . 300
6.120.4.4 session_ . . . 300
6.121 RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync Class Reference . . . 300
6.121.1 Detailed Description . . . 301
6.121.2 Constructor & Destructor Documentation . . . 301
6.121.2.1 __init__ . . . 301
6.121.3 Member Function Documentation . . . 301
6.121.3.1 run_job . . . 301
6.122 rapp::cloud::set_denoise_profile Class Reference . . . 302
6.122.1 Detailed Description . . . 303
6.122.2 Constructor & Destructor Documentation . . . 303
6.122.2.1 set_denoise_profile . . . 303
6.122.3 Member Function Documentation . . . 303
6.122.3.1 handle_reply . . . 303
6.123 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile Class Reference . . . 304
6.123.1 Detailed Description . . . 305

6.123.2 Constructor & Destructor Documentation . . . 305
6.123.2.1 __init__ . . . 305
6.123.3 Member Data Documentation . . . 305
6.123.3.1 req . . . 305
6.123.3.2 resp . . . 305
6.124 rapp::cloud::speech_detection_google Class Reference . . . 305
6.124.1 Detailed Description . . . 307
6.124.2 Constructor & Destructor Documentation . . . 307
6.124.2.1 speech_detection_google . . . 307
6.124.3 Member Function Documentation . . . 308
6.124.3.1 handle_reply . . . 308
6.124.4 Member Data Documentation . . . 308
6.124.4.1 delegate_ . . . 308
6.125 rapp::cloud::speech_detection_sphinx4 Class Reference . . . 308
6.125.1 Detailed Description . . . 309
6.125.2 Constructor & Destructor Documentation . . . 310
6.125.2.1 speech_detection_sphinx4 . . . 310
6.125.3 Member Function Documentation . . . 310
6.125.3.1 handle_reply . . . 310
6.125.4 Member Data Documentation . . . 310
6.125.4.1 delegate_ . . . 310
6.126 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle Class Reference . . . 311
6.126.1 Detailed Description . . . 312
6.126.2 Constructor & Destructor Documentation . . . 312
6.126.2.1 __init__ . . . 312
6.126.3 Member Data Documentation . . . 312
6.126.3.1 req . . . 312
6.126.3.2 resp . . . 312
6.127 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx Class Reference . . . 313
6.127.1 Detailed Description . . . 314
6.127.2 Constructor & Destructor Documentation . . . 314
6.127.2.1 __init__ . . . 314
6.127.3 Member Data Documentation . . . 314
6.127.3.1 req . . . 314
6.127.3.2 resp . . . 314
6.128 RappCloud.ServiceController.Adapters.SSL23Adapter Class Reference . . . 315
6.128.1 Detailed Description . . . 316
6.128.2 Constructor & Destructor Documentation . . . 316
6.128.2.1 __init__ . . . 316
6.129 RappCloud.ServiceController.Adapters.SSL2Adapter Class Reference . . . 316

6.129.1 Detailed Description . . . 317
6.129.2 Constructor & Destructor Documentation . . . 317
6.129.2.1 __init__ . . . 317
6.130 RappCloud.ServiceController.Adapters.SSL3Adapter Class Reference . . . 318
6.130.1 Detailed Description . . . 319
6.130.2 Constructor & Destructor Documentation . . . 319
6.130.2.1 __init__ . . . 319
6.131 RappCloud.ServiceController.Adapters.SSLAdapter Class Reference . . . 319
6.131.1 Detailed Description . . . 320
6.131.2 Constructor & Destructor Documentation . . . 320
6.131.2.1 __init__ . . . 320
6.131.3 Member Function Documentation . . . 320
6.131.3.1 init_poolmanager . . . 320
6.131.4 Member Data Documentation . . . 320
6.131.4.1 poolmanager . . . 320
6.131.4.2 ssl_version . . . 321
6.132 RappCloud.ServiceController.Adapters.SSLDef Class Reference . . . 321
6.132.1 Detailed Description . . . 321
6.132.2 Member Data Documentation . . . 321
6.132.2.1 SSLv2 . . . 321
6.132.2.2 SSLv2_3 . . . 321
6.132.2.3 SSLv3 . . . 321
6.132.2.4 TLSv1 . . . 321
6.132.2.5 TLSv1_1 . . . 321
6.132.2.6 TLSv1_2 . . . 322
6.133 rapp::cloud::text_to_speech Class Reference . . . 322
6.133.1 Detailed Description . . . 323
6.133.2 Member Typedef Documentation . . . 323
6.133.2.1 wav_file . . . 323
6.133.3 Constructor & Destructor Documentation . . . 323
6.133.3.1 text_to_speech . . . 323
6.133.4 Member Function Documentation . . . 324
6.133.4.1 handle_reply . . . 324
6.133.5 Member Data Documentation . . . 324
6.133.5.1 delegate_ . . . 324
6.134 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech Class Reference . . . 324
6.134.1 Detailed Description . . . 325
6.134.2 Constructor & Destructor Documentation . . . 325
6.134.2.1 __init__ . . . 325
6.134.3 Member Data Documentation . . . 326

6.134.3.1 req . . . 326
6.134.3.2 resp . . . 326
6.135 RappCloud.ServiceController.Adapters.TLS11Adapter Class Reference . . . 326
6.135.1 Detailed Description . . . 327
6.135.2 Constructor & Destructor Documentation . . . 327
6.135.2.1 __init__ . . . 327
6.136 RappCloud.ServiceController.Adapters.TLS12Adapter Class Reference . . . 328
6.136.1 Detailed Description . . . 329
6.136.2 Constructor & Destructor Documentation . . . 329
6.136.2.1 __init__ . . . 329
6.137 RappCloud.ServiceController.Adapters.TLS1Adapter Class Reference . . . 329
6.137.1 Detailed Description . . . 330
6.137.2 Constructor & Destructor Documentation . . . 330
6.137.2.1 __init__ . . . 330
6.138 RappCloud.ServiceController.Adapters.TLSAdapter Class Reference . . . 331
6.138.1 Detailed Description . . . 332
6.138.2 Constructor & Destructor Documentation . . . 332
6.138.2.1 __init__ . . . 332
6.139 rapp::cloud::weather_report_current Class Reference . . . 332
6.139.1 Detailed Description . . . 333
6.139.2 Constructor & Destructor Documentation . . . 334
6.139.2.1 weather_report_current . . . 334
6.139.3 Member Function Documentation . . . 335
6.139.3.1 handle_reply . . . 335
6.139.4 Member Data Documentation . . . 335
6.139.4.1 delegate_ . . . 335
6.140 rapp::cloud::weather_report_forecast Class Reference . . . 335
6.140.1 Detailed Description . . . 336
6.140.2 Constructor & Destructor Documentation . . . 337
6.140.2.1 weather_report_forecast . . . 337
6.140.3 Member Function Documentation . . . 338
6.140.3.1 handle_reply . . . 338
6.140.4 Member Data Documentation . . . 338
6.140.4.1 delegate_ . . . 338
6.141 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent Class Reference . . . 338
6.141.1 Detailed Description . . . 339
6.141.2 Constructor & Destructor Documentation . . . 339
6.141.2.1 __init__ . . . 339
6.141.3 Member Data Documentation . . . 340
6.141.3.1 req . . . 340

6.141.3.2 resp . . . 340
6.142 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast Class Reference . . . 340
6.142.1 Detailed Description . . . 341
6.142.2 Constructor & Destructor Documentation . . . 341
6.142.2.1 __init__ . . . 341
6.142.3 Member Data Documentation . . . 341
6.142.3.1 req . . . 341
6.142.3.2 resp . . . 341

7 File Documentation **343**

7.1 /home/travis/rapp_temp/rapp-api/cpp/examples/asio_tls.cpp File Reference . . . 343
7.1.1 Function Documentation . . . 343
7.1.1.1 main . . . 343
7.2 /home/travis/rapp_temp/rapp-api/cpp/examples/face_detect.cpp File Reference . . . 343
7.2.1 Function Documentation . . . 344
7.2.1.1 main . . . 344
7.3 /home/travis/rapp_temp/rapp-api/cpp/examples/fetch_data.cpp File Reference . . . 344
7.4 /home/travis/rapp_temp/rapp-api/cpp/examples/ontology_example.cpp File Reference . . . 344
7.4.1 Function Documentation . . . 344
7.4.1.1 main . . . 344
7.5 /home/travis/rapp_temp/rapp-api/cpp/examples/picture_example.cpp File Reference . . . 345
7.5.1 Function Documentation . . . 345
7.5.1.1 main . . . 345
7.6 /home/travis/rapp_temp/rapp-api/cpp/examples/qr_detect.cpp File Reference . . . 345
7.6.1 Function Documentation . . . 346
7.6.1.1 main . . . 346
7.7 /home/travis/rapp_temp/rapp-api/cpp/examples/set_denoise_example.cpp File Reference . . . 346
7.7.1 Function Documentation . . . 346
7.7.1.1 main . . . 346
7.8 /home/travis/rapp_temp/rapp-api/cpp/examples/speech_to_text.cpp File Reference . . . 346
7.8.1 Function Documentation . . . 347
7.8.1.1 load_jsgf . . . 347
7.8.1.2 main . . . 347
7.8.1.3 operator<< . . . 347
7.9 /home/travis/rapp_temp/rapp-api/cpp/examples/text_to_speech.cpp File Reference . . . 347
7.9.1 Function Documentation . . . 348
7.9.1.1 main . . . 348
7.10 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.cpp File Reference 348
7.11 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.hpp File Reference 348
7.12 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/includes.ihh File Reference . . . 349

7.13 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/includes.ihh File Reference . 350
7.14 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/includes.ihh File Reference 350
7.15 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/includes.ihh File Reference 351
7.16 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/includes.ihh File Reference 352
7.17 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/includes.ihh File Reference 353
7.18 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/includes.ihh File Reference 354
7.19 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/includes.ihh File Reference 356
7.20 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/includes.ihh File Reference 356
7.21 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/includes.ihh File Reference 358
7.22 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/includes.ihh File Reference 358
7.23 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/includes.ihh File Reference 359
7.24 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/includes.ihh File Reference 360
7.25 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/includes.ihh File Reference 361
7.26 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/includes.ihh File Reference 363
7.27 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/includes.ihh File Reference 363
7.28 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/includes.ihh File Reference 364
7.29 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/includes.ihh File Reference 366
7.30 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/includes.ihh File Reference366
7.31 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/includes.ihh File Reference 367
7.32 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/includes.ihh File Reference 368
7.33 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/includes.ihh File Reference 370
7.34 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/includes.ihh File Reference 371
7.35 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/includes.ihh File Reference . . 372
7.36 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/includes.ihh File Reference 373
7.37 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/includes.ihh File Reference 375
7.38 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/includes.ihh File Reference 376
7.39 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/includes.ihh File Reference 377
7.40 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/includes.ihh File Reference 377
7.41 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.cpp File Reference 379
7.42 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.hpp File Reference 380
7.43 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/asio_socket.hpp File Reference . 380
7.44 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.cpp File Reference 381

7.45 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.hpp File Reference . . . 382
7.46 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/available_services.hpp File Reference . . . 383
7.47 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp File Reference . . . 384
7.48 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp File Reference . . . 385
7.49 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/fetch_personal_data.hpp File Reference . . . 386
7.50 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/geolocation.hpp File Reference . . . 386
7.51 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/path_planning.hpp File Reference . . . 387
7.52 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/news.hpp File Reference . . . 388
7.53 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp File Reference . . . 389
7.54 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/service_controller.cpp File Reference . . . 390
7.55 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/service_controller.hpp File Reference . . . 391
7.56 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/set_denoise_profile.hpp File Reference . . . 391
7.57 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/speech_detection_google.hpp File Reference . . . 392
7.58 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/speech_detection_sphinx4.hpp File Reference . . . 394
7.59 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/text_to_speech.hpp File Reference . . . 395
7.60 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/user.hpp File Reference . . . 396
7.61 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/face_detection.hpp File Reference . . . 396
7.62 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp File Reference . . . 397
7.63 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/human_detection.hpp File Reference . . . 398
7.64 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/object_recognition.hpp File Reference . . . 399
7.65 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/qr_detection.hpp File Reference . . . 400
7.66 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp File Reference . . . 401
7.67 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_basic.hpp File Reference . . . 402
7.68 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_core.hpp File Reference . . . 403
7.69 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_extra.hpp File Reference . . . 404
7.70 /home/travis/rapp_temp/rapp-api/cpp/includes/objects.hpp File Reference . . . 405
7.71 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp File Reference . . . 406
7.72 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/face.hpp File Reference . . . 407

7.73 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/globals.hpp File Reference 409
7.74 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/human.hpp File Reference 410
7.75 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/picture.hpp File Reference 411
7.76 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr_code.hpp File Reference 412
7.77 /home/travis/rapp_temp/rapp-api/cpp/includes/rapp.hpp File Reference 414
7.78 /home/travis/rapp_temp/rapp-api/python/RappCloud/__init__.py File Reference 414
7.79 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/__init__.py File Reference 414
7.80 /home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/__init__.py File Reference 414
7.81 /home/travis/rapp_temp/rapp-api/python/RappCloud/Service/__init__.py File Reference 415
7.82 /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/__init__.py File Reference . 415
7.83 /home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/__init__.py File Reference 415
7.84 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py File Reference 415
7.85 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py File Reference 415
7.86 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py File Reference 416
7.87 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py File Reference 416
7.88 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py File Reference 416
7.89 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailFetch.py File Reference . . . 416
7.90 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py File Reference . . . 417
7.91 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py File Reference . 417
7.92 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py File Reference . . 417
7.93 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py File Reference 418
7.94 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py File Reference 418
7.95 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py File Reference 418
7.96 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py File Reference . . 418
7.97 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py File Reference 419
7.98 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py File Reference 419
7.99 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py File Reference 419
7.100 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py File Reference 420
7.101 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py File Reference 420
7.102 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py File Reference 420
7.103 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py File Reference . . 420
7.104 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py File Reference 421

7.105/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionGoogle.py File Reference . . . 421
7.106/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py File Reference . . . 421
7.107/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py File Reference . 422
7.108/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportCurrent.py File Reference . . . 422
7.109/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportForecast.py File Reference . . . 422
7.110/home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/File.py File Reference . . . 422
7.110.1 Detailed Description . . . 423
7.111/home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/Payload.py File Reference . . . 423
7.111.1 Detailed Description . . . 423
7.112/home/travis/rapp_temp/rapp-api/python/RappCloud/RappPlatformApi.py File Reference . . . 423
7.112.1 Detailed Description . . . 424
7.113/home/travis/rapp_temp/rapp-api/python/RappCloud/Service/RappPlatformService.py File Reference 424
7.113.1 Detailed Description . . . 424
7.114/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py File Reference . 424
7.114.1 Detailed Description . . . 425
7.115/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/AsyncHandler.py File Reference . . . 425
7.116/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/RAPPAuth.py File Reference 425
7.116.1 Detailed Description . . . 425
7.117/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerAsync.py File Reference . . . 426
7.118/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerBase.py File Reference . . . 426
7.118.1 Detailed Description . . . 426
7.119/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerSync.py File Reference . . . 426
7.119.1 Detailed Description . . . 427
7.120/home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/DatatypeAssert.py File Reference . . . 427
7.121/home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/Net.py File Reference . . . 427
7.121.1 Detailed Description . . . 427
7.122/home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/RandStrGen.py File Reference . . . 428

Index **429**

Chapter 1

Namespace Index

1.1 Packages

Here are the packages with brief descriptions (if available):

CloudServices . . . 15
rapp . . . 15
rapp::cloud . . . 15
rapp::object . . . 17
rapp::types
    Common global types . . . 17
RappCloud . . . 18
RappCloud.CloudMsgs . . . 18
RappCloud.CloudMsgs.Cloud . . . 19
RappCloud.CloudMsgs.CognitiveExerciseSelect . . . 19
RappCloud.CloudMsgs.CognitiveGetHistory . . . 19
RappCloud.CloudMsgs.CognitiveGetScores . . . 19
RappCloud.CloudMsgs.CognitiveRecordPerformance . . . 19
RappCloud.CloudMsgs.EmailFetch . . . 19
RappCloud.CloudMsgs.EmailSend . . . 20
RappCloud.CloudMsgs.FaceDetection . . . 20
RappCloud.CloudMsgs.Geolocation . . . 20
RappCloud.CloudMsgs.HazardDetectionDoor . . . 20
RappCloud.CloudMsgs.HazardDetectionLight . . . 20
RappCloud.CloudMsgs.HumanDetection . . . 20
RappCloud.CloudMsgs.NewsExplore . . . 20
RappCloud.CloudMsgs.ObjectRecognitionCaffe . . . 21
RappCloud.CloudMsgs.OntologyIsSubsuperclass . . . 21
RappCloud.CloudMsgs.OntologySubclasses . . . 21
RappCloud.CloudMsgs.OntologySuperclasses . . . 21
RappCloud.CloudMsgs.PathPlanningPlan2D . . . 21
RappCloud.CloudMsgs.PathPlanningUploadMap . . . 21
RappCloud.CloudMsgs.QrDetection . . . 21
RappCloud.CloudMsgs.SetNoiseProfile . . . 22
RappCloud.CloudMsgs.SpeechRecognitionGoogle . . . 22
RappCloud.CloudMsgs.SpeechRecognitionSphinx . . . 22
RappCloud.CloudMsgs.TextToSpeech . . . 22
RappCloud.CloudMsgs.WeatherReportCurrent . . . 22
RappCloud.CloudMsgs.WeatherReportForecast . . . 22
RappCloud.Objects . . . 22
RappCloud.Objects.File . . . 23
RappCloud.Objects.Payload . . . 23
RappCloud.RappPlatformApi . . . 23

RappCloud.Service 23
RappCloud.Service.RappPlatformService 23
RappCloud.ServiceController 23
RappCloud.ServiceController.Adapters 23
RappCloud.ServiceController.AsyncHandler 24
RappCloud.ServiceController.RAPPAuth 24
RappCloud.ServiceController.ServiceControllerAsync 24
RappCloud.ServiceController.ServiceControllerBase 24
RappCloud.ServiceController.ServiceControllerSync 24
RappCloud.Utils 24
RappCloud.Utils.DatatypeAssert 25
RappCloud.Utils.Net 25
RappCloud.Utils.RandStrGen 25

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

rapp::cloud::asio_handler . . . 27
rapp::cloud::asio_service_http . . . 33
rapp::cloud::available_services . . . 50
rapp::cloud::cognitive_get_history . . . 58
rapp::cloud::cognitive_get_scores . . . 61
rapp::cloud::cognitive_record_performance . . . 63
rapp::cloud::cognitive_test_selector . . . 65
rapp::cloud::email_fetch . . . 75
rapp::cloud::email_send . . . 78
rapp::cloud::face_detection . . . 85
rapp::cloud::geolocation . . . 96
rapp::cloud::hazard_detection_door_check . . . 98
rapp::cloud::hazard_detection_light_check . . . 101
rapp::cloud::human_detection . . . 108
rapp::cloud::login_user . . . 112
rapp::cloud::news_explore . . . 120
rapp::cloud::object_recognition . . . 124
rapp::cloud::ontology_is_subsuperclass_of . . . 130
rapp::cloud::ontology_subclasses_of . . . 132
rapp::cloud::ontology_superclasses_of . . . 134
rapp::cloud::path_upload_map . . . 142
rapp::cloud::plan_path_2d . . . 153
rapp::cloud::qr_detection . . . 156
rapp::cloud::set_denoise_profile . . . 302
rapp::cloud::speech_detection_google . . . 305
rapp::cloud::speech_detection_sphinx4 . . . 308
rapp::cloud::text_to_speech . . . 322
rapp::cloud::weather_report_current . . . 332
rapp::cloud::weather_report_forecast . . . 335
rapp::cloud::asio_socket_https . . . 40
asio_service_http
rapp::cloud::fetch_personal_data . . . 89
rapp::cloud::asio_socket . . . 38
rapp::cloud::asio_service_http . . . 33
rapp::cloud::asio_socket_https . . . 40
rapp::object::audio . . . 47
rapp::object::microphone_wav . . . 114

rapp::object::nao_quad_channel_wav . . . 116
rapp::object::nao_single_channel_wav . . . 118
rapp::object::ogg . . . 128
CloudMsg
RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect . . . 68
RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory . . . 70
RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores . . . 72
RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance . . . 74
RappCloud.CloudMsgs.EmailFetch.EmailFetch . . . 80
RappCloud.CloudMsgs.EmailSend.EmailSend . . . 82
RappCloud.CloudMsgs.FaceDetection.FaceDetection . . . 88
RappCloud.CloudMsgs.Geolocation.Geolocation . . . 95
RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor . . . 103
RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight . . . 105
RappCloud.CloudMsgs.HumanDetection.HumanDetection . . . 111
RappCloud.CloudMsgs.NewsExplore.NewsExplore . . . 123
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe . . . 127
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass . . . 137
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses . . . 139
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses . . . 140
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D . . . 143
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap . . . 145
RappCloud.CloudMsgs.QrDetection.QrDetection . . . 159
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile . . . 304
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle . . . 311
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx . . . 313
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech . . . 324
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent . . . 338
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast . . . 340
CloudRequest
RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request . . . 208
RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request . . . 183
RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request . . . 212
RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request . . . 237
RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request . . . 227
RappCloud.CloudMsgs.EmailSend.EmailSend.Request . . . 204
RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request . . . 219
RappCloud.CloudMsgs.Geolocation.Geolocation.Request . . . 225
RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request . . . 215
RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request . . . 230
RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request . . . 190
RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request . . . 201
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request . . . 210
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request . . . 217
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request . . . 221
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request . . . 223
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request . . . 192
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request . . . 234
RappCloud.CloudMsgs.QrDetection.QrDetection.Request . . . 232
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request . . . 239
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request . . . 185
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request . . . 187
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request . . . 195
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request . . . 197
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request . . . 199
CloudResponse
RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response . . . 284
RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response . . . 262

RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response . . . 282
RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response . . . 250
RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response . . . 260
RappCloud.CloudMsgs.EmailSend.EmailSend.Response . . . 258
RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response . . . 275
RappCloud.CloudMsgs.Geolocation.Geolocation.Response . . . 288
RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response . . . 264
RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response . . . 248
RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response . . . 280
RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response . . . 266
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response . . . 269
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response . . . 254
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response . . . 276
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response . . . 246
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response . . . 278
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response . . . 271
RappCloud.CloudMsgs.QrDetection.QrDetection.Response . . . 241
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response . . . 287
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response . . . 256
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response . . . 273
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response . . . 252
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response . . . 243
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response . . . 267
rapp::object::face . . . 83
rapp::object::human . . . 106
object
RappCloud.CloudMsgs.Cloud.CloudMsg . . . 53
RappCloud.CloudMsgs.Cloud.CloudRequest . . . 54
RappCloud.CloudMsgs.Cloud.CloudResponse . . . 57
RappCloud.Objects.File.File . . . 92
RappCloud.Objects.Payload.Payload . . . 147
RappCloud.Service.RappPlatformService.RappPlatformService . . . 179
RappCloud.ServiceController.AsyncHandler.AsyncHandler . . . 46
RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase . . . 296
RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync . . . 294
RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync . . . 300
RappCloud.Utils.Net.Net . . . 119
rapp::object::picture . . . 150
plan_path2d . . . 152
rapp::object::qr_code . . . 155
qrCode . . . 159
RappCloud.Utils.RandStrGen.RandStrGen . . . 161
RappCloud.RappPlatformApi.RappPlatformAPI . . . 164
rapp::cloud::service_controller . . . 292
RappCloud.ServiceController.Adapters.SSLDef . . . 321
AuthBase
RappCloud.ServiceController.RAPPAuth.RAPPAuth . . . 162
HTTPAdapter
RappCloud.ServiceController.Adapters.SSLAdapter . . . 319
RappCloud.ServiceController.Adapters.SSL23Adapter . . . 315
RappCloud.ServiceController.Adapters.SSL2Adapter . . . 316
RappCloud.ServiceController.Adapters.SSL3Adapter . . . 318
RappCloud.ServiceController.Adapters.TLS11Adapter . . . 326
RappCloud.ServiceController.Adapters.TLS12Adapter . . . 328
RappCloud.ServiceController.Adapters.TLS1Adapter . . . 329
RappCloud.ServiceController.Adapters.TLSAdapter . . . 331

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

rapp::cloud::asio_handler
: Base class for asio handling, including helper methods and most protected members 27

rapp::cloud::asio_service_http
: Base class for asynchronous http websockets used for connecting to cloud services 33

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 38

rapp::cloud::asio_socket_https
: Wrapper for SSL/TLS secure HTTP communication 40

RappCloud.ServiceController.AsyncHandler.AsyncHandler 46

rapp::object::audio
: Class which wraps around raw bytes of an audiofile 47

rapp::cloud::available_services
: Requests available services from platform 50

RappCloud.CloudMsgs.Cloud.CloudMsg 53

RappCloud.CloudMsgs.Cloud.CloudRequest 54

RappCloud.CloudMsgs.Cloud.CloudResponse 57

rapp::cloud::cognitive_get_history 58

rapp::cloud::cognitive_get_scores 61

rapp::cloud::cognitive_record_performance 63

rapp::cloud::cognitive_test_selector
: Chose a congitive game to play 65

RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect 68

RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory 70

RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores 72

RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance 74

rapp::cloud::email_fetch
: Fetch email(s) 75

rapp::cloud::email_send
: Send an email 78

RappCloud.CloudMsgs.EmailFetch.EmailFetch 80

RappCloud.CloudMsgs.EmailSend.EmailSend 82

rapp::object::face
: Describes a face coordinate (cartesian) 83

rapp::cloud::face_detection
: Asynchronous Service which will request the cloud to detect faces 85

RappCloud.CloudMsgs.FaceDetection.FaceDetection 88

rapp::cloud::fetch_personal_data
Get all personal data for a specific user . . . 89
RappCloud.Objects.File.File . . . 92
RappCloud.CloudMsgs.Geolocation.Geolocation . . . 95
rapp::cloud::geolocation
Geolocation service . . . 96
rapp::cloud::hazard_detection_door_check
Detect open doors . . . 98
rapp::cloud::hazard_detection_light_check
Detect light levels . . . 101
RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor . . . 103
RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight . . . 105
rapp::object::human
Describes human coordinates . . . 106
rapp::cloud::human_detection
Detect humans in an image . . . 108
RappCloud.CloudMsgs.HumanDetection.HumanDetection . . . 111
rapp::cloud::login_user . . . 112
rapp::object::microphone_wav
WAV Single channel 16Khz > Headset audio source . . . 114
rapp::object::nao_quad_channel_wav
WAV Class specialisation for quad channel . . . 116
rapp::object::nao_single_channel_wav
WAV Class specialisation for a single channel . . . 118
RappCloud.Utils.Net.Net . . . 119
rapp::cloud::news_explore
Get news . . . 120
RappCloud.CloudMsgs.NewsExplore.NewsExplore . . . 123
rapp::cloud::object_recognition
Recognize object from an image . . . 124
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe . . . 127
rapp::object::ogg
OGG Class specialisation . . . 128
rapp::cloud::ontology_is_subsuperclass_of
Query if sub class is a super class of param . . . 130
rapp::cloud::ontology_subclasses_of
Get ontology subclass of a query . . . 132
rapp::cloud::ontology_superclasses_of
Get ontology super-classes of query . . . 134
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass . . . 137
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses . . . 139
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses . . . 140
rapp::cloud::path_upload_map . . . 142
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D . . . 143
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap . . . 145
RappCloud.Objects.Payload.Payload . . . 147
rapp::object::picture
Class which wraps around raw bytes of a picture . . . 150
plan_path2d
Plan a 2D path . . . 152
rapp::cloud::plan_path_2d . . . 153
rapp::object::qr_code . . . 155
rapp::cloud::qr_detection
Asynchronous Service which will request the cloud to detect QR codes . . . 156
qrCode
Class which should encapsulate a QR code . . . 159
RappCloud.CloudMsgs.QrDetection.QrDetection . . . 159
RappCloud.Utils.RandStrGen.RandStrGen . . . 161

RappCloud.ServiceController.RAPPAuth.RAPPAuth . . . 162
RappCloud.RappPlatformApi.RappPlatformAPI . . . 164
RappCloud.Service.RappPlatformService.RappPlatformService . . . 179
RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request . . . 183
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request . . . 185
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request . . . 187
RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request . . . 190
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request . . . 192
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request . . . 195
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request . . . 197
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request . . . 199
RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request . . . 201
RappCloud.CloudMsgs.EmailSend.EmailSend.Request . . . 204
RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request . . . 208
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request . . . 210
RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request . . . 212
RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request . . . 215
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request . . . 217
RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request . . . 219
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request . . . 221
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request . . . 223
RappCloud.CloudMsgs.Geolocation.Geolocation.Request . . . 225
RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request . . . 227
RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request . . . 230
RappCloud.CloudMsgs.QrDetection.QrDetection.Request . . . 232
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request . . . 234
RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request . . . 237
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request . . . 239
RappCloud.CloudMsgs.QrDetection.QrDetection.Response . . . 241
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response . . . 243
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response . . . 246
RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response . . . 248
RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response . . . 250
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response . . . 252
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response . . . 254
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response . . . 256
RappCloud.CloudMsgs.EmailSend.EmailSend.Response . . . 258
RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response . . . 260
RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response . . . 262
RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response . . . 264
RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response . . . 266
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response . . . 267
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response . . . 269
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response . . . 271
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response . . . 273
RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response . . . 275
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response . . . 276
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response . . . 278
RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response . . . 280
RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response . . . 282
RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response . . . 284
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response . . . 287
RappCloud.CloudMsgs.Geolocation.Geolocation.Response . . . 288
rapp::cloud::service_controller
Main class that controllers RAPP Services . . . 292
RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync . . . 294
RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase . . . 296
RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync . . . 300

rapp::cloud::set_denoise_profile
Setting the denoising audio profile for speech recognition . . . 302
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile . . . 304
rapp::cloud::speech_detection_google
Delegate speech-to-text to Google via RAPP . . . 305
rapp::cloud::speech_detection_sphinx4
Speech-to-text recognition using CMU sphinx4 . . . 308
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle . . . 311
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx . . . 313
RappCloud.ServiceController.Adapters.SSL23Adapter . . . 315
RappCloud.ServiceController.Adapters.SSL2Adapter . . . 316
RappCloud.ServiceController.Adapters.SSL3Adapter . . . 318
RappCloud.ServiceController.Adapters.SSLAdapter . . . 319
RappCloud.ServiceController.Adapters.SSLDef . . . 321
rapp::cloud::text_to_speech
Request speech audio from text . . . 322
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech . . . 324
RappCloud.ServiceController.Adapters.TLS11Adapter . . . 326
RappCloud.ServiceController.Adapters.TLS12Adapter . . . 328
RappCloud.ServiceController.Adapters.TLS1Adapter . . . 329
RappCloud.ServiceController.Adapters.TLSAdapter . . . 331
rapp::cloud::weather_report_current
Get current weather report . . . 332
rapp::cloud::weather_report_forecast
Get weather forecast . . . 335
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent . . . 338
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast . . . 340

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

/home/travis/rapp_temp/rapp-api/cpp/examples/asio_tls.cpp . . . 343
/home/travis/rapp_temp/rapp-api/cpp/examples/face_detect.cpp . . . 343
/home/travis/rapp_temp/rapp-api/cpp/examples/fetch_data.cpp . . . 344
/home/travis/rapp_temp/rapp-api/cpp/examples/ontology_example.cpp . . . 344
/home/travis/rapp_temp/rapp-api/cpp/examples/picture_example.cpp . . . 345
/home/travis/rapp_temp/rapp-api/cpp/examples/qr_detect.cpp . . . 345
/home/travis/rapp_temp/rapp-api/cpp/examples/set_denoise_example.cpp . . . 346
/home/travis/rapp_temp/rapp-api/cpp/examples/speech_to_text.cpp . . . 346
/home/travis/rapp_temp/rapp-api/cpp/examples/text_to_speech.cpp . . . 347
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_basic.hpp . . . 402
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_core.hpp . . . 403
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_extra.hpp . . . 404
/home/travis/rapp_temp/rapp-api/cpp/includes/objects.hpp . . . 405
/home/travis/rapp_temp/rapp-api/cpp/includes/rapp.hpp . . . 414
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.cpp . . . 348
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.hpp . . . 348
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/includes.ihh . . . 349
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.cpp . . . 379
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.hpp . . . 380
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/includes.ihh . . . 350
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/asio_socket.hpp . . . 380
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/includes.ihh . . . 350
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.cpp . . . 381
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.hpp . . . 382
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/includes.ihh . . . 351
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/available_services.hpp . . . 383
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/includes.ihh . . . 352
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp . . . 384
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/includes.ihh . . . 353
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp . . . 385
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/includes.ihh . . . 354
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/fetch_personal_data.hpp . . . 386
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/includes.ihh . . . 356
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/geolocation.hpp . . . 386
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/includes.ihh . . . 356
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/includes.ihh . . . 358
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/path_planning.hpp . . . 387
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/includes.ihh . . . 358

/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/news.hpp . . . 388
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/includes.ihh . . . 359
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp . . . 389
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/includes.ihh . . . 360
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/service_controller.cpp . . . 390
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/service_controller.hpp . . . 391
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/includes.ihh . . . 361
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/set_denoise_profile.hpp 391
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/includes.ihh . . . 363
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/speech_detection-_google.hpp . . . 392
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/includes.ihh . . . 363
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/speech_detection-_sphinx4.hpp . . . 394
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/includes.ihh . . . 364
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/text_to_speech.hpp . . . 395
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/includes.ihh . . . 366
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/user.hpp . . . 396
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/face_detection.hpp . . . 396
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/includes.ihh . . . 366
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp . . . 397
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/includes.ihh . . . 367
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/human_detection.hpp . . . 398
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/includes.ihh . . . 368
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/includes.ihh . . . 370
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/object_recognition.hpp . . . 399
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/includes.ihh . . . 371
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/qr_detection.hpp . . . 400
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/includes.ihh . . . 372
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp . . . 401
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/globals.hpp . . . 409
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp . . . 406
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/includes.ihh . . . 373
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/face.hpp . . . 407
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/includes.ihh . . . 375
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/human.hpp . . . 410
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/includes.ihh . . . 376
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/includes.ihh . . . 377
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/picture.hpp . . . 411
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/includes.ihh . . . 377
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr_code.hpp . . . 412
/home/travis/rapp_temp/rapp-api/python/RappCloud/__init__.py . . . 414
/home/travis/rapp_temp/rapp-api/python/RappCloud/RappPlatformApi.py . . . 423
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/__init__.py . . . 414
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py . . . 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py . . . 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py . . . 416
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py . . . 416
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py . . . 416
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailFetch.py . . . 416
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py . . . 417
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py . . . 417
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py . . . 417
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py . . . 418
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py . . . 418
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py . . . 418
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py . . . 418
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py . . . 419

/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py 419
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py 419
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py 420
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py 420
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py 420
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py 420
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py 421
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionGoogle.py 421
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py 421
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py 422
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportCurrent.py 422
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportForecast.py 422
/home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/__init__.py 414
/home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/File.py 422
/home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/Payload.py 423
/home/travis/rapp_temp/rapp-api/python/RappCloud/Service/__init__.py 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/Service/RappPlatformService.py 424
/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/__init__.py 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py 424
/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/AsyncHandler.py 425
/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/RAPPAuth.py 425
/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerAsync.py 426
/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerBase.py 426
/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerSync.py 426
/home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/__init__.py 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/DatatypeAssert.py 427
/home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/Net.py 427
/home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/RandStrGen.py 428

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 congitive 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

∗args	- Data types for the function to assert.
∗∗kwargs	- 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

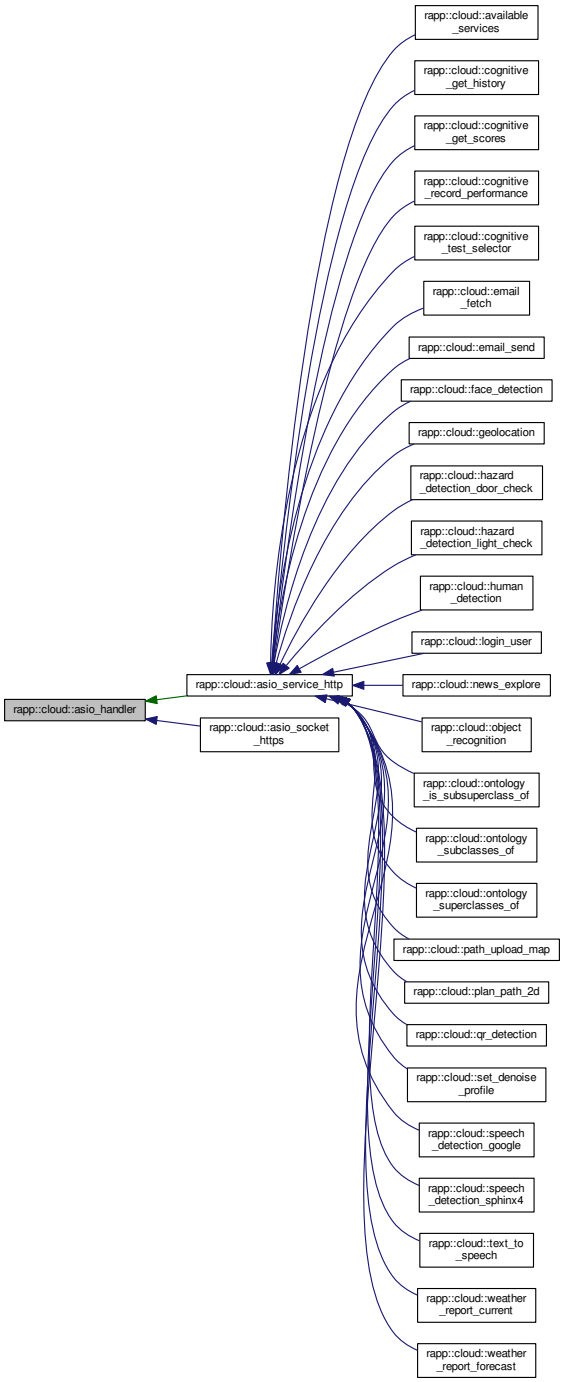
Class Documentation

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` *filed*
- 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

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

header	

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

val	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

val	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

error	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

str	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` filed

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:

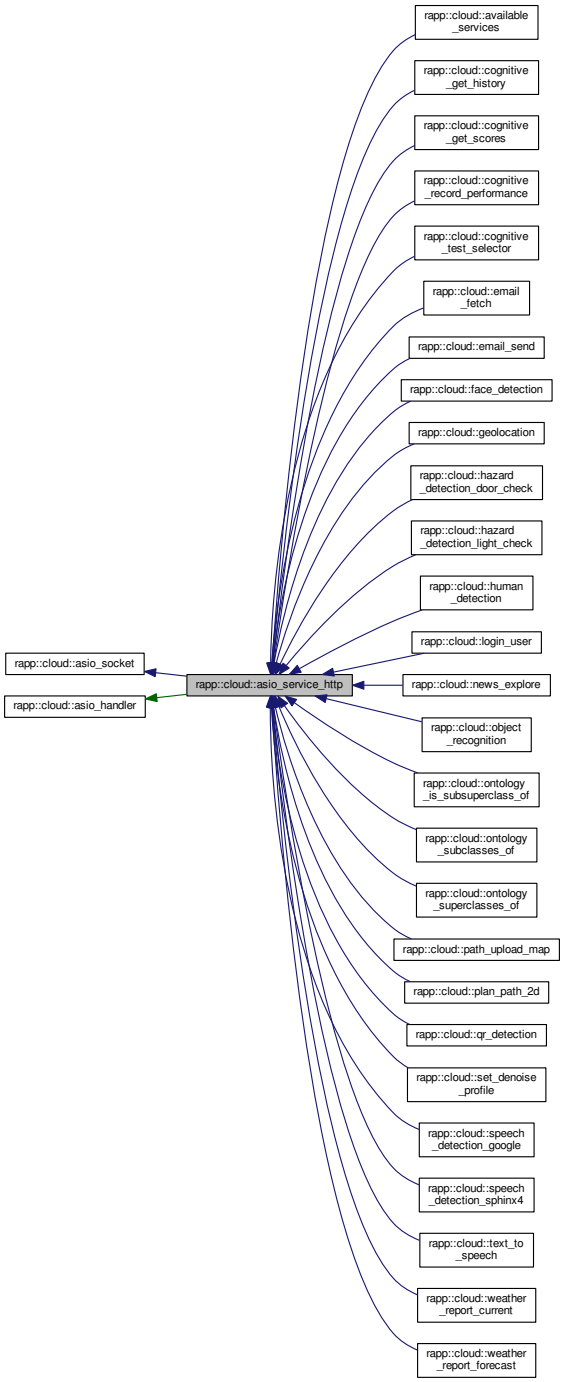
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.hpp
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.cpp

6.2 rapp::cloud::asio_service_http Class Reference

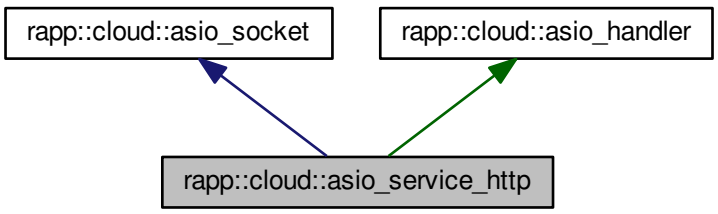
base class for asynchronous http websockets used for connecting to cloud services

`#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 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

token	is the rapp.cloud 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

err	is a possible error
endpoint_iterator	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

err	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

err	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

err	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

err	is a possible error
endpoint_iterator	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

err	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

query	defines the actual URL/URI
resolver	is the URL/URI resolver reference
io_service	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:

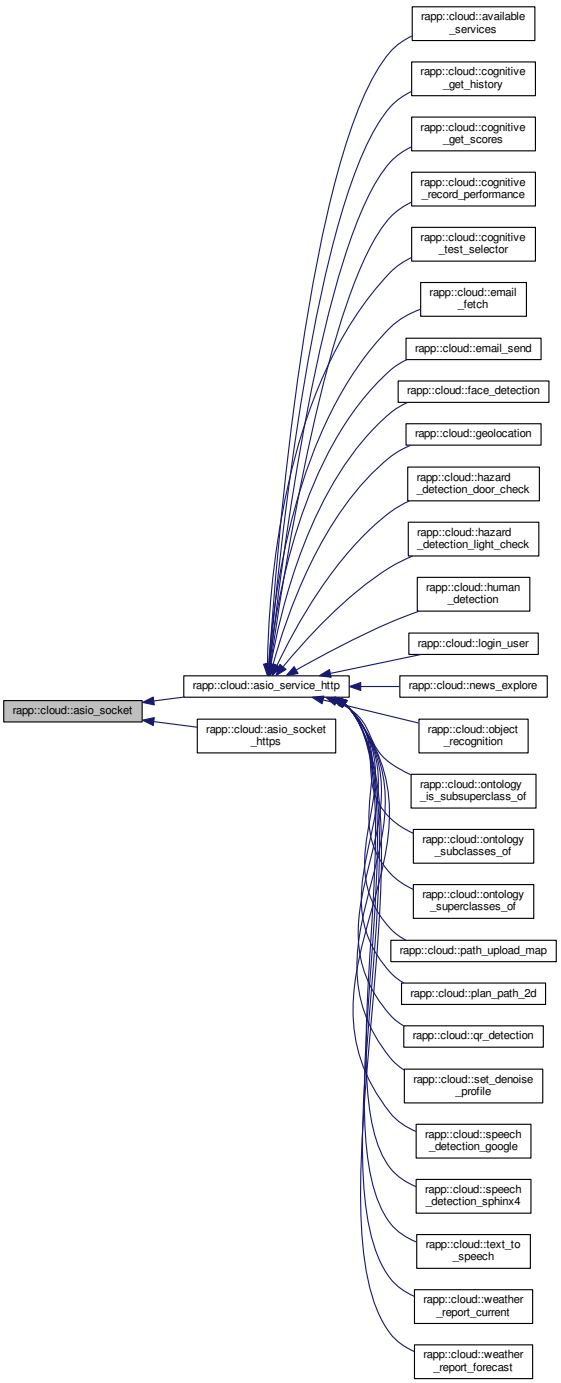
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.hpp
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.cpp

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

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

query	defines the actual URL/URI
resolver	is the URL/URI resolver reference
io_service	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:

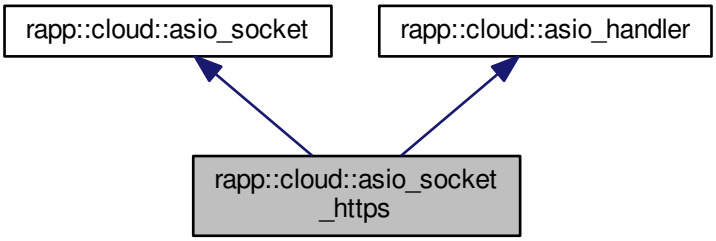
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/asio_socket.hpp

6.4 rapp::cloud::asio_socket_https Class Reference

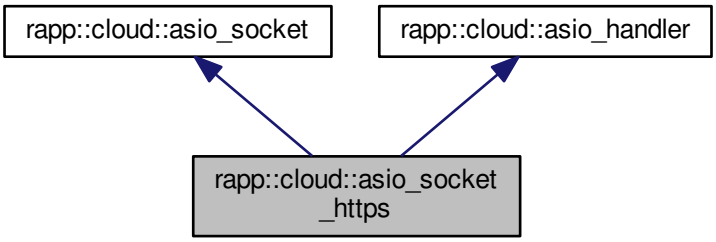
wrapper for SSL/TLS secure HTTP communication

`#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

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

token	authentication token
user	rapp.cloud 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

err	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

err	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

err	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

err	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

query	defines the URL/URI
resolver	resolves the URL/URI address
io_service	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

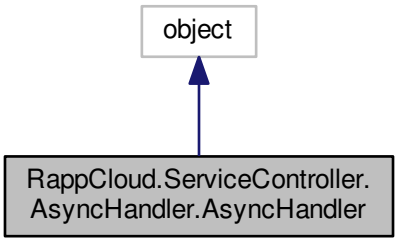
Definition at line 74 of file asio_socket_https.hpp.

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

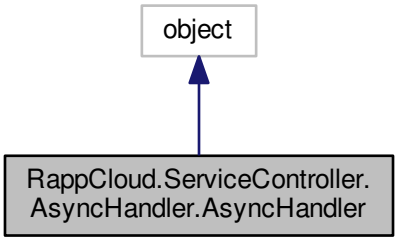
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.hpp
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.cpp

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:

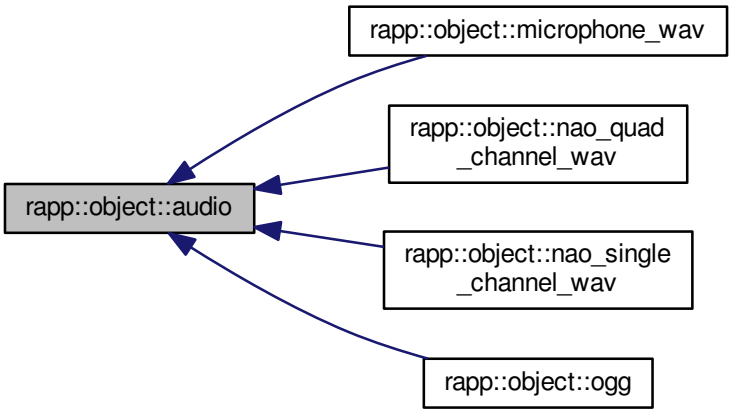
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/AsyncHandler.py

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

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

bytestream	will be **consumed** 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

bytearray	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:

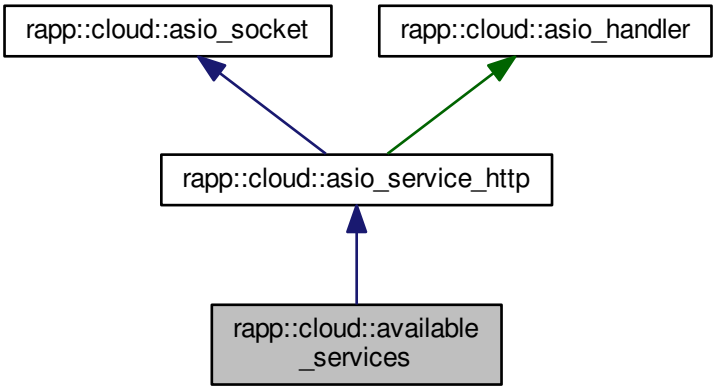
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp

6.7 rapp::cloud::available_services Class Reference

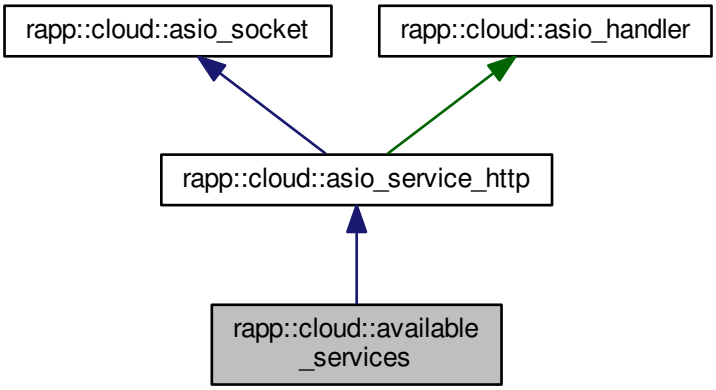
requests available services from platform

`#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

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

callback	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]

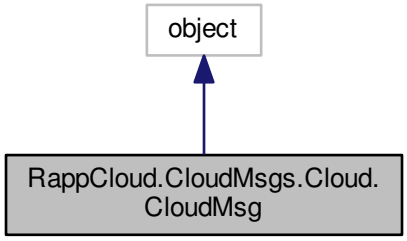
Definition at line 58 of file available_services.hpp.

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

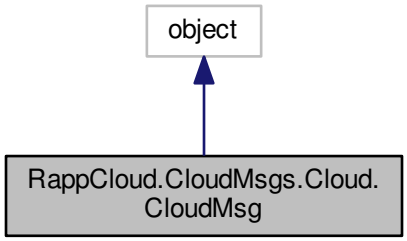
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/available_services.hpp

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]

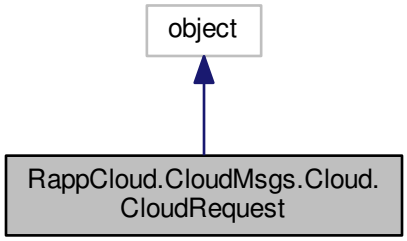
Definition at line 8 of file Cloud.py.

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

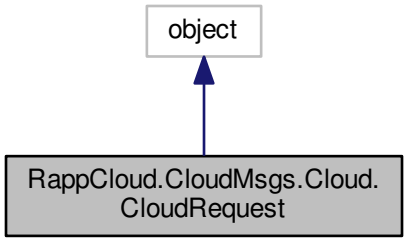
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py

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*)

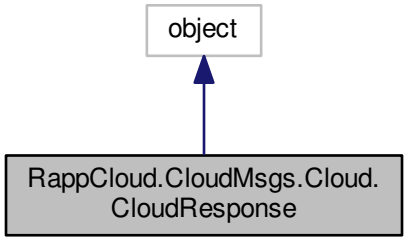
Definition at line 42 of file Cloud.py.

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

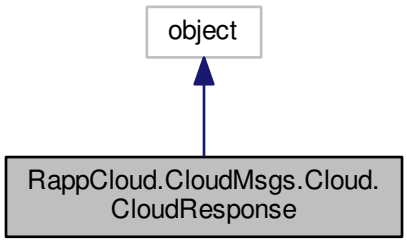
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py

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.

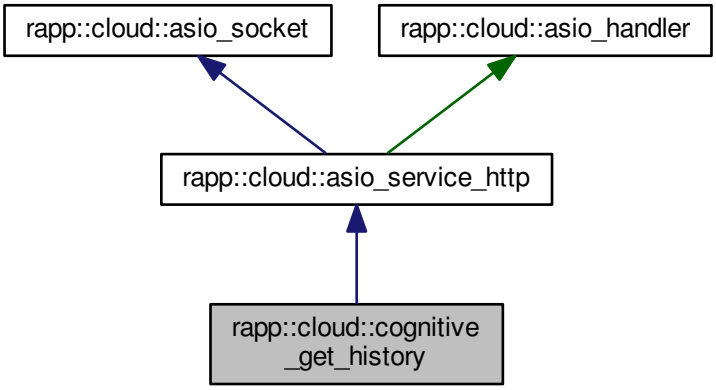
The documentation for this class was generated from the following file:

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

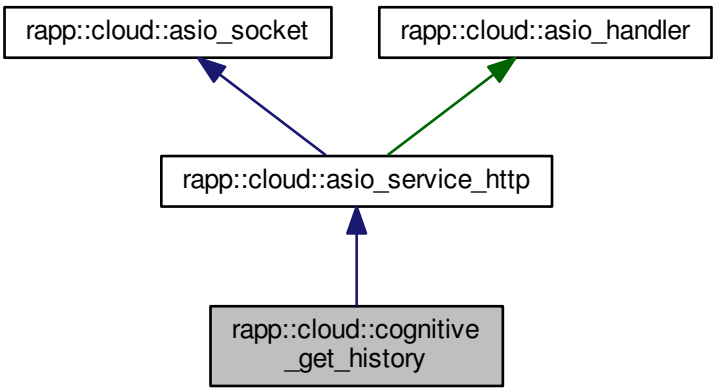
6.11 rapp::cloud::cognitive_get_history Class Reference

`#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

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

from_time	is a unix timestamp
to_time	is a unix timestamp
test_type	is the cognitive test
token	is the rapp authentication token
callback	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.

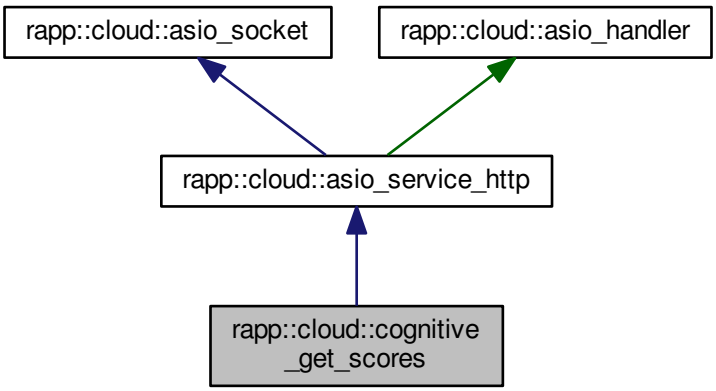
The documentation for this class was generated from the following file:

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

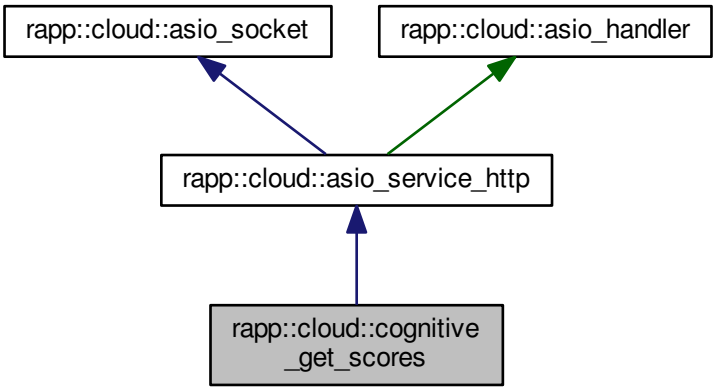
6.12 rapp::cloud::cognitive_get_scores Class Reference

`#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

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

up_to_time	defines scores queried up to that unix timestamp
test_type	the test type
token	the rapp authentication token
callback	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.

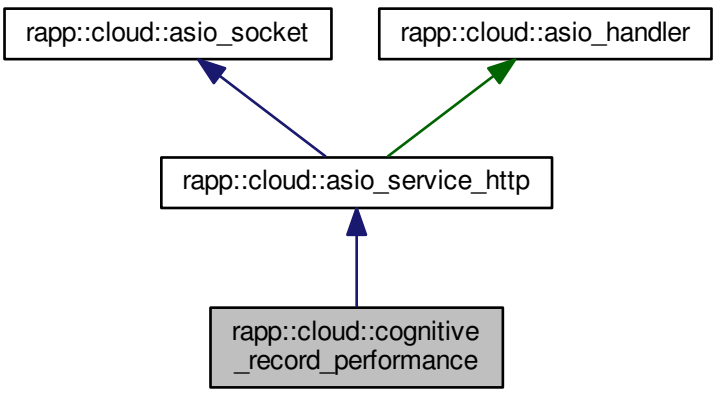
The documentation for this class was generated from the following file:

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

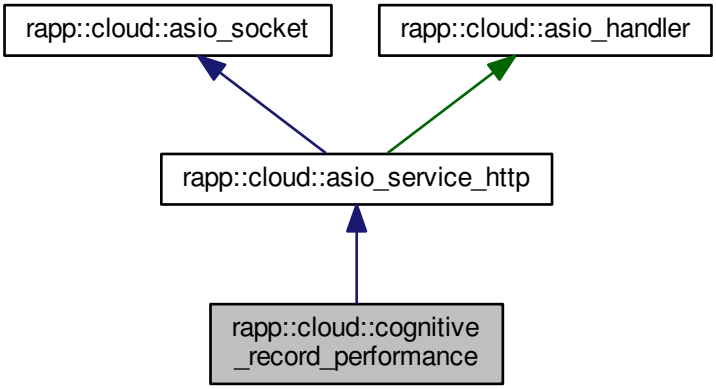
6.13 rapp::cloud::cognitive_record_performance Class Reference

`#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

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

test_instance	sets the actual test
score	is the recorded score
token	is the rapp authentication token
callback	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:

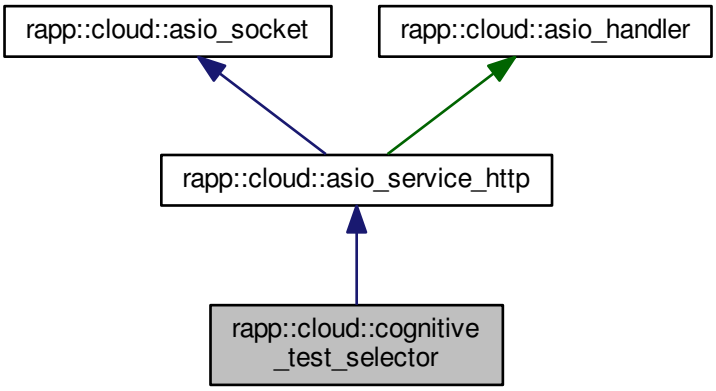
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp

6.14 rapp::cloud::cognitive_test_selector Class Reference

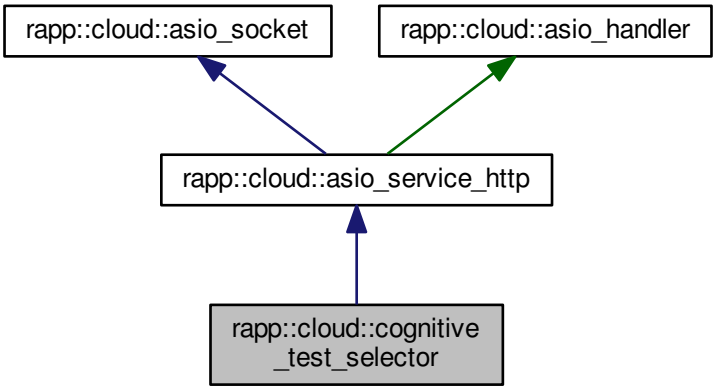
chose a congitive game to play

```
#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 congitive game to play

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas 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

user	set the user
test_type	set the test type
callback	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]

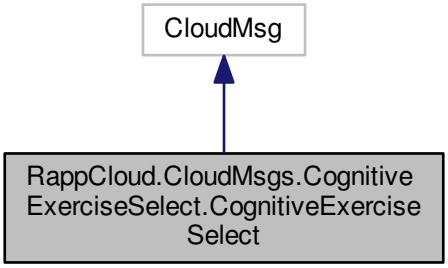
Definition at line 106 of file cognitive_exercises.hpp.

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

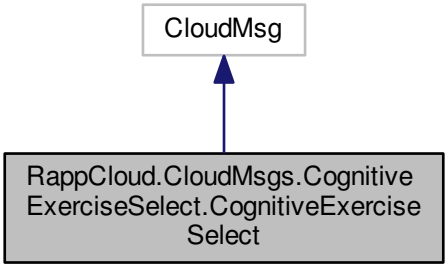
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp

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
```

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.test_type • Request.test_subtype • Request.test_diff • Request.test_index

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

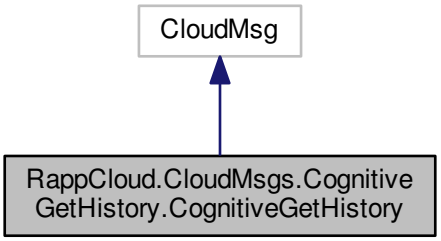
Definition at line 118 of file CognitiveExerciseSelect.py.

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

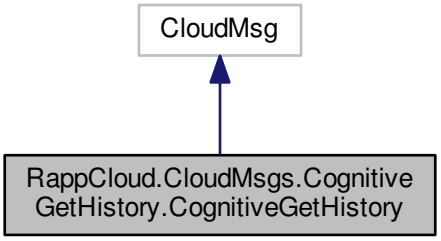
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.test_type • Request.time_from • Request.time_to

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

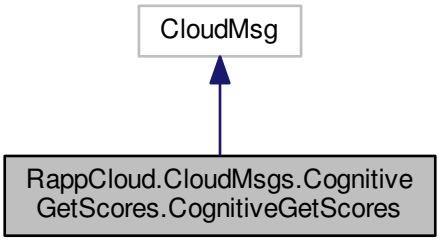
Definition at line 91 of file CognitiveGetHistory.py.

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

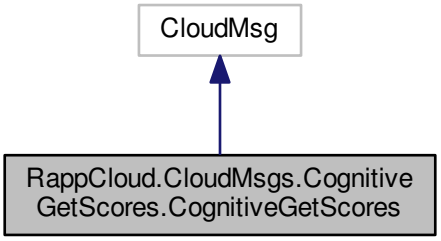
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.test_type • Request.time_to

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

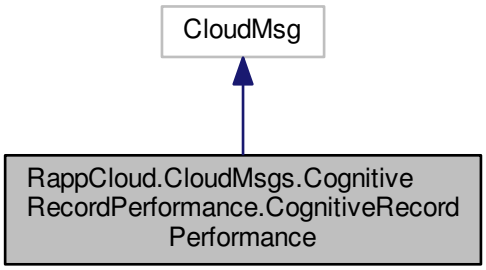
Definition at line 90 of file CognitiveGetScores.py.

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

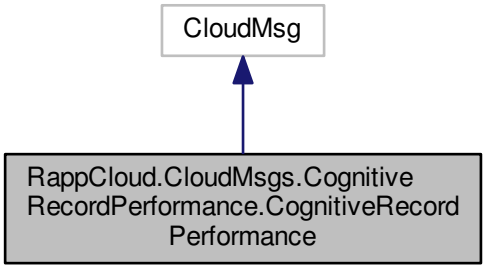
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.test_instance • Request.score

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:

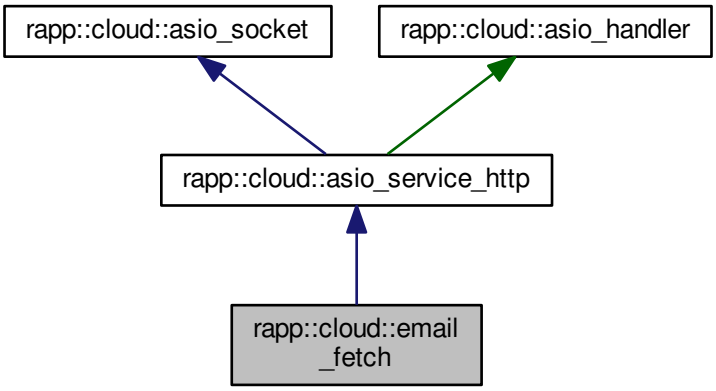
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py

6.19 rapp::cloud::email_fetch Class Reference

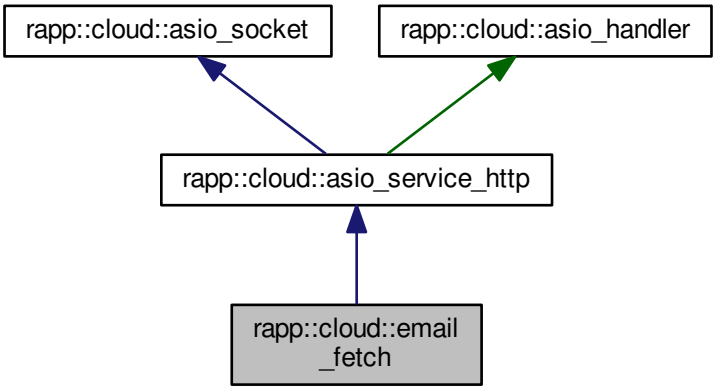
fetch email(s)

```
#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

email	user's email address
pwd	user's plain-text password
server	email imap address
port	email imap port
email_status	which mail is requested (ALL, UNSEEN)
from_date	fetch emails since date (unix timestamp)
to_date	fetch emails to date (unix timestamp)
num_emails	number of emails requested
token	rapp platform auth token
callback	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:

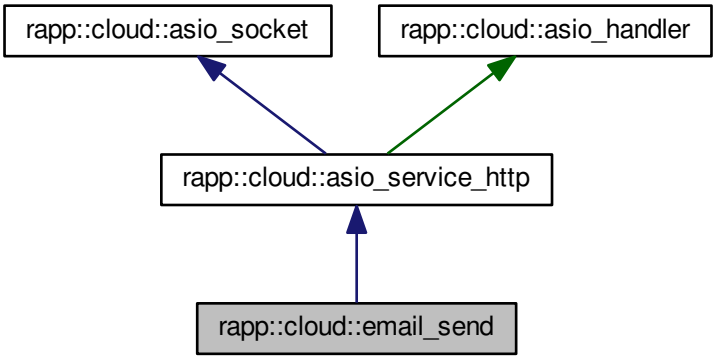
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp

6.20 rapp::cloud::email_send Class Reference

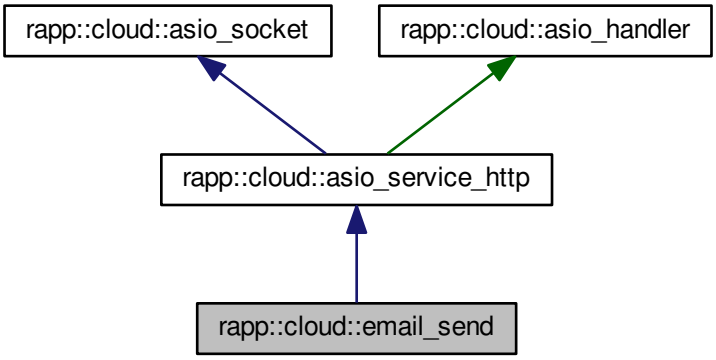
send an email

`#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

email	user's email address
pwd	user's plain-text password
server	email imap address
port	email imap port
recipients	vector of email addresses
body	email body
subject	email subject
data	data attached to the email
token	rapp platform auth token
callback	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]

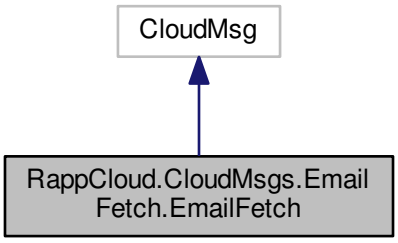
Definition at line 152 of file email.hpp.

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

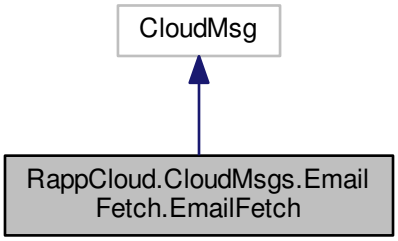
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.email • Request.password • Request.server • Request.port • Request.date_from • Request.date_to • Request.email_status • Request.num_emails

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

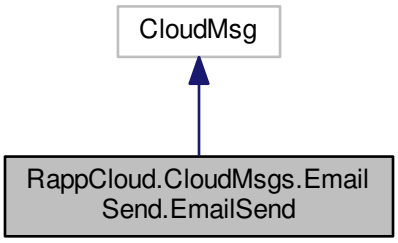
Definition at line 112 of file EmailFetch.py.

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

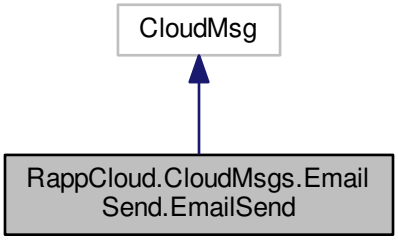
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailFetch.py

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.email • Request.password • Request.server • Request.port • Request.recipients • Request.body • Request.subject • Request.attach_file

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)

  Consruct using face coordinates (a rectangle)
- face ()=default

  Allow empty consructor.
- 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

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*)

Consruct using face coordinates (a rectangle)

Definition at line 17 of file face.hpp.

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

Allow empty consructor.

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:

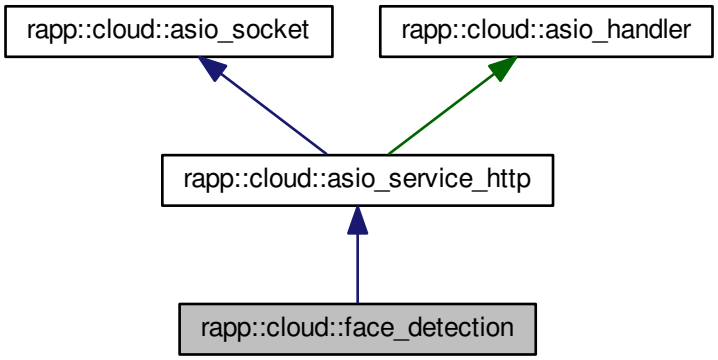
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/face.hpp

6.24 rapp::cloud::face_detection Class Reference

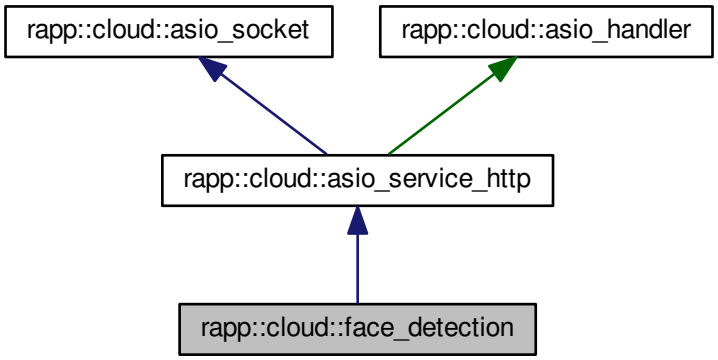
Asynchronous Service which will request the cloud to detect faces.

`#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

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

image	is the input image

See Also

rapp::object::picture

Parameters

fast	defines if this will be a fast call or not.
callback	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.

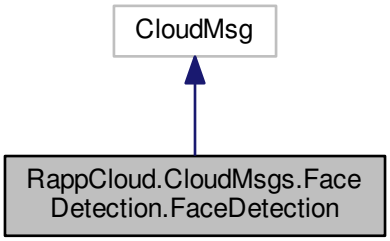
Definition at line 115 of file face_detection.hpp.

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

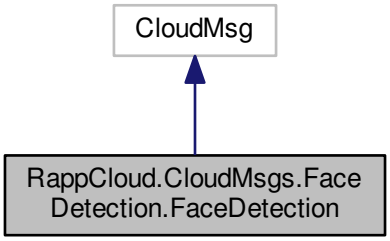
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/face_detection.hpp

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.fast • Request.imageFilepath

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:

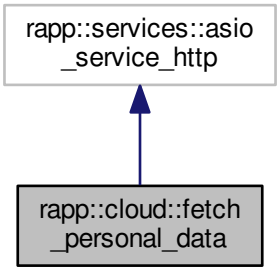
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py

6.26 rapp::cloud::fetch_personal_data Class Reference

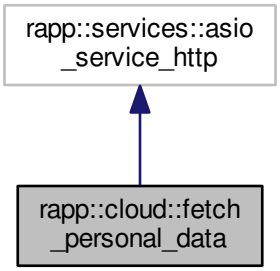
Get all personal data for a specific user.

```
#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

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

user	is the string username as stored in the database
callback	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.

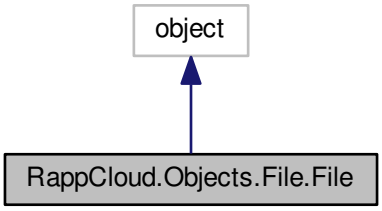
Definition at line 53 of file fetch_personal_data.hpp.

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

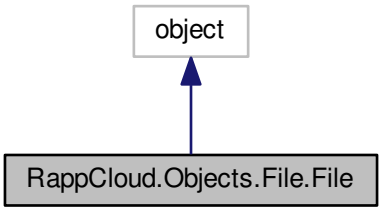
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/fetch_personal_data.hpp

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

path	str -The filepath
postField	str - The post field name.
boundary_size	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

path	(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

fieldname	(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]

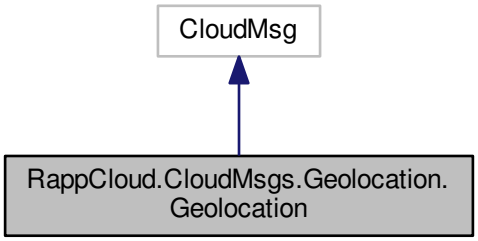
Definition at line 51 of file File.py.

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

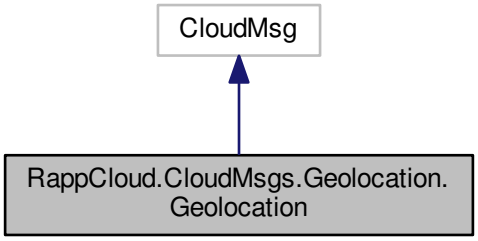
- /home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/File.py

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.ipaddr • Request.engine

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:

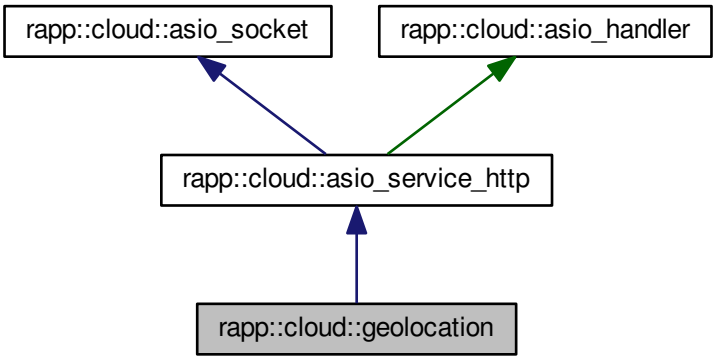
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py

6.29 rapp::cloud::geolocation Class Reference

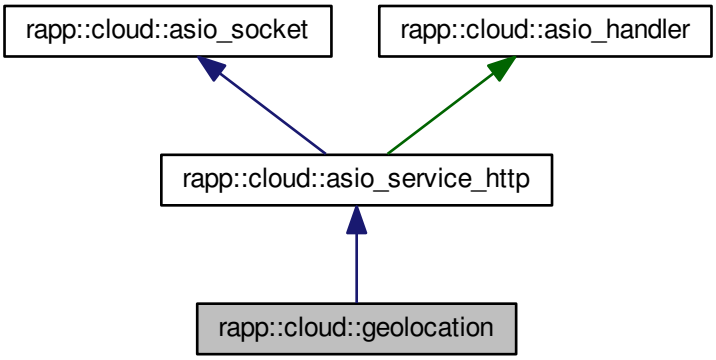
geolocation service

```
#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

ipaddr	the machine's ip
engine	the API (default ip-api)
token	the rapp auth token
callback	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:

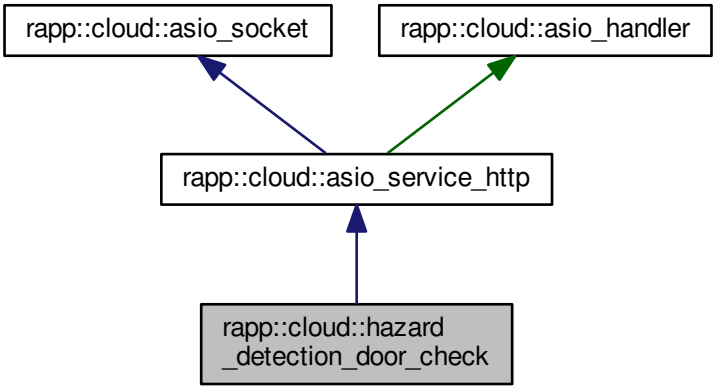
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/geolocation.hpp

6.30 rapp::cloud::hazard_detection_door_check Class Reference

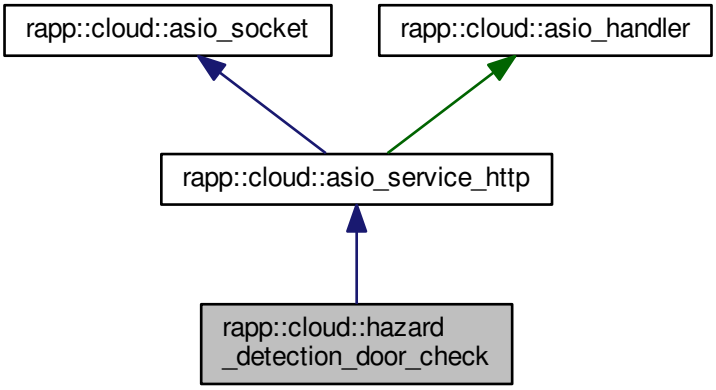
detect open doors

`#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

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

image	is a picture object pointer
callback	is the function that will receive a vector of detected qr(s)
image_format	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:

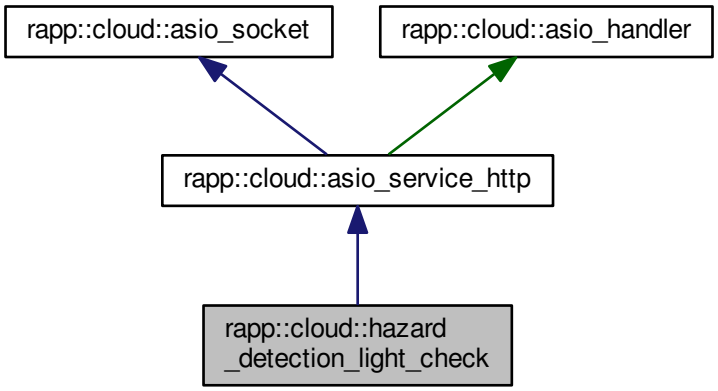
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp

6.31 rapp::cloud::hazard_detection_light_check Class Reference

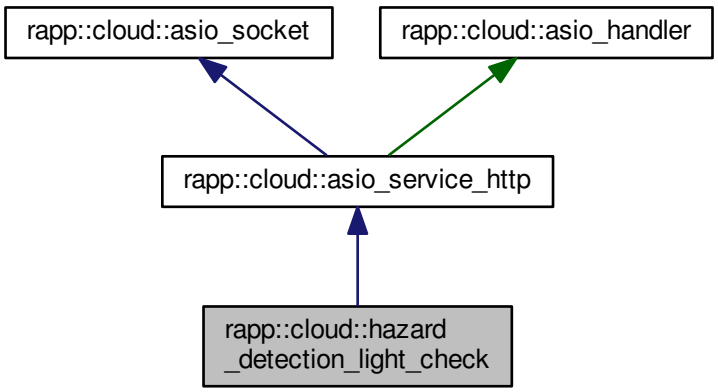
detect light levels

`#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

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

image	is a picture object pointer
callback	is the function that will receive a vector of detected qr(s)
image_format	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.

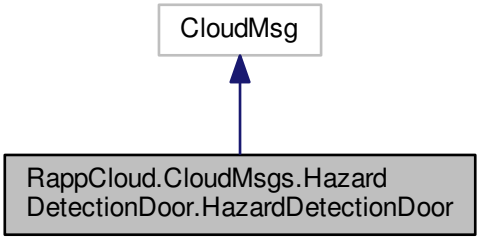
Definition at line 166 of file hazard_detection.hpp.

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

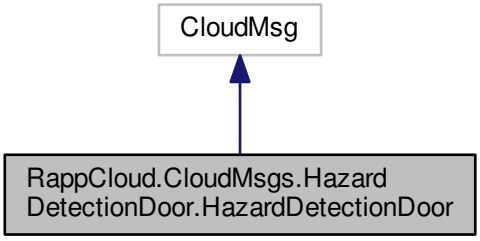
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.imageFilepath

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

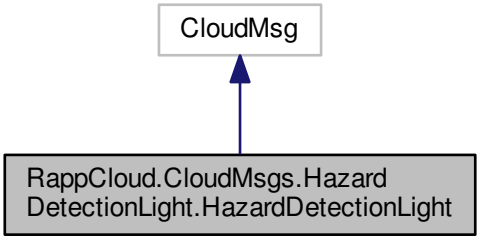
Definition at line 74 of file HazardDetectionDoor.py.

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

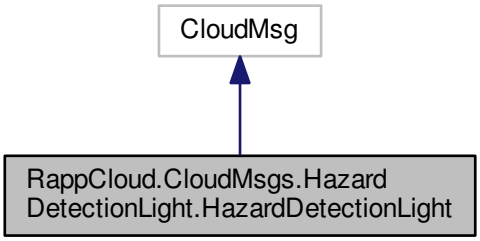
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.imageFilepath

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)

  Consruct using coordinates (a rectangle)
- human ()=default

  Allow empty consructor.
- 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

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*)

Consruct using coordinates (a rectangle)

Definition at line 17 of file human.hpp.

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

Allow empty consructor.

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:

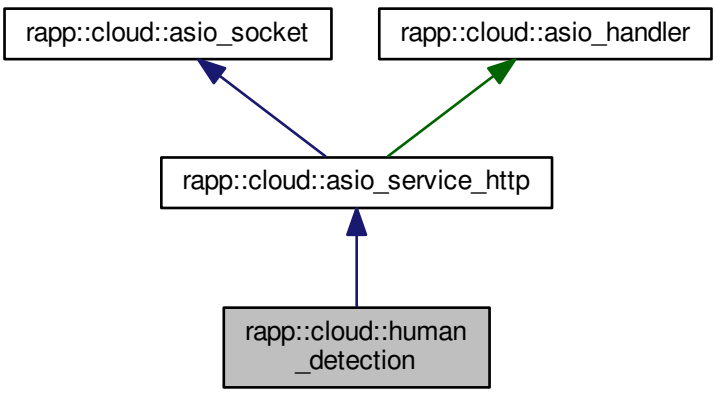
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/human.hpp

6.35 rapp::cloud::human_detection Class Reference

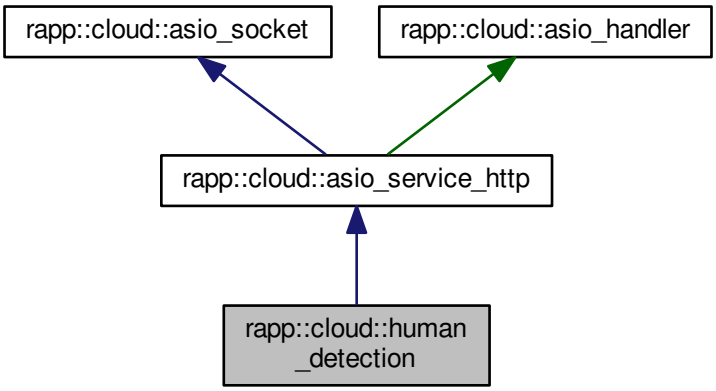
detect humans in an image

`#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

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

image	is a picture object pointer
callback	is the function that will receive a vector of detected qr(s)
image_format	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.

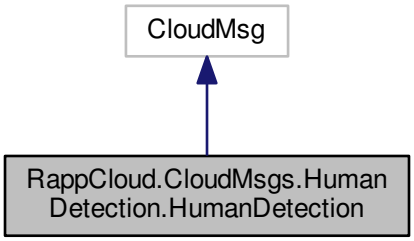
Definition at line 112 of file human_detection.hpp.

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

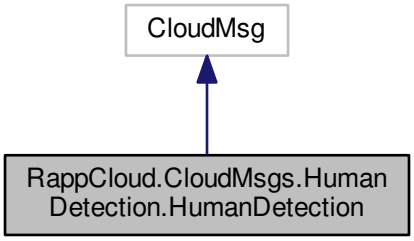
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/human_detection.hpp

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.imageFilepath

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.

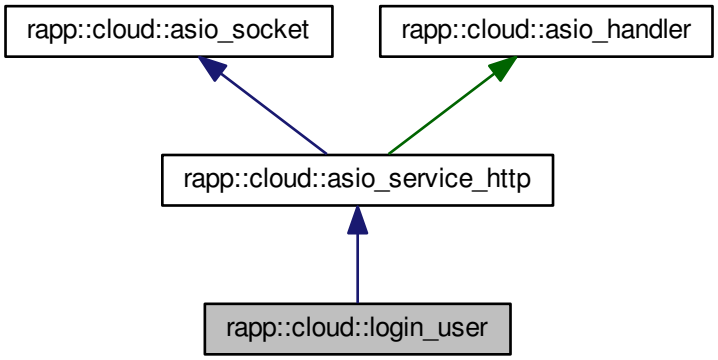
The documentation for this class was generated from the following file:

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

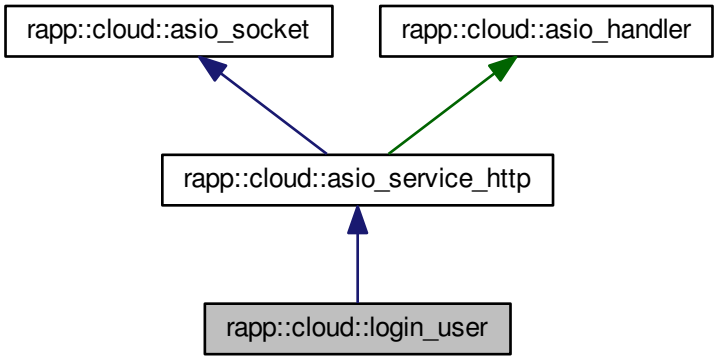
6.37 rapp::cloud::login_user Class Reference

```
#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

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

callback	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:

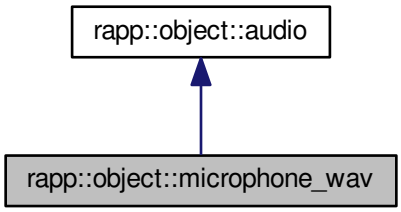
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/user.hpp

6.38 rapp::object::microphone_wav Class Reference

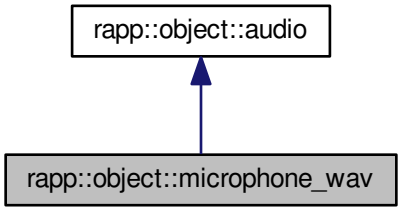
WAV Single channel 16Khz > Headset audio source.

`#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:

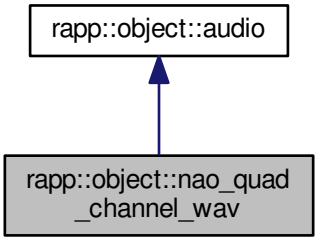
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp

6.39 rapp::object::nao_quad_channel_wav Class Reference

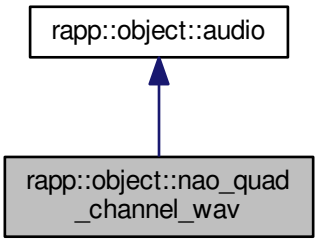
WAV Class specialisation for quad channel.

`#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:

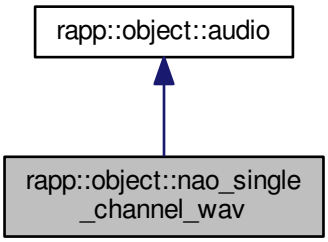
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp

6.40 rapp::object::nao_single_channel_wav Class Reference

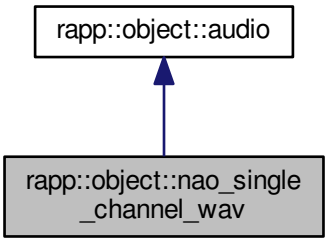
WAV Class specialisation for a single channel.

`#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.

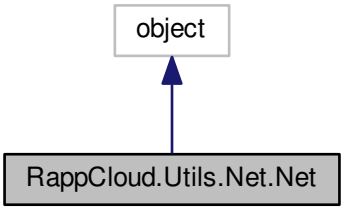
Definition at line 133 of file audio.hpp.

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

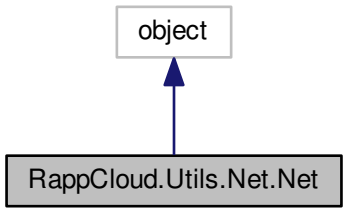
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp

6.41 RappCloud.Utils.Net.Net Class Reference

Inheritance diagram for RappCloud.Utils.Net.Net:



Collaboration diagram for RappCloud.Utils.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.Utils.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:

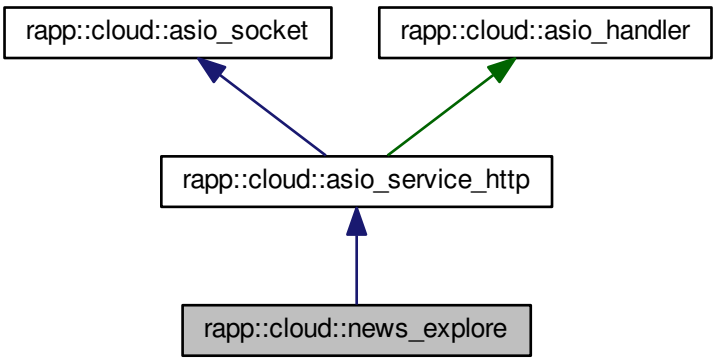
- /home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/Net.py

6.42 rapp::cloud::news_explore Class Reference

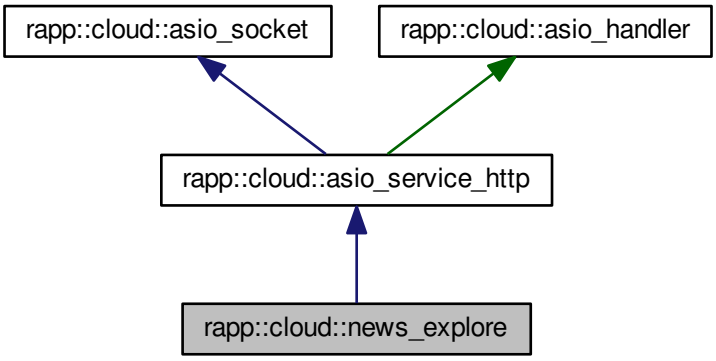
get news

```
#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

news_engine	search news engine
keywords	list desired keywords
exclude_titles	list of ecluded titles
region	language/region
topic	main news topic
num_news	number of news stories limit
token	rapp auth token
callback	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]

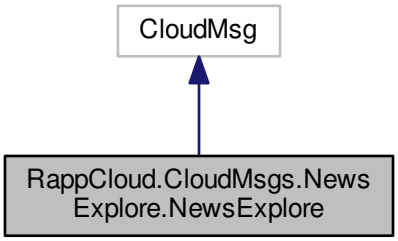
Definition at line 71 of file news.hpp.

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

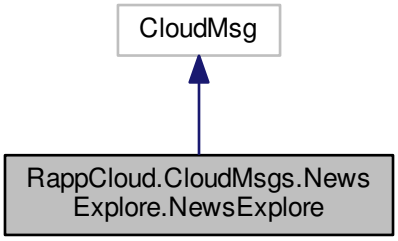
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/news.hpp

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.news_engine • Request.keywords • Request.exclude_titles • Request.region • Request.topic • Request.num_news

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:

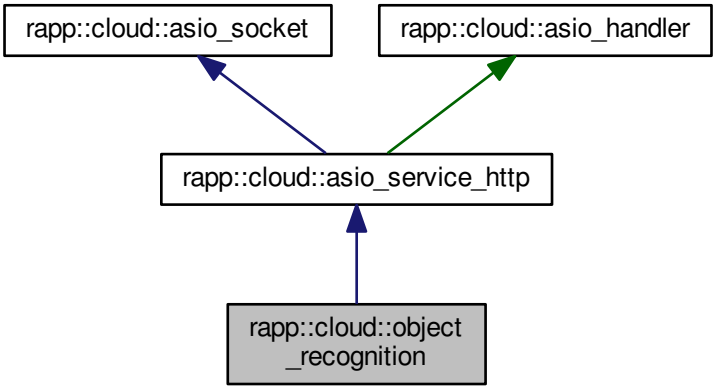
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py

6.44 rapp::cloud::object_recognition Class Reference

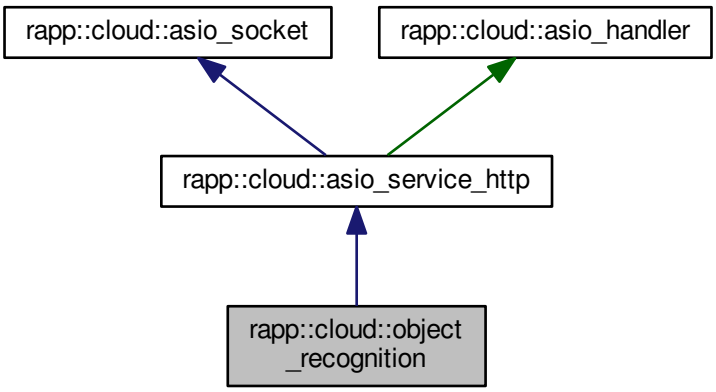
recognize object from an image

#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

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

image	is a picture object pointer
callback	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.

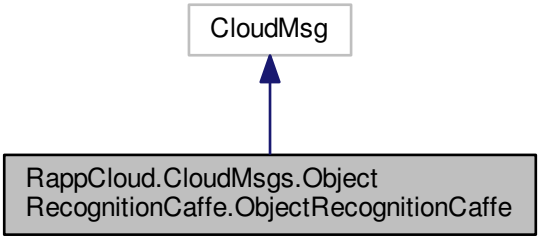
Definition at line 82 of file object_recognition.hpp.

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

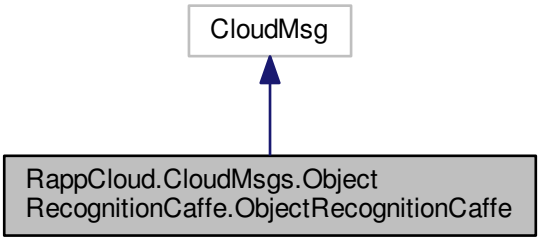
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/object_recognition.hpp

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.imageFilepath

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:

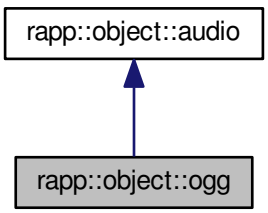
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py

6.46 rapp::object::ogg Class Reference

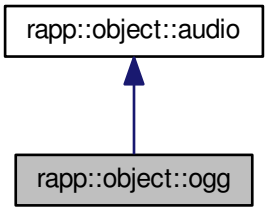
OGG Class specialisation.

```
#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:

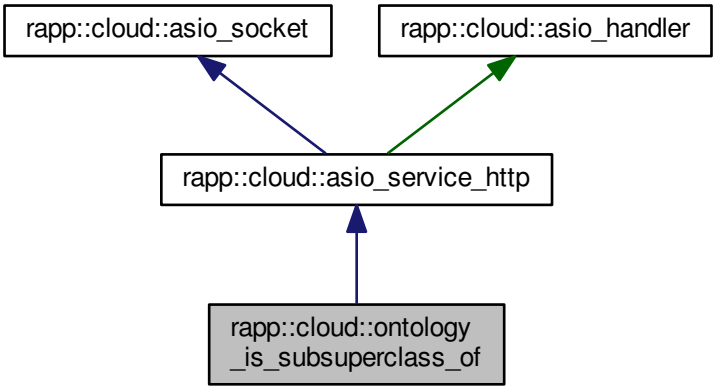
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp

6.47 rapp::cloud::ontology_is_subsuperclass_of Class Reference

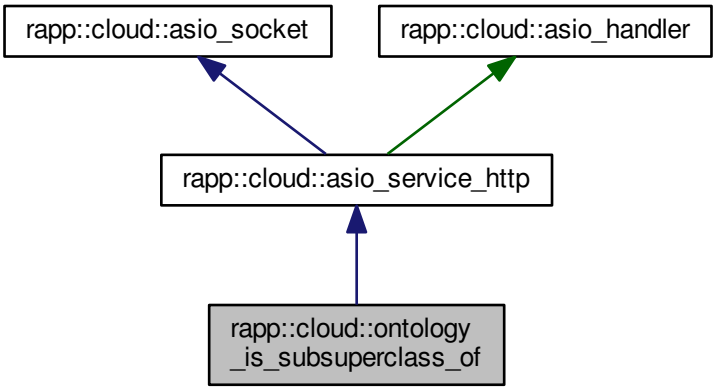
query if sub class is a super class of param

`#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

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

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

token	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:

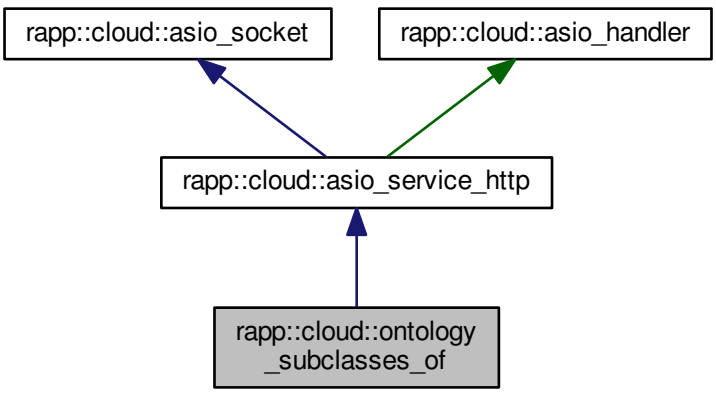
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp

6.48 rapp::cloud::ontology_subclasses_of Class Reference

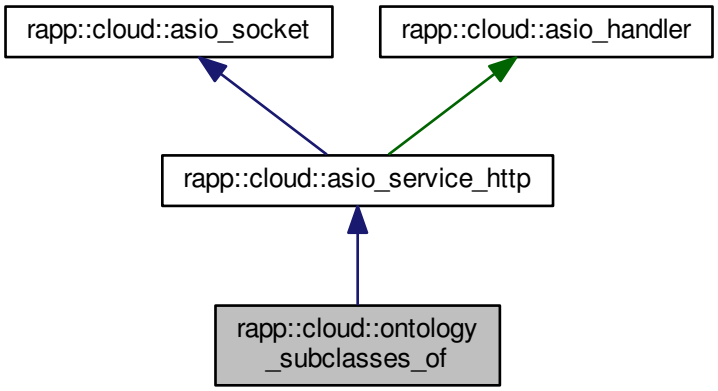
get ontology subclass of a query

`#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

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

query	is the entity for which we will try to acquire its Super-Ordinates
callback	is the functor that will receive the classes discovered
token	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:

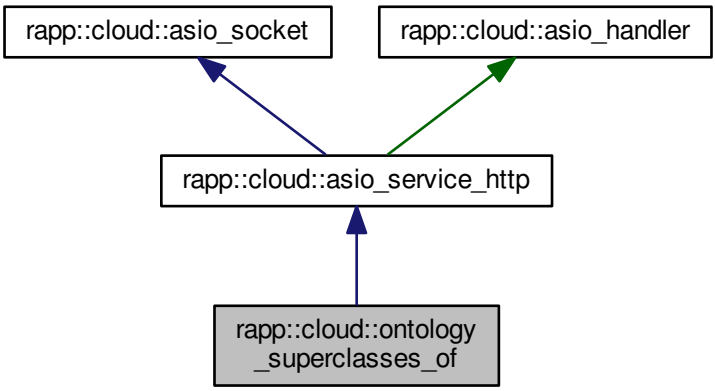
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp

6.49 rapp::cloud::ontology_superclasses_of Class Reference

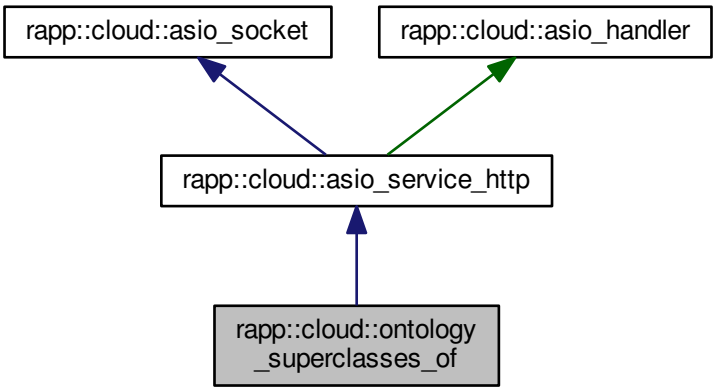
get ontology super-classes of query

`#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

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

ontology_class	is the entity for which we will try to acquire its Super-Ordinates
callback	is the functor that will receive the classes discovered
token	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.

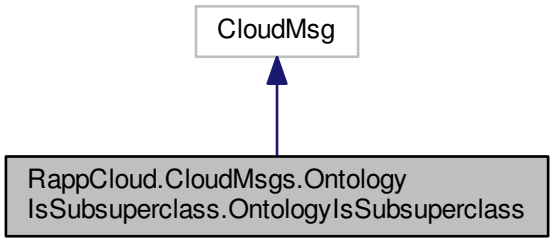
Definition at line 135 of file ontology.hpp.

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

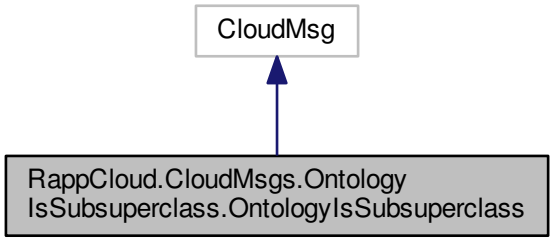
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.parent_class • Request.child_class • Request.recursive

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

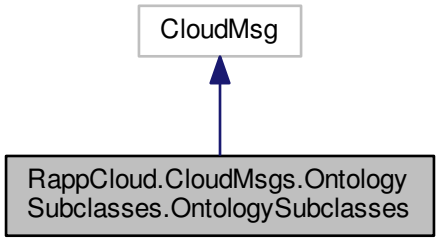
Definition at line 87 of file OntologyIsSubsuperclass.py.

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

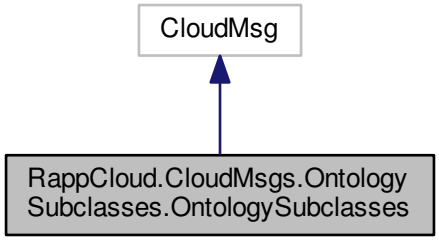
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.query

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

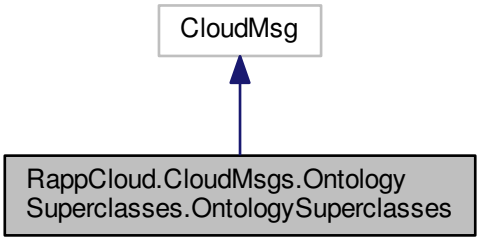
Definition at line 78 of file OntologySubclasses.py.

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

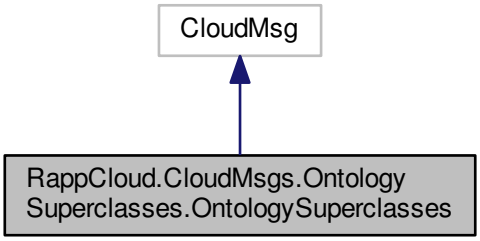
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.query

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.

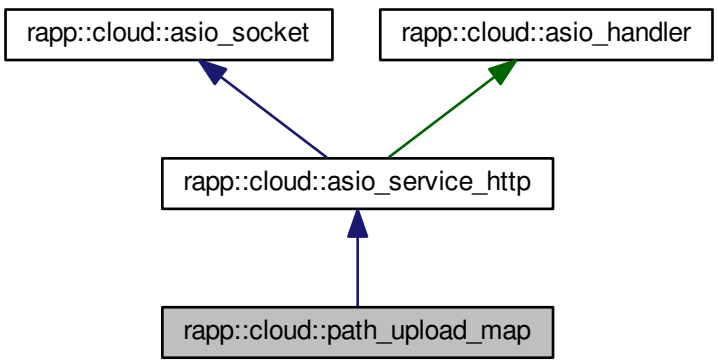
The documentation for this class was generated from the following file:

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

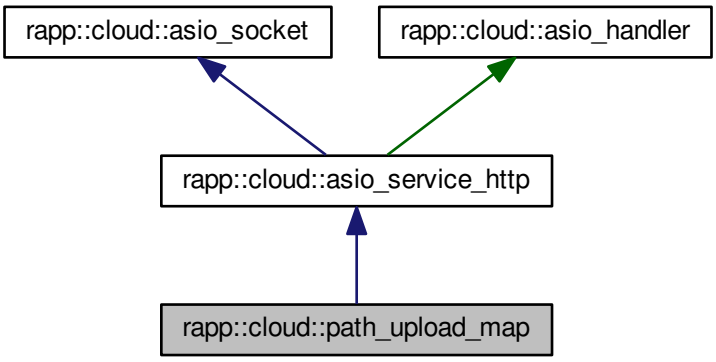
6.53 rapp::cloud::path_upload_map Class Reference

`#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

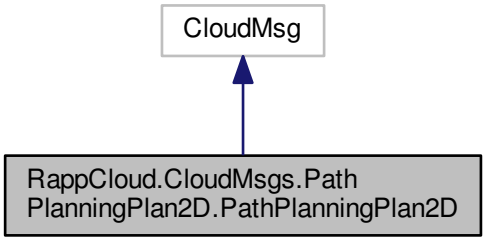
Definition at line 83 of file path_planning.hpp.

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

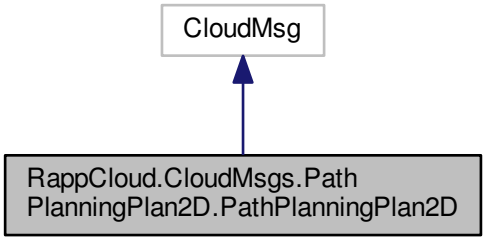
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/path_planning.hpp

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
```

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.map_name • Request.robot_type • Request.algorithm • Request.pose_start • Request.pose_goal

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

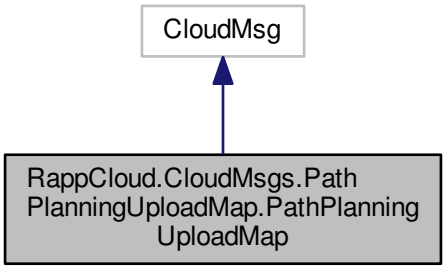
Definition at line 110 of file PathPlanningPlan2D.py.

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

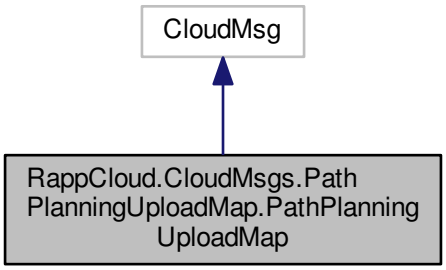
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.map_name • Request.png_file • Request.yaml_file

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

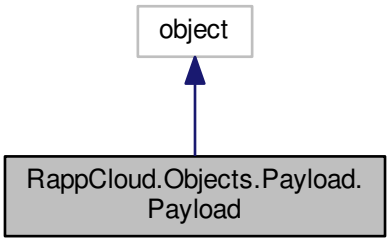
Definition at line 81 of file PathPlanningUploadMap.py.

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

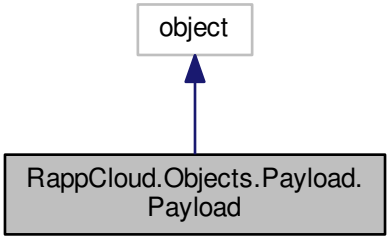
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py

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

∗∗*kwargs*	- 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

toDelAttr	(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

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

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

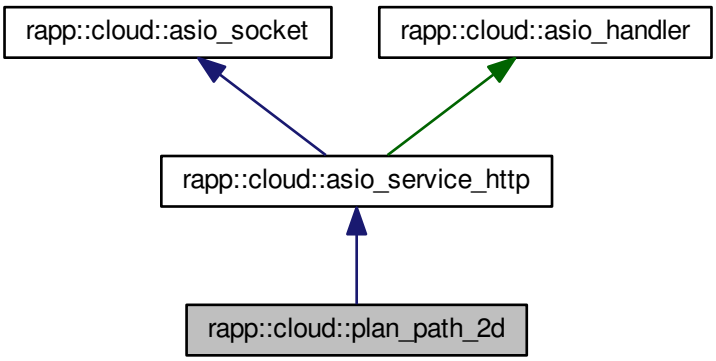
The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/path_planning.hpp

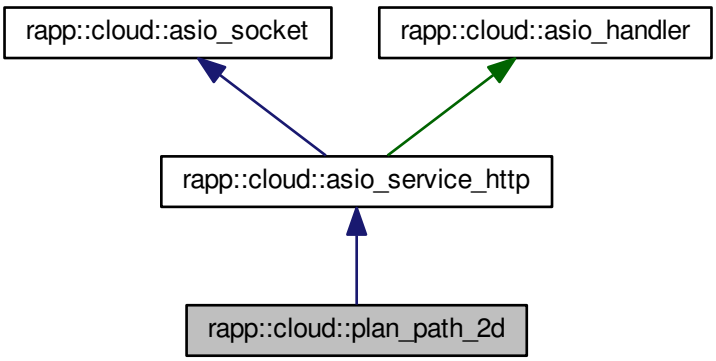
6.59 rapp::cloud::plan_path_2d Class Reference

`#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

\param	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)

  Consruct using code coordinates (a rectangle) and a label (URL, email, string, etc)
- qr_code ()=default

  Allow Empty Consructor.
- qr_code (const qr_code &)=default

  Copy Conatructor.
- 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*)

Consruct using code coordinates (a rectangle) and a label (URL, email, string, etc)

Parameters

centre_x	is coordinate
centre_y	is coordinate
label	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 Consructor.

6.60.2.3 rapp::object::qr_code::qr_code (const qr_code &) [default]

Copy Conatructor.

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 insensitvely 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:

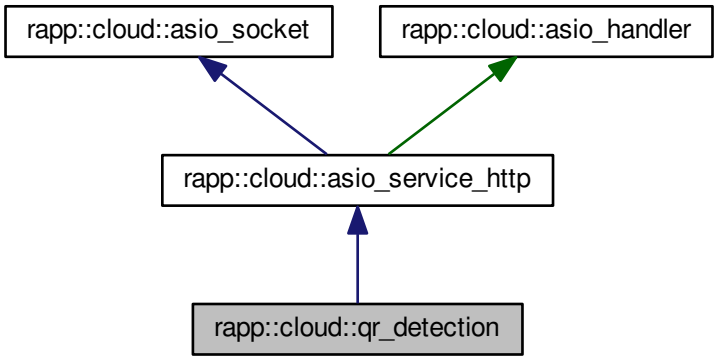
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr_code.hpp

6.61 rapp::cloud::qr_detection Class Reference

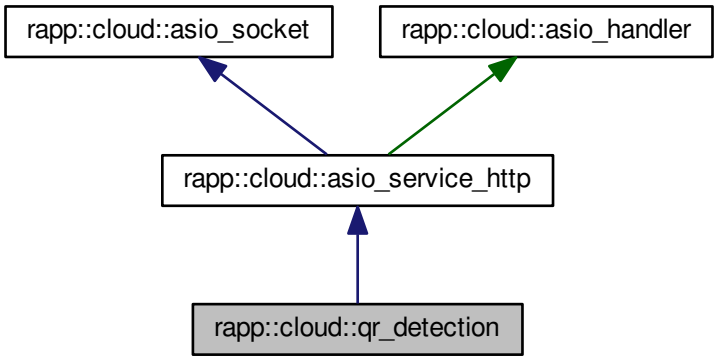
Asynchronous Service which will request the cloud to detect QR codes.

`#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

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

image	is a picture object pointer
callback	is the function that will receive a vector of detected qr(s)
image_format	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

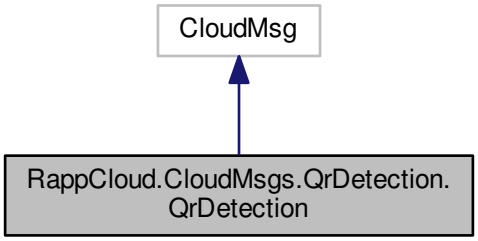
Alex Gkiokas a.gkiokas@ortelio.co.uk

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

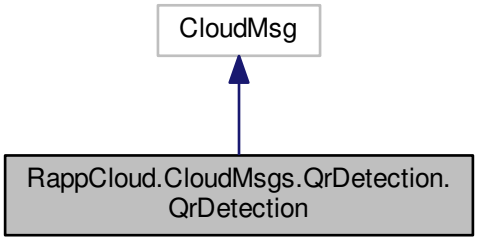
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr_code.hpp

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.imageFilepath

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.Utils.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.Utils.RandStrGen.RandStrGen.create (*size*) [static]

Generate a nwe random string.

Parameters

size	string - Number of characters for the random string to generate

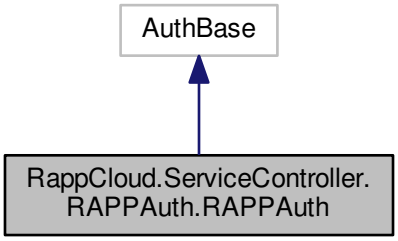
Definition at line 41 of file RandStrGen.py.

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

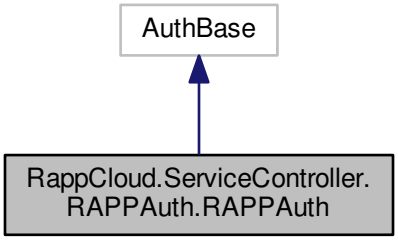
- /home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/RandStrGen.py

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

string	token
string	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

filepath	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-supsuperclass-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

test_type	Cognitive Exercise test type. Defaults to empty.

test_subtype: string

Parameters

test_subtype	Force exercise selection from this subtype. Defaults to empty.

test_diff: int

Parameters

test_diff	Force exercise selection from this difficulty. Defaults to empty.

test_index: int

Parameters

test_diff	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)

Gognitive get history records API service call.

test_type: string

Parameters

test_type	Cognitive Exercise test type. Defaults to empty.

time_from: int

Parameters

time_from	Retrieve history records from this timestamp value. Unix timestamp. Defaults to zero (0).

time_to: int

Parameters

time_from	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)

Gognitive get score records API service call.

test_type: string

Parameters

test_type	Cognitive Exercise test type. Defaults to empty.

time_to: int

Parameters

time_from	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*)

Gognitive record performance of an exercise API service call.

test_instance: string

Parameters

test_instance	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

email	User's email username

password: string

Parameters

password	User's email password

server: string

Parameters

server	The email provider imap address.

port: string

Parameters

port	The email provider imap port.

date_from: int

Parameters

date_from	Fetch emails since this timestamp value. Unix timestamp.

date_to: int

Parameters

date_to	Fetch emails up to this timestamp value. Unix timestamp.

email_status: string

Parameters

email_status	Email status (ALL, UNSEEN). Defaults to 'UNSEEN'

num_emails: int

Parameters

num_emails	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

email	User's email username

password: string

Parameters

password	User's email password

server: string

Parameters

server	The email provider imap address.

port: string

Parameters

port	The email provider imap port.

recipients: list

Parameters

recipients	List of recipients email addresses.

body: string

Parameters

body	The body of the email.

subject: string

Parameters

subject	The email subject.

attach_file: string

Parameters

attach_file	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, imageFilepath, fast =* `False`)

Face detection API service call.

imageFilepath: string

Parameters

imageFilepath	Path to the image file.

fast: bool

Parameters

fast	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

ipaddr	The machine's ipv4 address.

engine: string

Parameters

engine	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, imageFilepath*)

Hazard detection door check API service call.

imageFilepath: string

Parameters

imageFilepath	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

imageFilepath	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

imageFilepath	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

keywords	Desired keywords.

region: string

Parameters

region	language/region

topic: string

Parameters

topic	Main topic. e.g. 'sports', 'politics', etc

news_engine: string

Parameters

news_engine	The news search engine to use. Optional

num_news: string

Parameters

num_news	Number of news stories to request.

exclude_titles: list

Parameters

exclude_titles	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

imageFilepath	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

parent_class	The ontology parent class name.

child_class: string

Parameters

child_class	The ontology child class name.

recursive: bool

Parameters

recursive	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

ontology_class	The ontology class.

recursive: bool

Parameters

recursive	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

ontology_class	The ontology class.

recursive: bool

Parameters

recursive	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

map_name	The map name.

robot_type: string

Parameters

robot_type	The robot type. e.g 'NAO'

pose_start: dict

Parameters

pose_start	Start pose of the robot.

pose_goal: dict

Parameters

pose_goal	Goal pose of the robot.

algorithm: string

Parameters

algorithm	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

map_name	The map name

png_file: string

Parameters

png_file	Path to the map png file

yaml_file: string

Parameters

yaml_file	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

imageFilepath	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

audiofile	Path to the audio file.

audio_source: string

Parameters

audio_source	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

audiofile	Path to the audio file.

audio_source: string

Parameters

audio_source	Audio source format. e.g. 'nao_wav_1_ch'

language: string

Parameters

language	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

audiofile	Path to the audio file.

audio_source: string

Parameters

audio_source	Audio source format. e.g. 'nao_wav_1_ch'

language: string

Parameters

language	Language to use for speech recognition.

words: list

Parameters

words	To recognize words.

sentences: list

Parameters

sentences	Under consideration sentences. Same as words by default.

grammar: list

Parameters

grammar	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

text	Input text to translate to audio.

language: string

Parameters

language	Text language.

audio_file: string

Parameters

audio_file	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

city	City location.

weather_reporter: string

Parameters

weather_reporter	The weather reporter API to use. Defaults to 'forecast.io'

metric: int

Parameters

metric	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

city	City location.

weather_reporter: string

Parameters

weather_reporter	The weather reporter API to use. Defaults to 'forecast.io'

metric: int

Parameters

metric	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

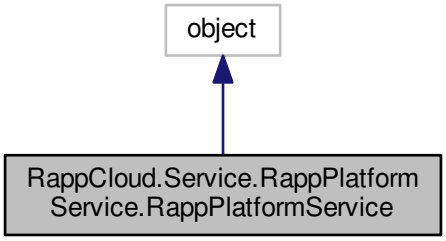
Definition at line 60 of file RappPlatformApi.py.

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

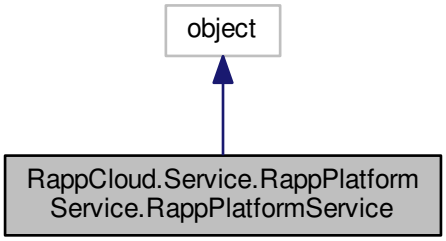
- /home/travis/rapp_temp/rapp-api/python/RappCloud/RappPlatformApi.py

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 patform 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

∗∗*kwargs*	- 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 patform service full url path.

Parameters

svcUrlName	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]

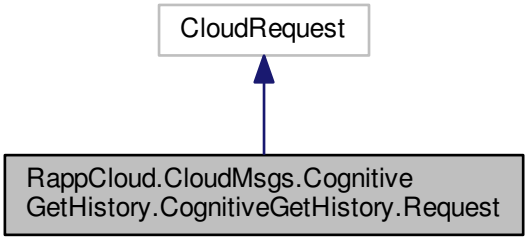
Definition at line 63 of file RappPlatformService.py.

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

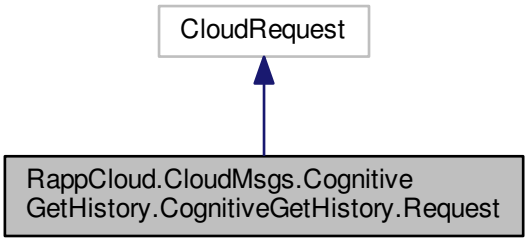
- /home/travis/rapp_temp/rapp-api/python/RappCloud/Service/RappPlatformService.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • test_type • time_from • time_to

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.

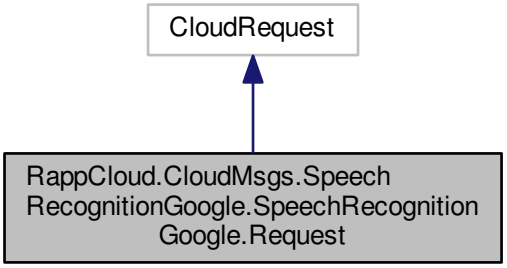
Definition at line 40 of file CognitiveGetHistory.py.

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

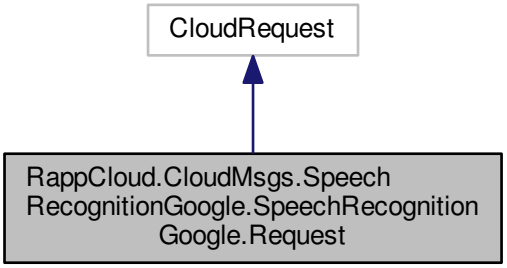
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • audio_source • audiofile • language

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.

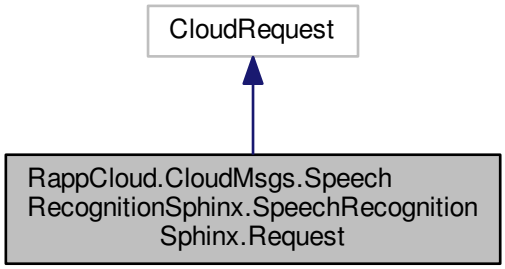
Definition at line 30 of file SpeechRecognitionGoogle.py.

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

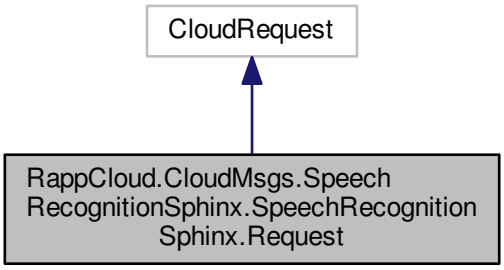
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionGoogle.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • audio_source • audiofile • language • words • sentences • grammar

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.

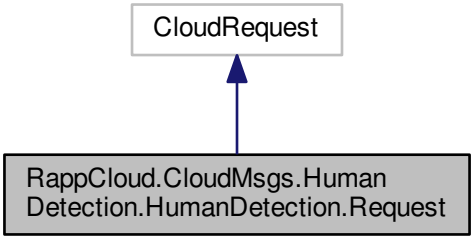
Definition at line 36 of file SpeechRecognitionSphinx.py.

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

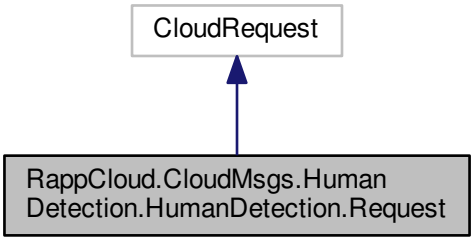
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • imageFilepath

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.

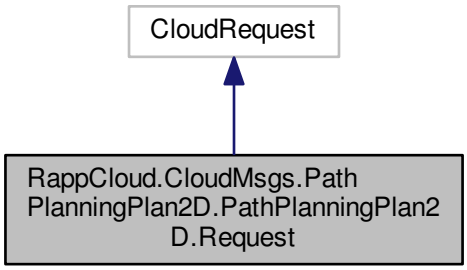
Definition at line 25 of file HumanDetection.py.

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

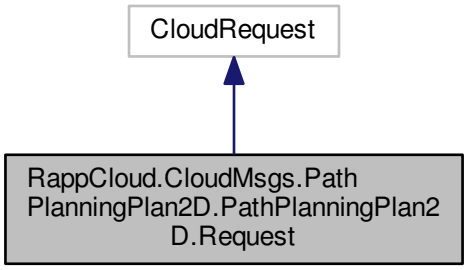
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py

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

***kwargs	- Keyword arguments. Apply values to the request attributes. • map_name • robot_type • algorithm • pose_start • pose_goal

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.)

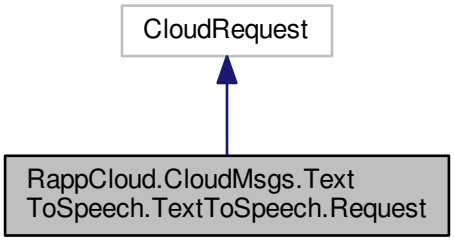
Definition at line 39 of file PathPlanningPlan2D.py.

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

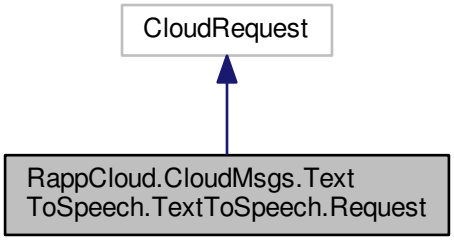
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • text • language

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.

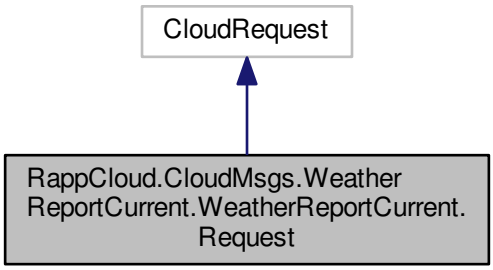
Definition at line 32 of file TextToSpeech.py.

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

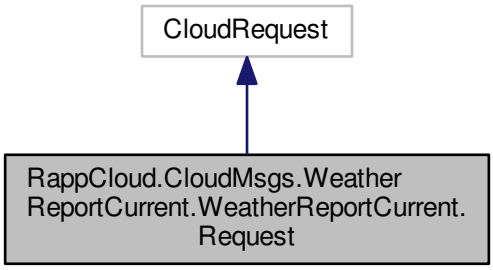
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py

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

***kwargs	- Keyword arguments. Apply values to the request attributes. • city • weather_reporter • metric

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" .

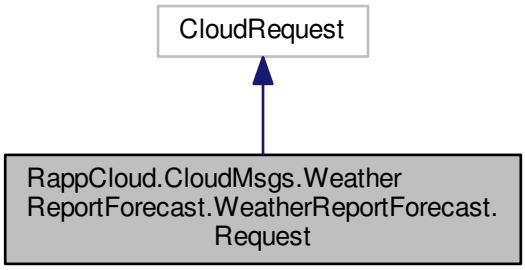
Definition at line 32 of file WeatherReportCurrent.py.

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

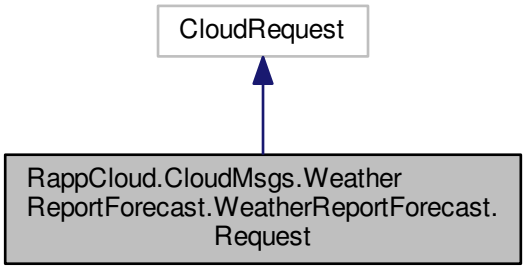
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportCurrent.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • city • weather_reporter • metric

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" .

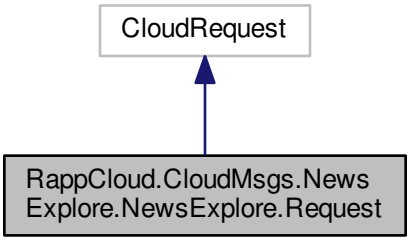
Definition at line 32 of file WeatherReportForecast.py.

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

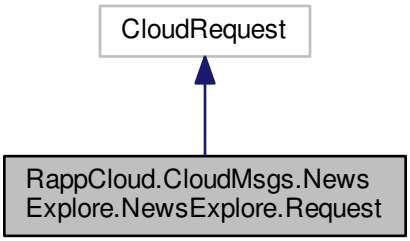
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportForecast.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • news_engine • keywords • exclude_titles • region • topic • num_news

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.

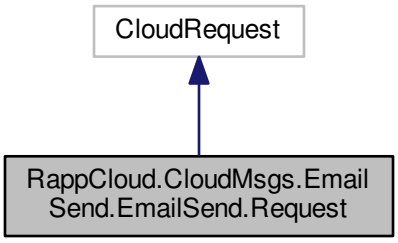
Definition at line 41 of file NewsExplore.py.

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

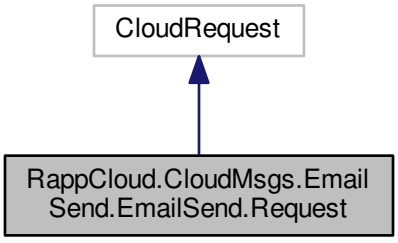
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • email • password • server • port • recipients • body • subject • attach_file

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.

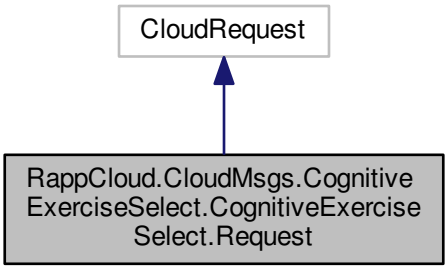
Definition at line 47 of file EmailSend.py.

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

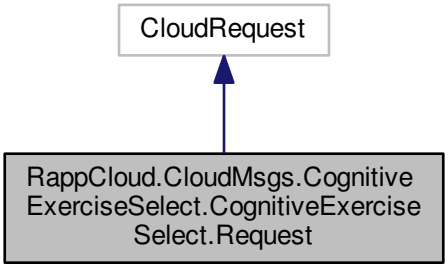
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • test_type • test_subtype • test_diff • test_index

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.

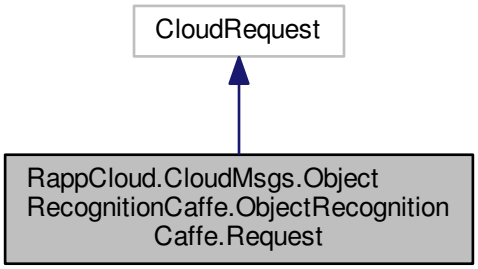
Definition at line 42 of file CognitiveExerciseSelect.py.

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

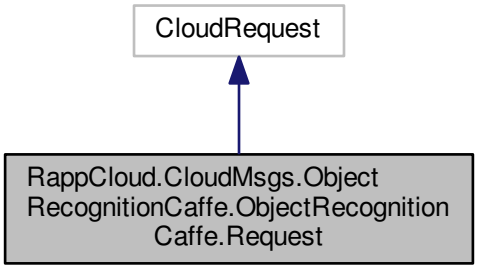
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • imageFilepath

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.

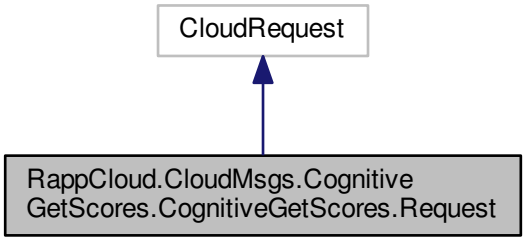
Definition at line 28 of file ObjectRecognitionCaffe.py.

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

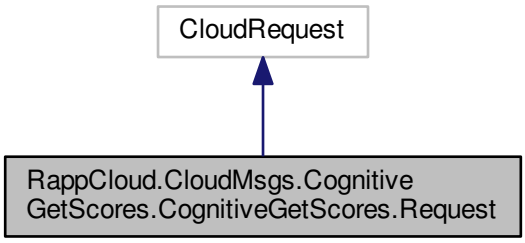
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • test_type • time_to

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.

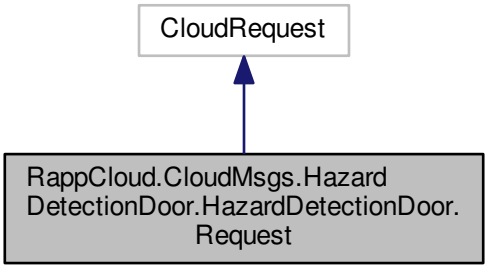
Definition at line 37 of file CognitiveGetScores.py.

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

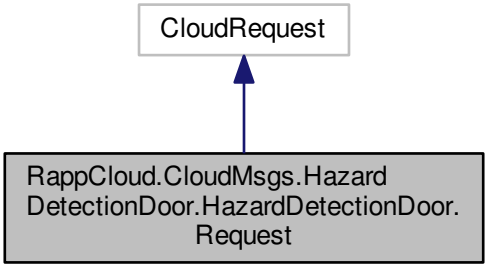
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • imageFilepath

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.

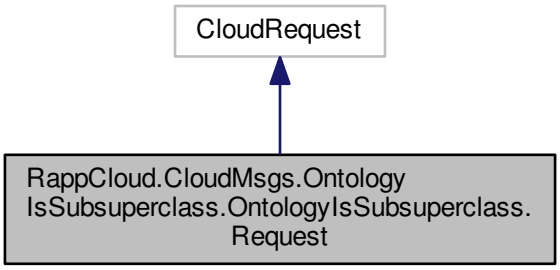
Definition at line 28 of file HazardDetectionDoor.py.

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

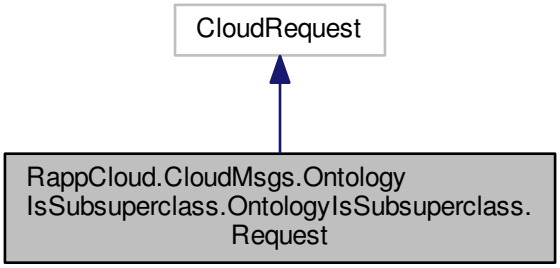
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py

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

***kwargs	- Keyword arguments. Apply values to the request attributes. • parent_class • child_class • recursive

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.

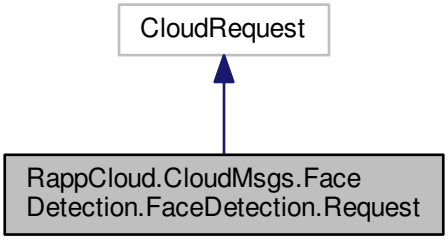
Definition at line 36 of file OntologyIsSubsuperclass.py.

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

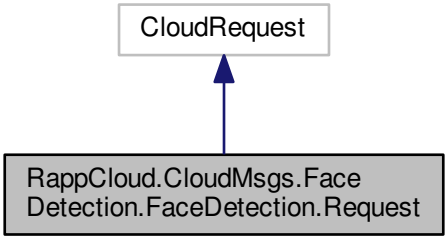
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • imageFilepath • fast

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.

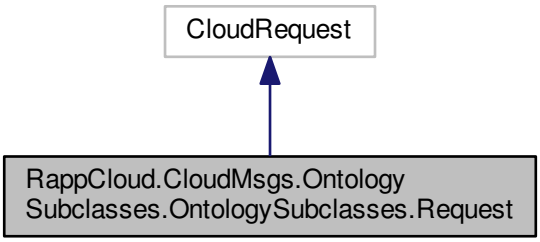
Definition at line 27 of file FaceDetection.py.

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

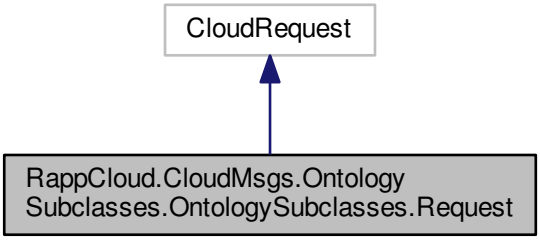
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py

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

***kwargs*	- 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.

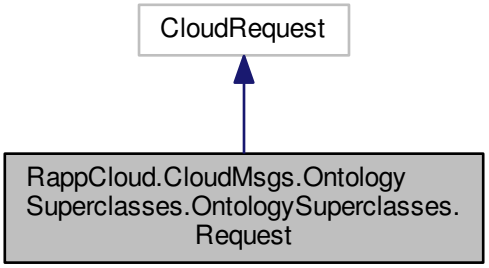
Definition at line 30 of file OntologySubclasses.py.

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

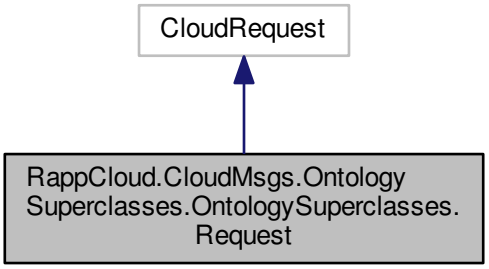
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py

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

∗∗*kwargs*	- 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.

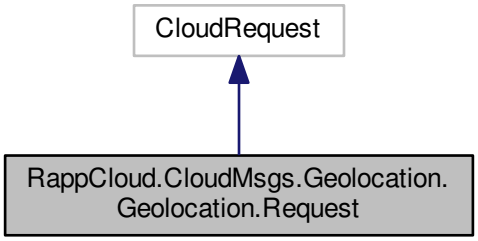
Definition at line 30 of file OntologySuperclasses.py.

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

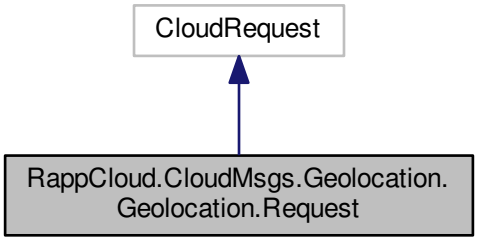
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • ipaddr • engine

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.

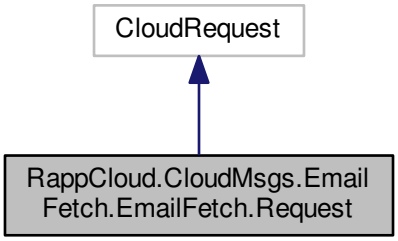
Definition at line 29 of file Geolocation.py.

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

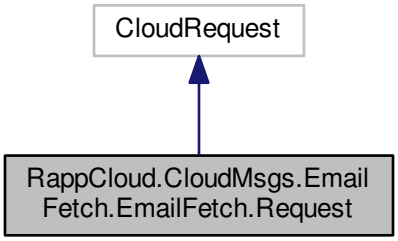
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • email • password • server • port • date_from • date_to • email_status • num_emails

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'.

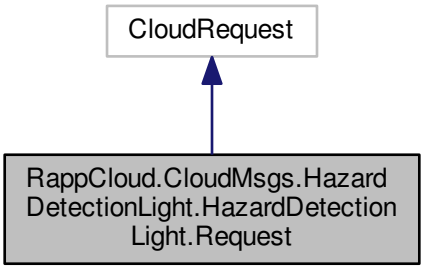
Definition at line 39 of file EmailFetch.py.

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

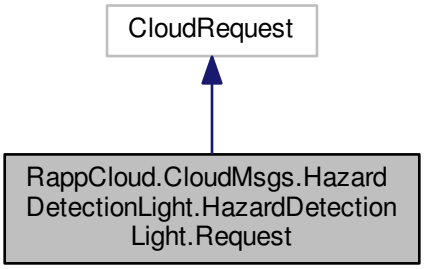
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailFetch.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • imageFilepath

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.

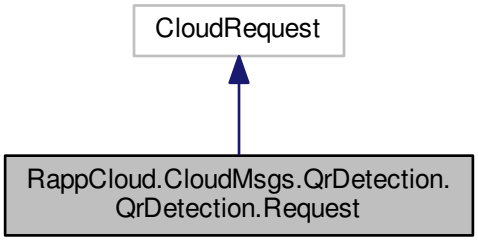
Definition at line 28 of file HazardDetectionLight.py.

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

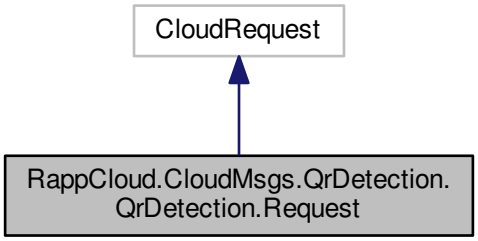
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • imageFilepath

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.

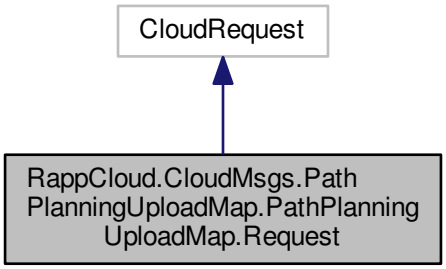
Definition at line 25 of file QrDetection.py.

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

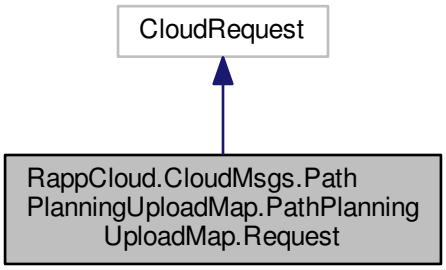
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • map_name • png_file • yaml_file

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.

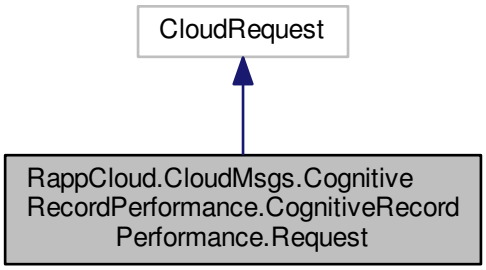
Definition at line 34 of file PathPlanningUploadMap.py.

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

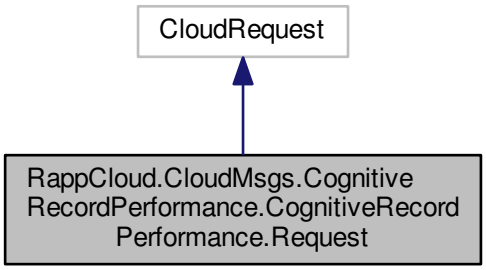
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • test_instance • score

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

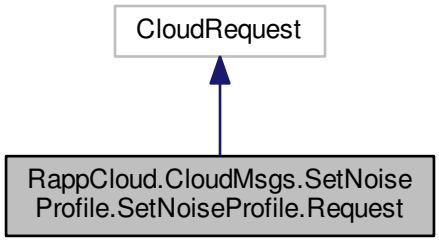
Definition at line 30 of file CognitiveRecordPerformance.py.

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

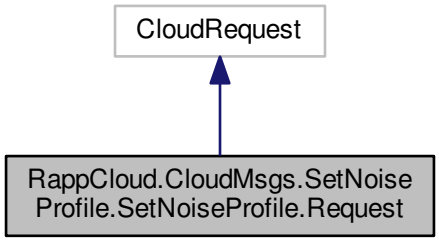
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • audio_source • audiofile

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.

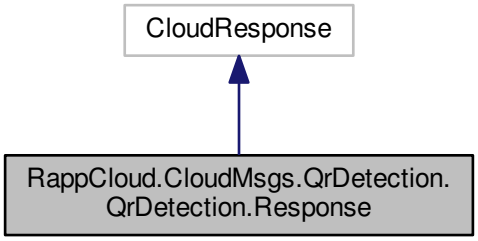
Definition at line 31 of file SetNoiseProfile.py.

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

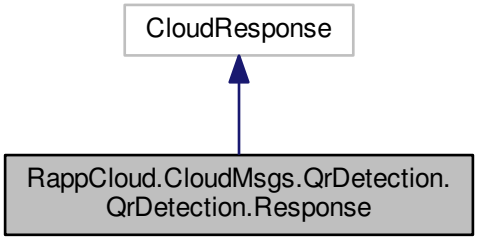
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • qr_centers • qr_messages

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.

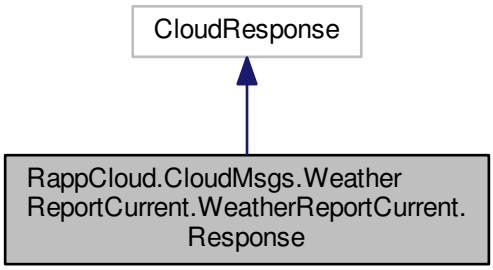
Definition at line 56 of file QrDetection.py.

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

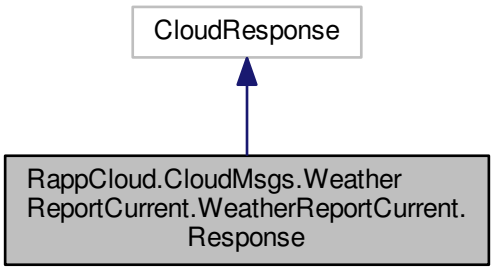
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • date • temperature • weather_description • humidity • visibility • pressure • wind_speed • wind_temperature • wind_direction

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.

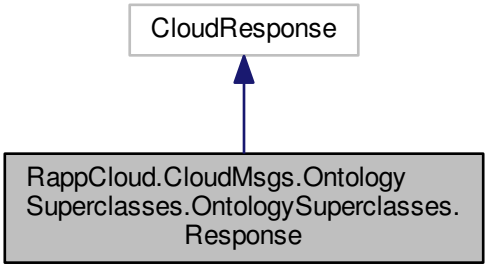
Definition at line 91 of file WeatherReportCurrent.py.

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

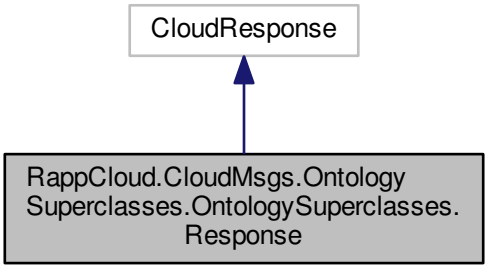
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportCurrent.py

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

***kwargs	- Keyword arguments. Apply values to the request attributes. • error • results

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.

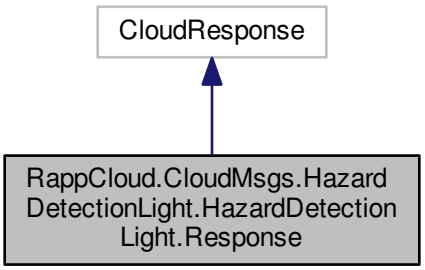
Definition at line 63 of file OntologySuperclasses.py.

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

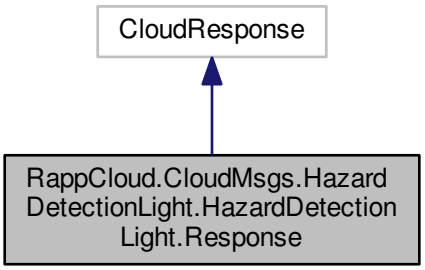
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • light_level

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.

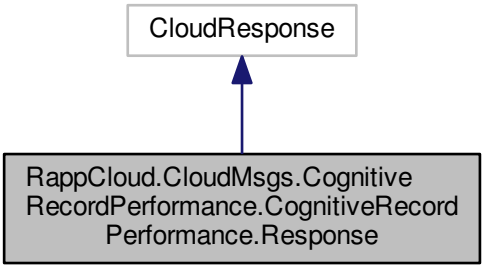
Definition at line 59 of file HazardDetectionLight.py.

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

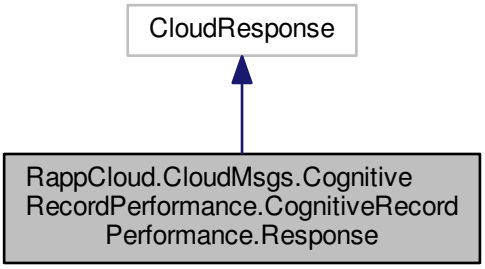
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • performance_entry

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.

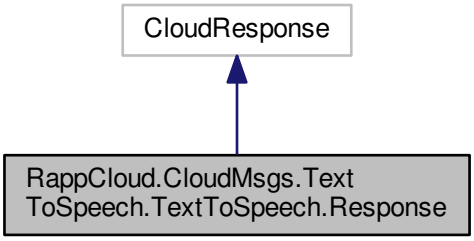
Definition at line 65 of file CognitiveRecordPerformance.py.

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

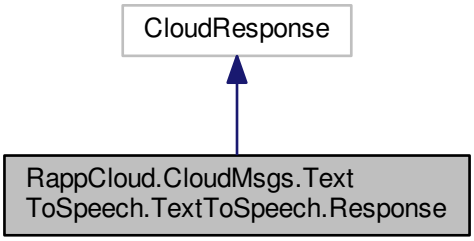
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • payload • encoding • basename

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

destfile	- 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.

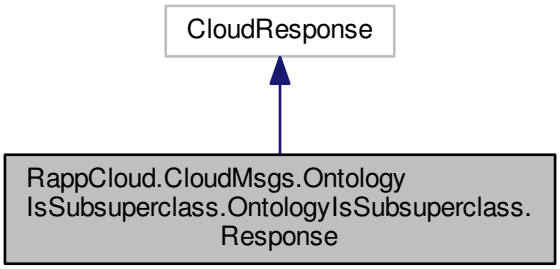
Definition at line 75 of file TextToSpeech.py.

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

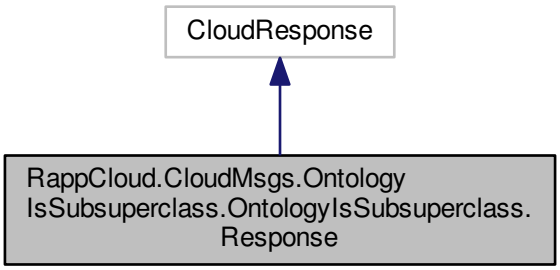
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py

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

***kwargs	- Keyword arguments. Apply values to the request attributes. • error • result

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.

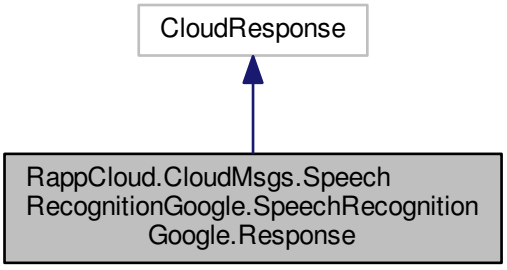
Definition at line 70 of file OntologyIsSubsuperclass.py.

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

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

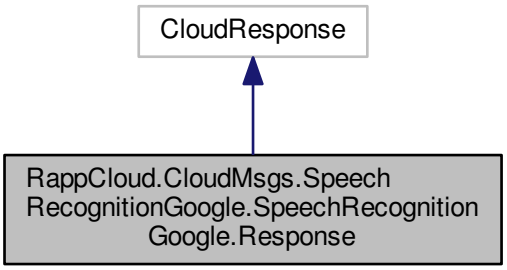
6.100 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.-Response Class Reference

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • error • words • alternatives

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.

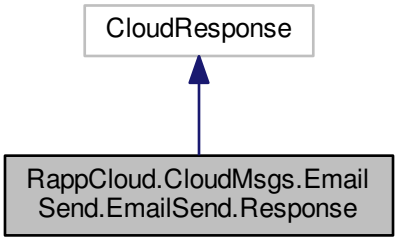
Definition at line 67 of file SpeechRecognitionGoogle.py.

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

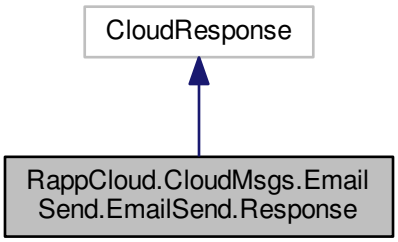
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionGoogle.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • error

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.

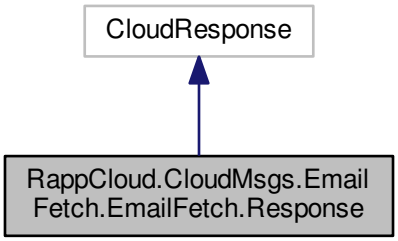
Definition at line 89 of file EmailSend.py.

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

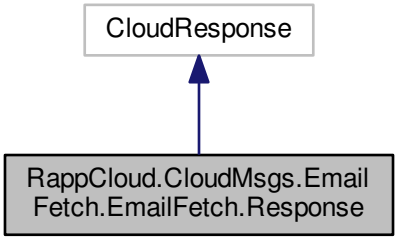
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • emails

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.

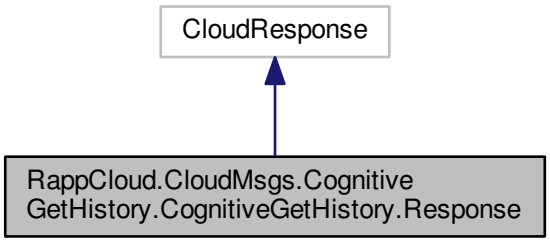
Definition at line 87 of file EmailFetch.py.

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

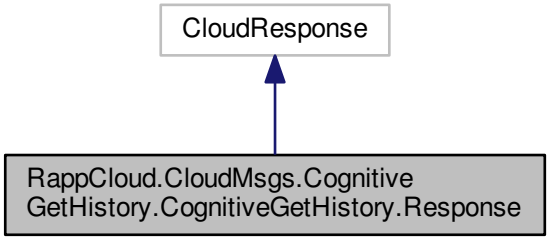
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailFetch.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • records

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.

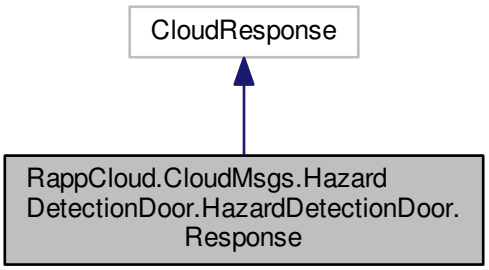
Definition at line 74 of file CognitiveGetHistory.py.

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

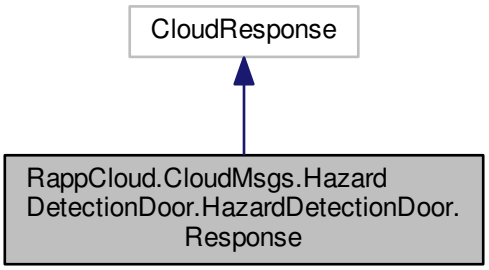
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • door_angle

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.

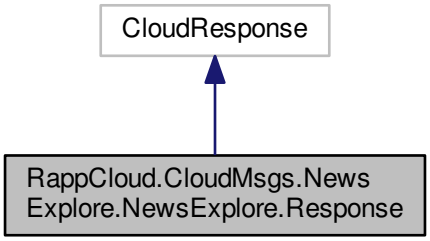
Definition at line 57 of file HazardDetectionDoor.py.

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

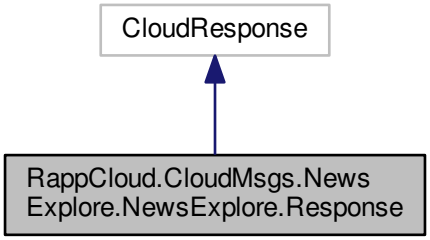
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error

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: ” }.

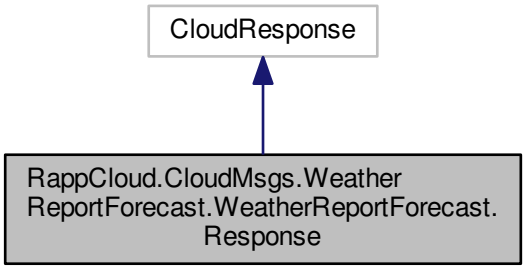
Definition at line 81 of file NewsExplore.py.

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

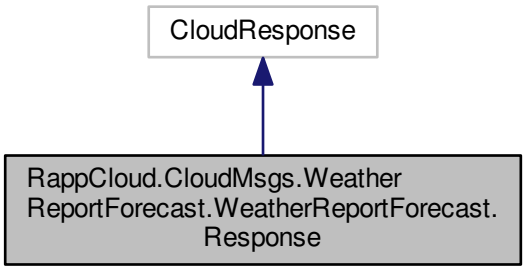
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • forecast

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: ”}.

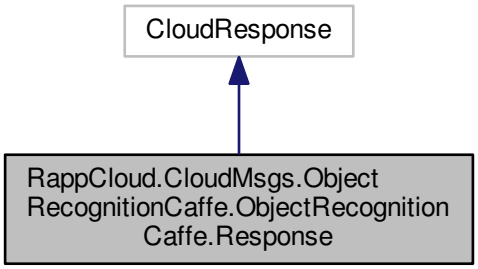
Definition at line 70 of file WeatherReportForecast.py.

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

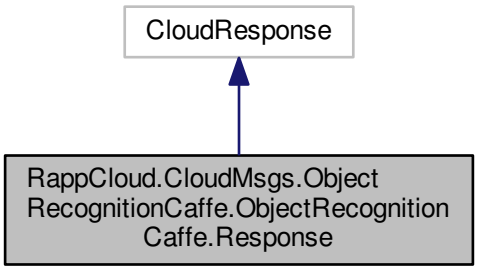
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportForecast.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • object_class

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.

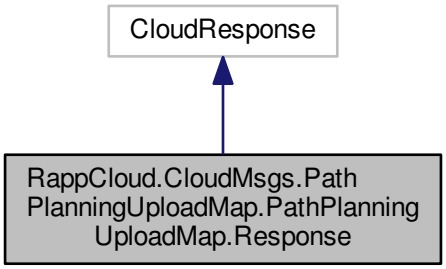
Definition at line 59 of file ObjectRecognitionCaffe.py.

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

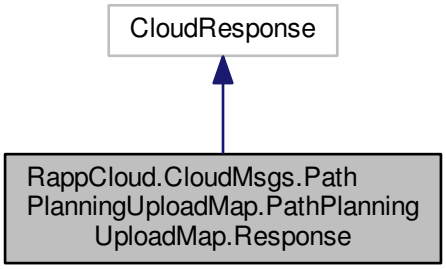
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • error

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.

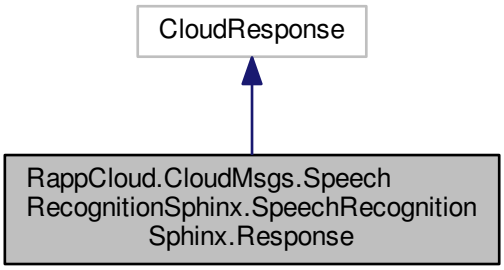
Definition at line 64 of file PathPlanningUploadMap.py.

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

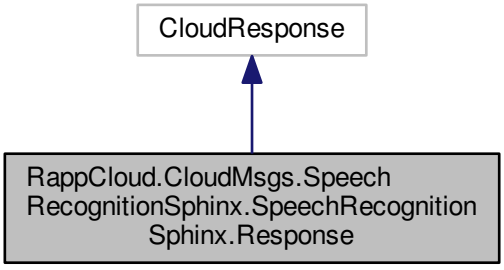
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • words

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.

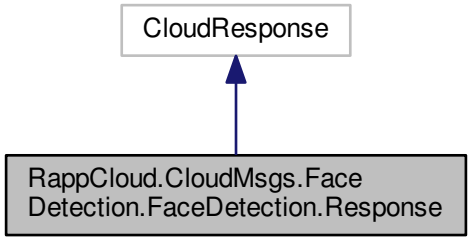
Definition at line 76 of file SpeechRecognitionSphinx.py.

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

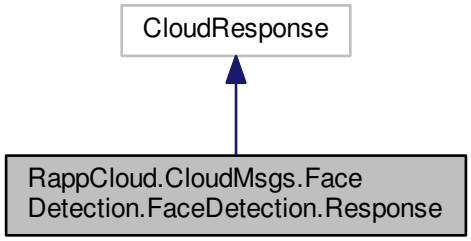
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • faces

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.

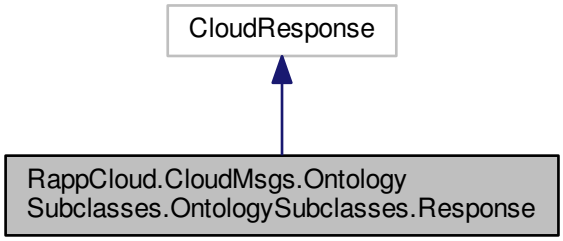
Definition at line 58 of file FaceDetection.py.

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

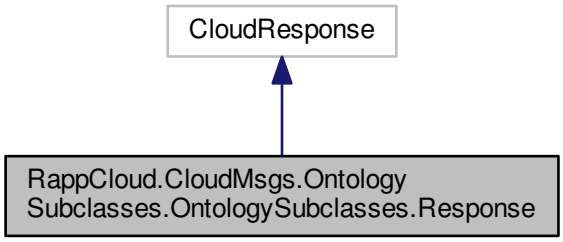
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • error • results

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.

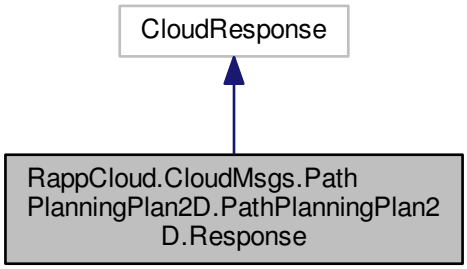
Definition at line 63 of file OntologySubclasses.py.

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

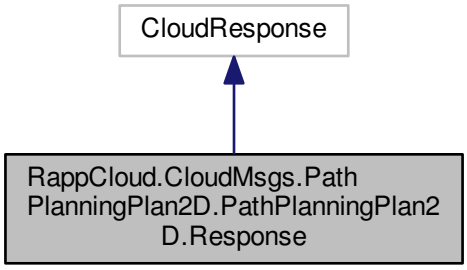
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py

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

  Ff 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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • error

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

Ff 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.

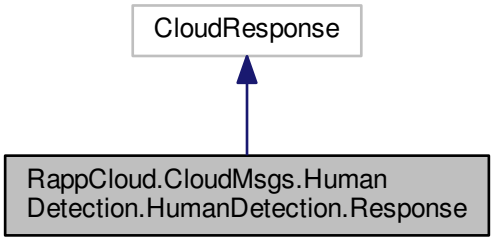
Definition at line 88 of file PathPlanningPlan2D.py.

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

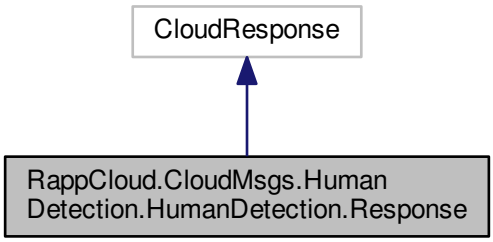
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • humans

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.

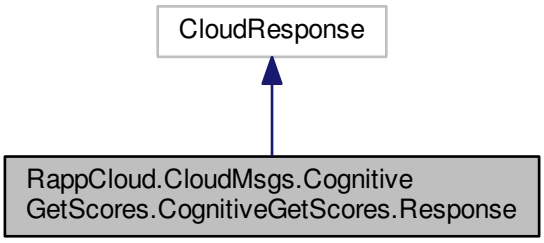
Definition at line 54 of file HumanDetection.py.

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

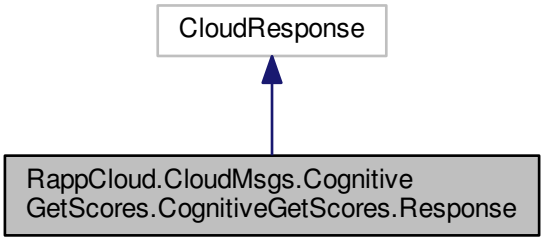
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py

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

***kwargs*	- Keyword arguments. Apply values to the request attributes. • error • test_classes • scores

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.

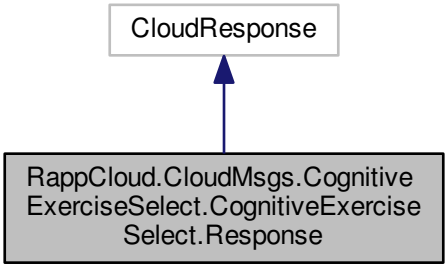
Definition at line 71 of file CognitiveGetScores.py.

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

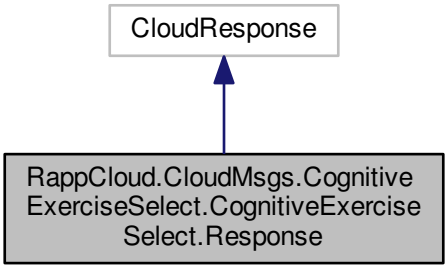
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • questions • possib_ans • correct_ans • test_instance • test_type • test_subtype

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.

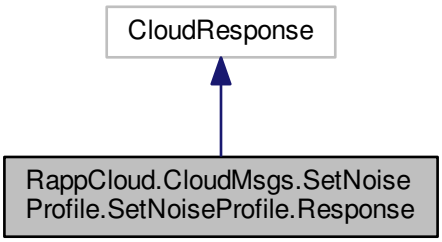
Definition at line 98 of file CognitiveExerciseSelect.py.

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

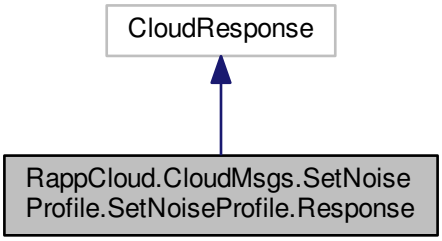
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error

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.

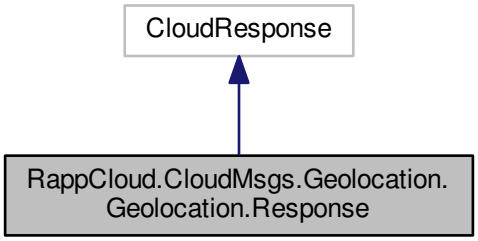
Definition at line 60 of file SetNoiseProfile.py.

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

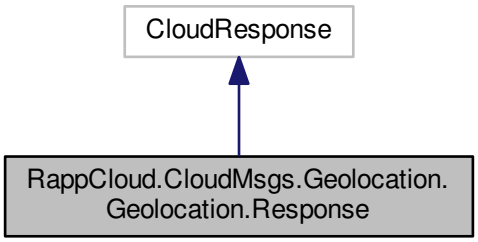
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py

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.
- longtitude

  The longtitude.
- 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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • error • city • country • country_code • latitude • longtitude • timezone • zip

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.longtitude

The longtitude.

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

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 clour or robot, as it essentially controlls 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

client	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

jobs	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]

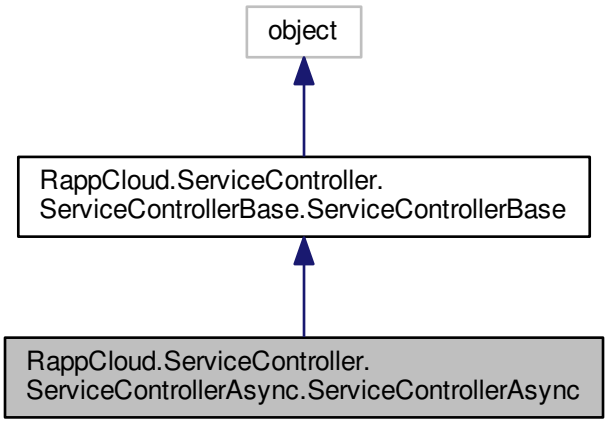
Definition at line 50 of file service_controller.hpp.

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

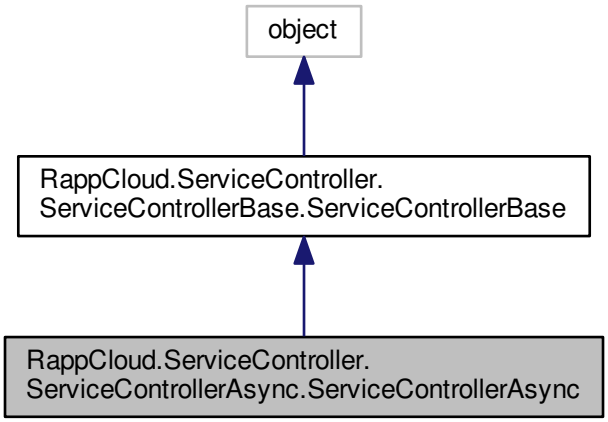
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/service_controller.hpp
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/service_controller.cpp

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

service	Service - Service instance.
max_workers	- 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

clb	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]`

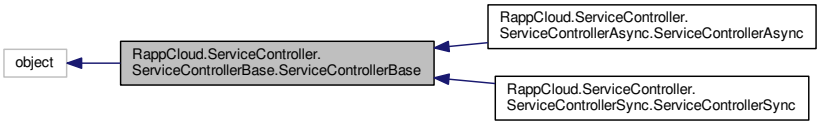
Definition at line 47 of file ServiceControllerAsync.py.

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

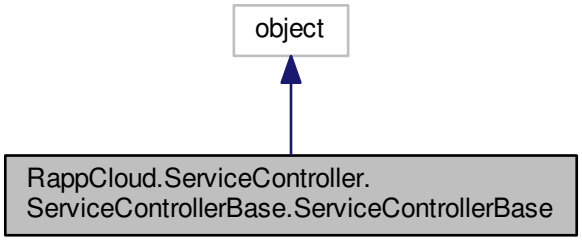
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerAsync.py

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

service	Service: Service instance
connection	dictionary: Connection information.
timeout	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

session	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

data	dictionary - the data payload to send.
files	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

data	dictionary - the data payload to send.
files	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

exc	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

obj	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. Otherwhise, x-www-urlencoded form is used.

Parameters

session	The session oject to use for this request.
urlpath	The complete urlpath of the request.
data	The data to send. Literal.
files	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_

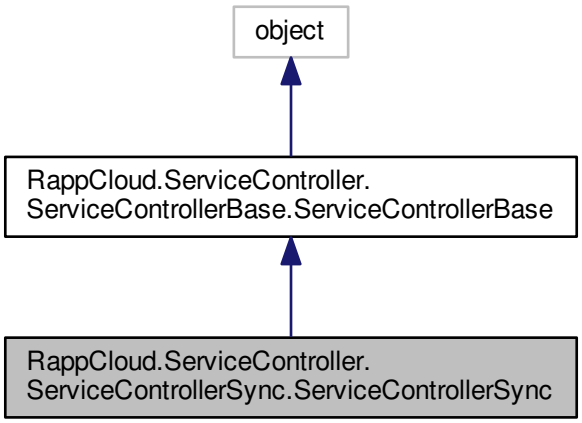
Definition at line 59 of file ServiceControllerBase.py.

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

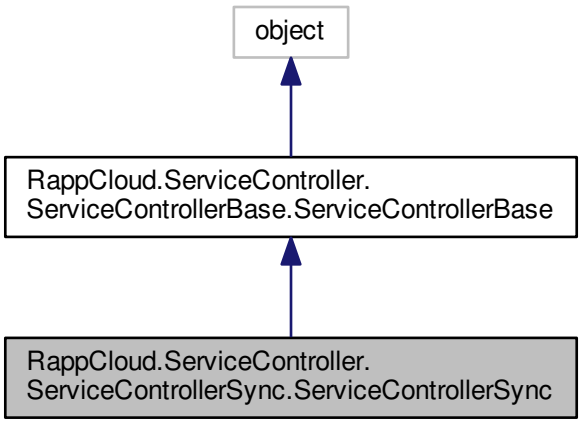
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerBase.py

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

service	Service - Service 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:

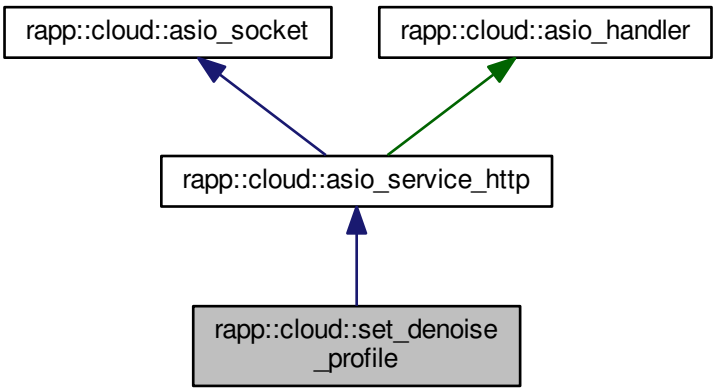
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerSync.py

6.122 rapp::cloud::set_denoise_profile Class Reference

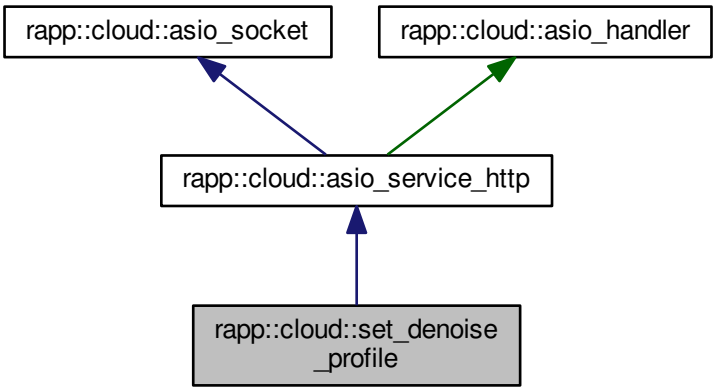
setting the denoising audio profile for speech recognition

`#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

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

file	is the noise audio file used for de-noising
user	is the user denoise profile
token	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)

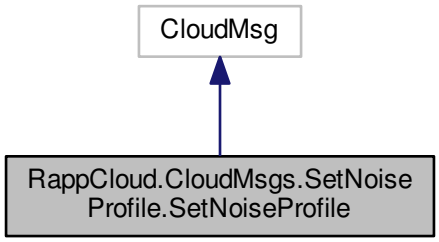
Definition at line 57 of file set_denoise_profile.hpp.

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

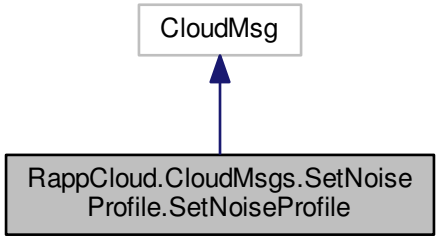
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/set_denoise_profile.hpp

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.audio_source • Request.audiofile

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:

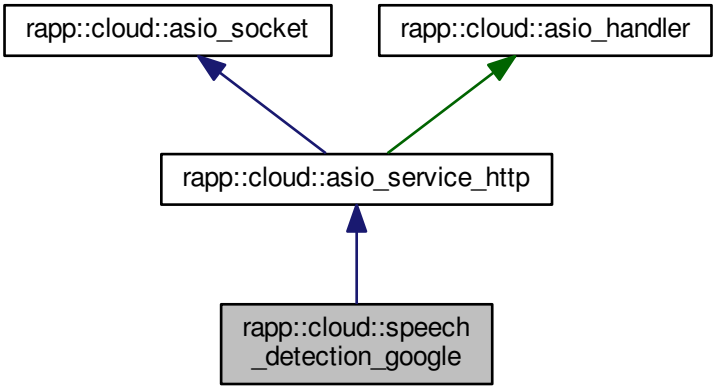
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py

6.124 rapp::cloud::speech_detection_google Class Reference

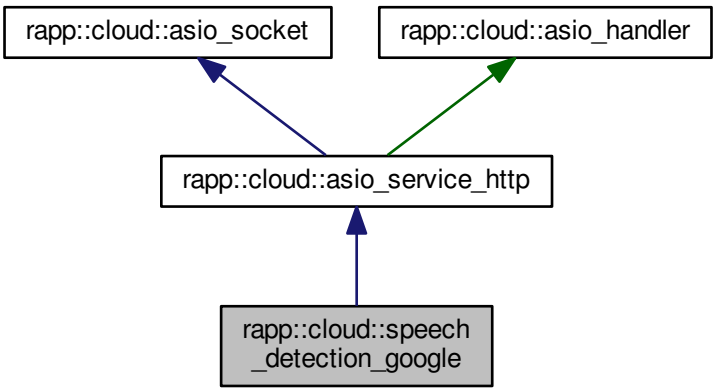
delegate speech-to-text to Google via RAPP

```
#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

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

file	is the audio file used for speech recognition.

Note

the audio file should be an inheriting class (

See Also

objects/audio/audio.hpp)

Parameters

language	defines the language used for speech recognition (e.g., 'en', 'gr', etc.)
user	is required so that denoising can take place

callback	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:

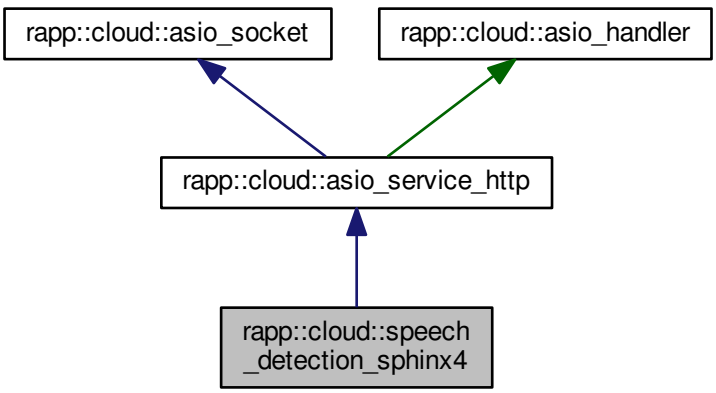
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/speech_detection_google.hpp

6.125 rapp::cloud::speech_detection_sphinx4 Class Reference

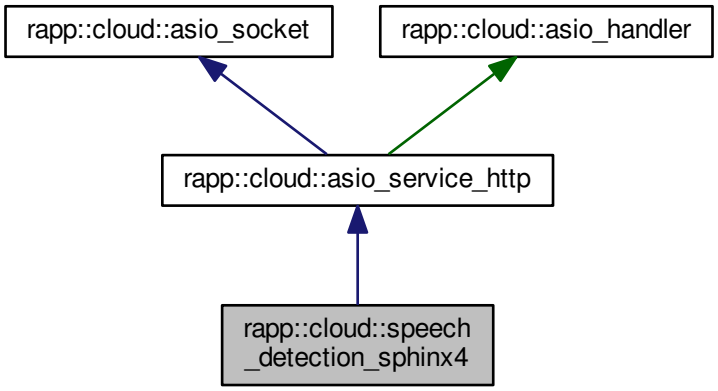
speech-to-text recognition using CMU sphinx4

`#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

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

audio	is the actual binary sound file
language	is the language used for speech to text
grammar	is the Grammars used in Spc2Txt
user	is the user token
words	will be searched for in the audio
sentences	will be under consideration
callback	will be executed once the rapp cloud has responded
token	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.

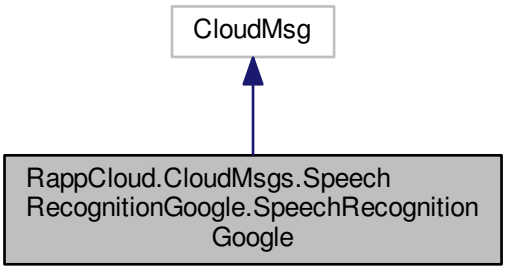
Definition at line 113 of file speech_detection_sphinx4.hpp.

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

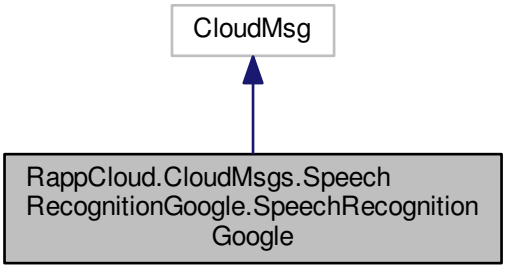
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/speech_detection_-sphinx4.hpp

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.audio_source • Request.audiofile • Request.language

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

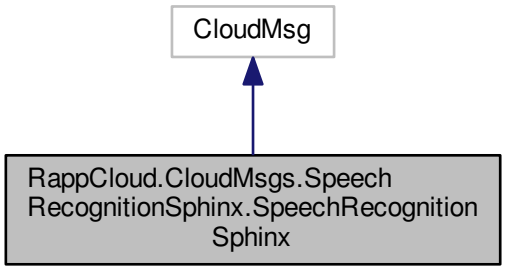
Definition at line 89 of file SpeechRecognitionGoogle.py.

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

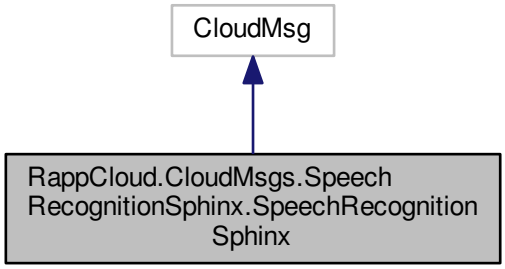
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionGoogle.py

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.audio_source • Request.audiofile • Request.language • Request.words • Request.sentences • Request.grammar

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

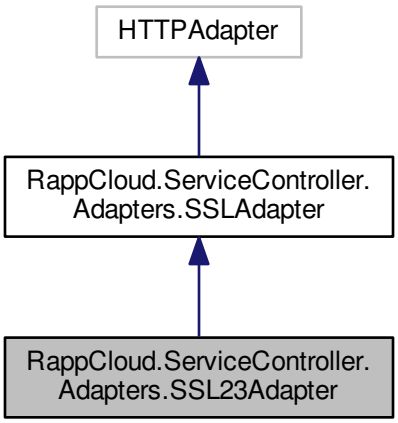
Definition at line 98 of file SpeechRecognitionSphinx.py.

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

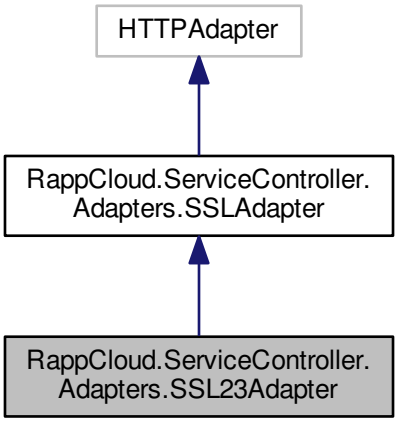
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py

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*)

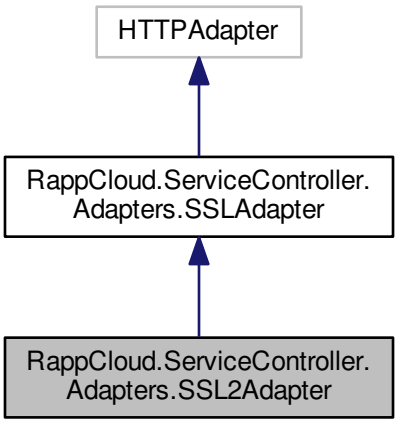
Definition at line 169 of file Adapters.py.

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

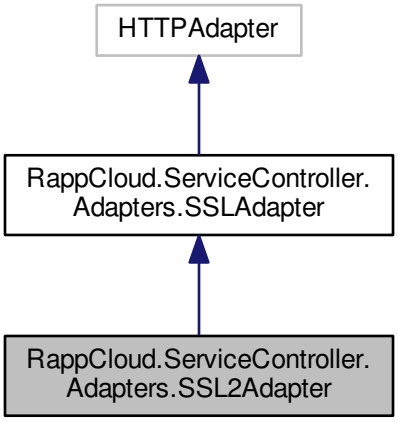
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

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*)

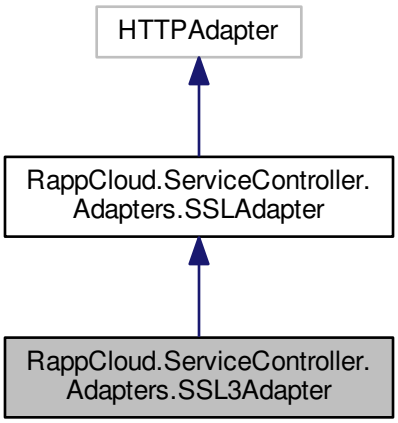
Definition at line 157 of file Adapters.py.

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

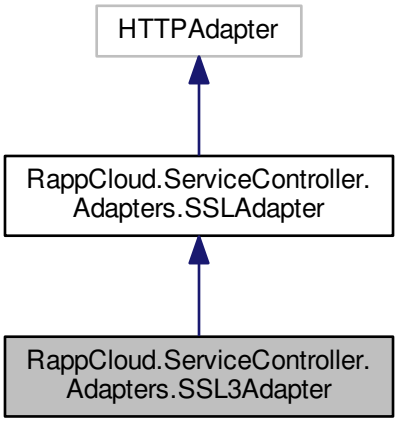
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

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*)

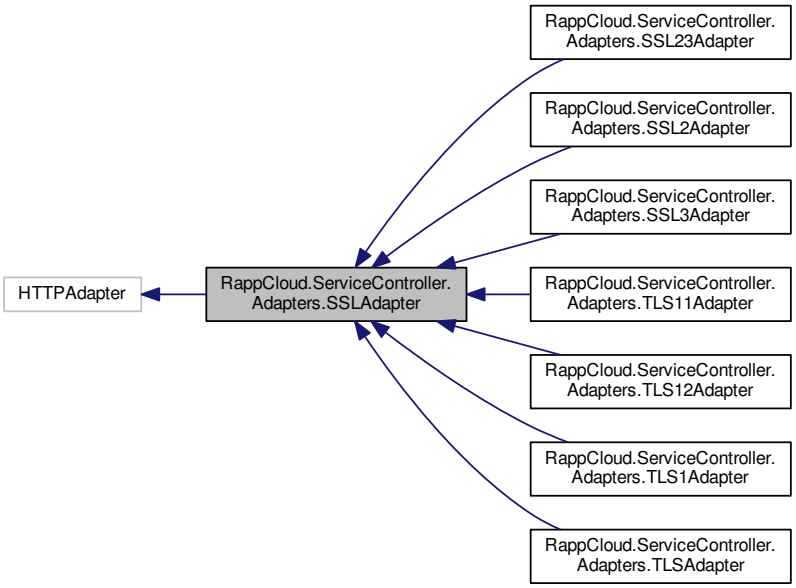
Definition at line 163 of file Adapters.py.

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

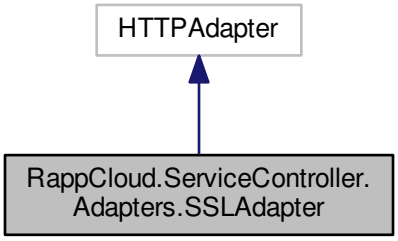
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

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:

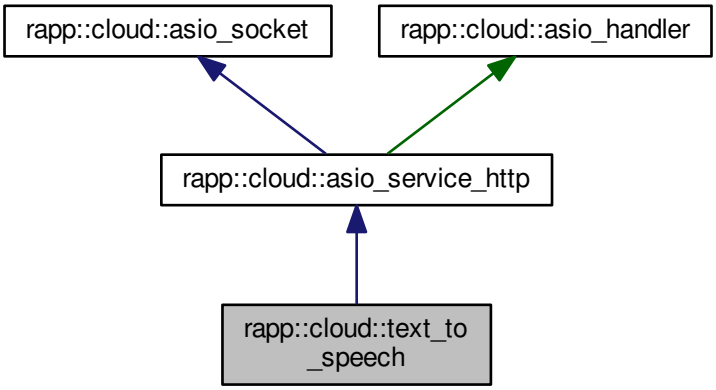
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

6.133 rapp::cloud::text_to_speech Class Reference

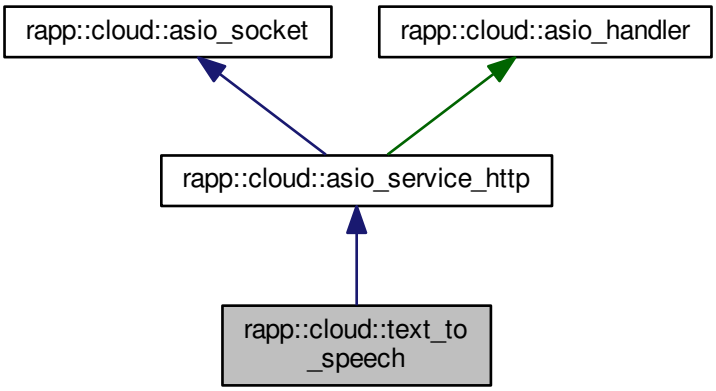
request speech audio from text

`#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

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

text	is the text to be converted to audio
language	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]

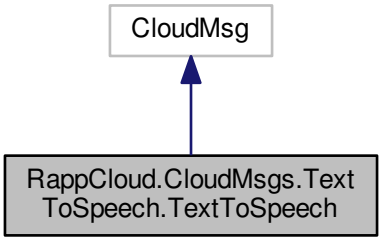
Definition at line 79 of file text_to_speech.hpp.

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

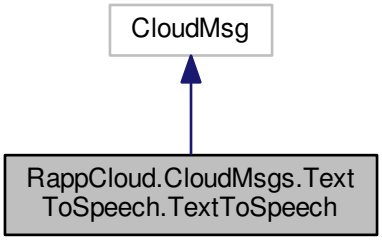
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/text_to_speech.hpp

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

∗∗*kwargs*	- Keyword arguments. Apply values to the request attributes. • Request.text • Request.language

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

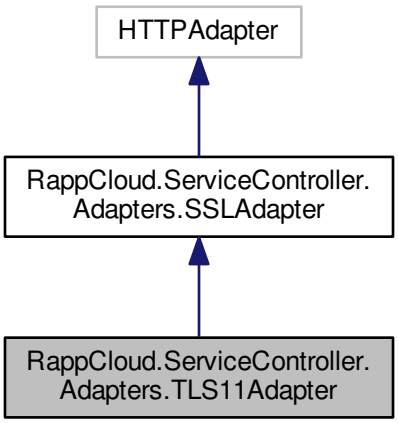
Definition at line 120 of file TextToSpeech.py.

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

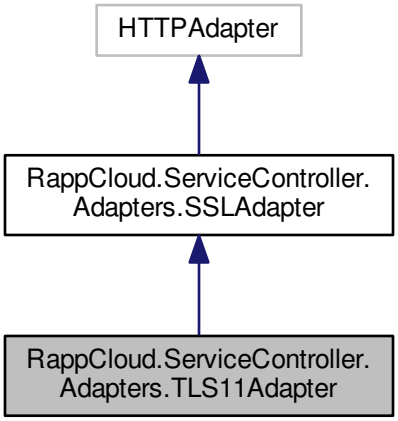
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py

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*)

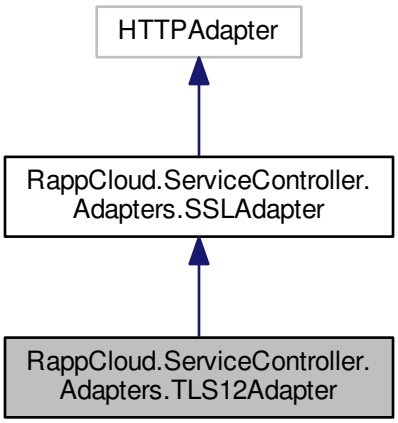
Definition at line 145 of file Adapters.py.

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

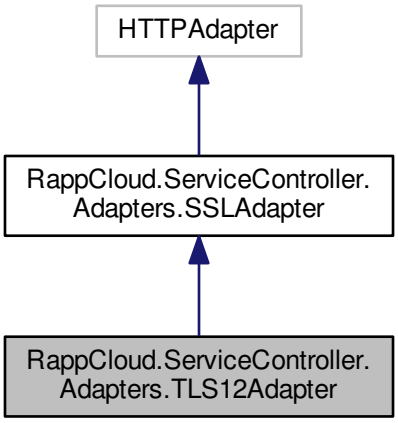
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

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

```
TLSv1.2 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*)

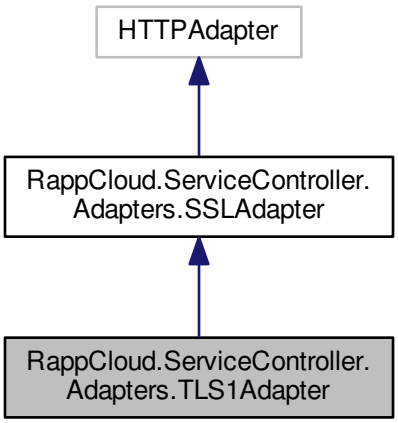
Definition at line 151 of file Adapters.py.

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

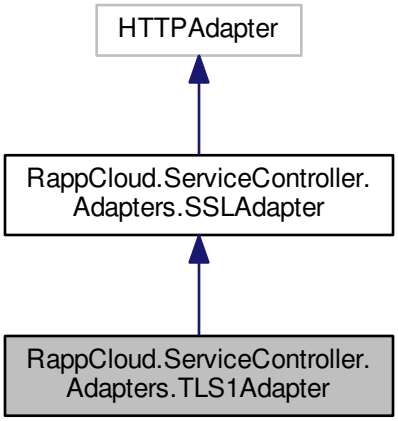
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

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

```
TLSv1 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*)

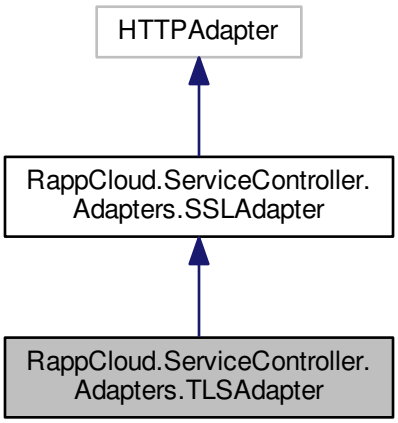
Definition at line 139 of file Adapters.py.

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

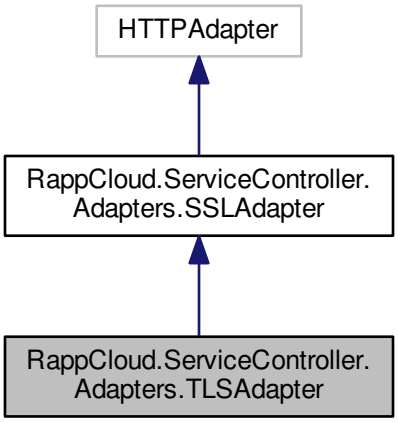
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

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:

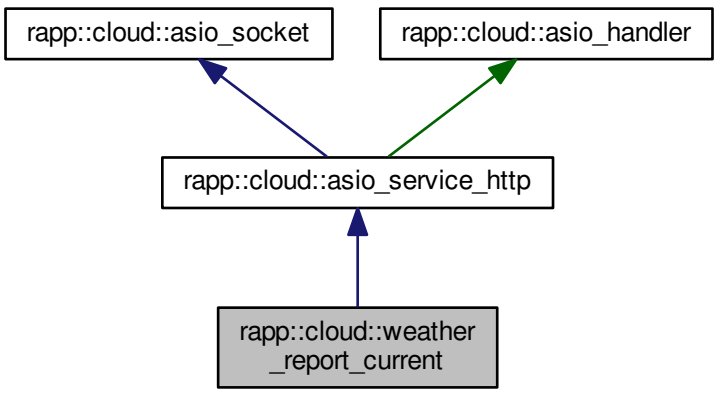
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

6.139 rapp::cloud::weather_report_current Class Reference

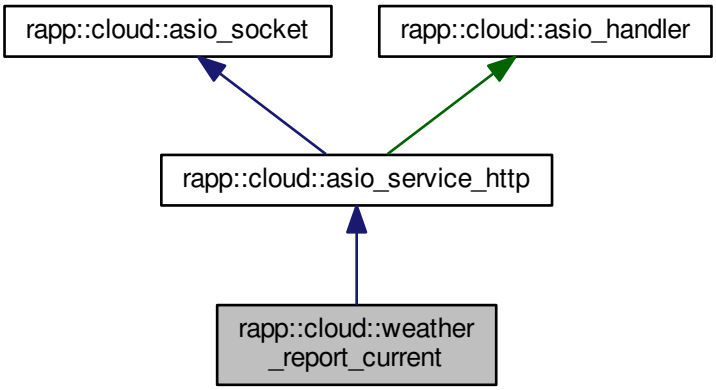
get current weather report

```
#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

city	location for the weather report query
weather_reporter	the weather API to use
metric	the return value type
token	the rapp auth token
callback	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:

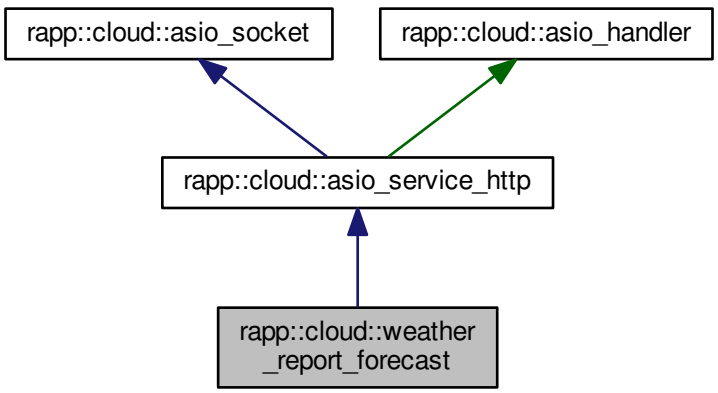
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp

6.140 rapp::cloud::weather_report_forecast Class Reference

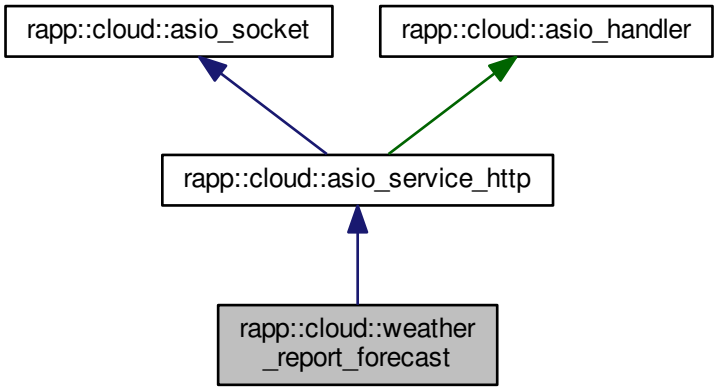
get weather forecast

`#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

city	location of the weather forecast query
weather_reporter	weather API being queried
metric	return value units
token	the rapp auth token
callback	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]

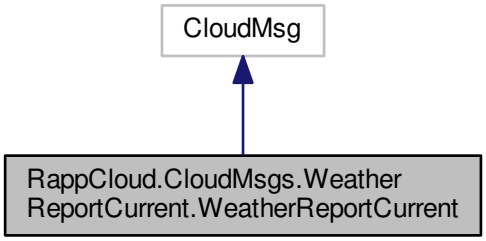
Definition at line 102 of file weather_report.hpp.

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

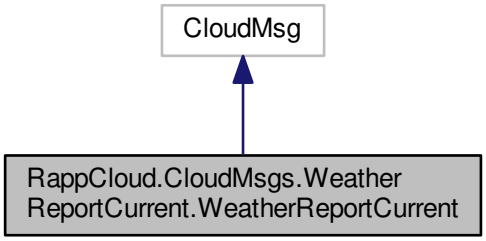
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.city • Request.weather_reporter • Request.metric

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

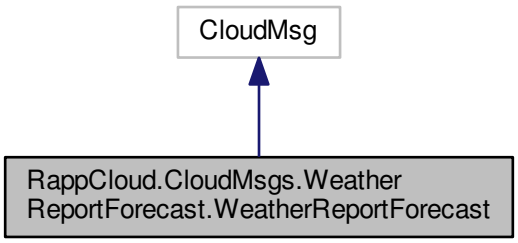
Definition at line 110 of file WeatherReportCurrent.py.

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

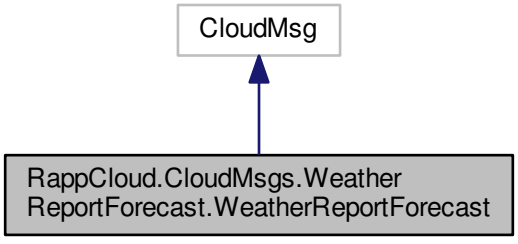
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportCurrent.py

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

∗∗*kwargs*	- Keyword argumen.ts. Apply values to the request attributes. • Request.city • Request.weather_reporter • Request.metric

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

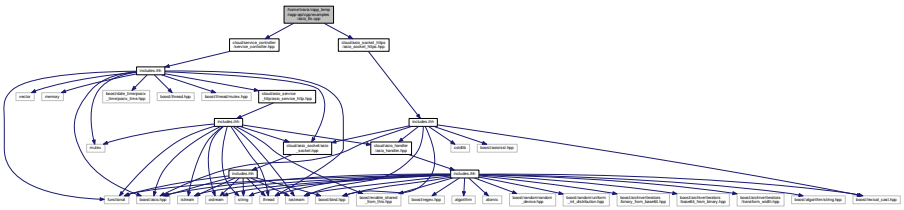
Chapter 7

File Documentation

7.1 /home/travis/rapp_temp/rapp-api/cpp/examples/asio_tls.cpp File Reference

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/asio_socket_https/asio_socket_https.hpp"
```

Include dependency graph for asio_tls.cpp:



Functions

- int main (int argc, char ∗argv[])

7.1.1 Function Documentation

7.1.1.1 int main (int *argc*, char ∗ *argv[]*)

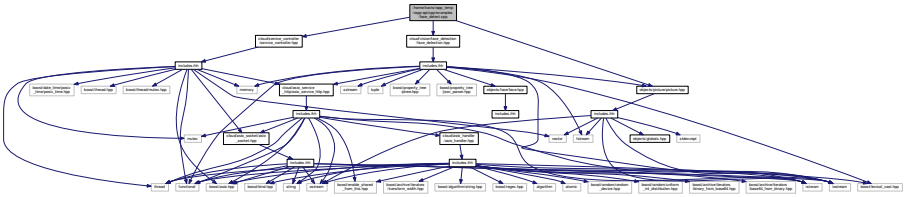
TODO: test under linux only

Definition at line 6 of file asio_tls.cpp.

7.2 /home/travis/rapp_temp/rapp-api/cpp/examples/face_detect.cpp File Reference

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/vision/face_detection/face_detection.hpp"
#include "objects/picture/picture.hpp"
```

Include dependency graph for face_detect.cpp:



Functions

- int main (int argc, char ∗argv[])

7.2.1 Function Documentation

7.2.1.1 int main (int *argc,* char ∗ *argv[]*)

Pass as param a PNG image

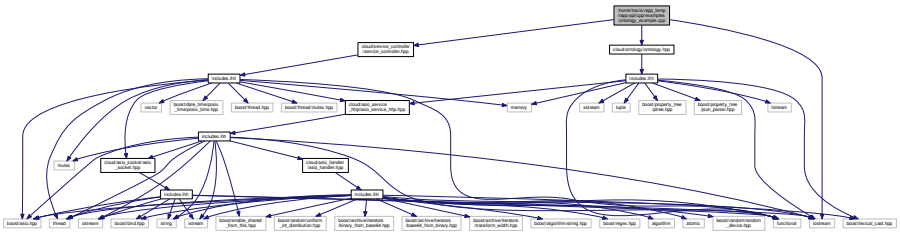
Definition at line 7 of file face_detect.cpp.

7.3 /home/travis/rapp_temp/rapp-api/cpp/examples/fetch_data.cpp File Reference

7.4 /home/travis/rapp_temp/rapp-api/cpp/examples/ontology_example.cpp File Reference

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/ontology/ontology.hpp"
#include <iostream>
```

Include dependency graph for ontology_example.cpp:



Functions

- int main (int argc, char ∗argv[])

7.4.1 Function Documentation

7.4.1.1 int main (int *argc,* char ∗ *argv[]*)

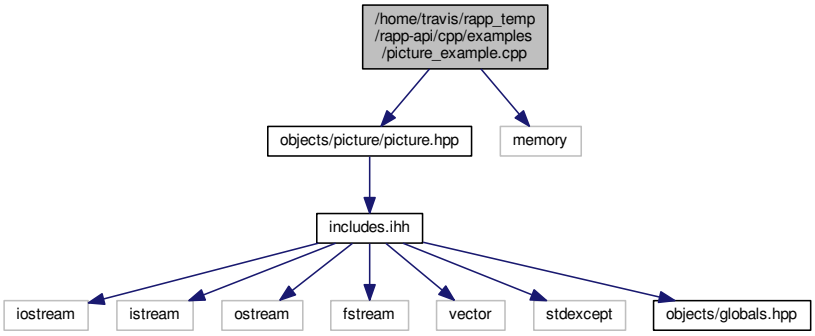
query subclasses and superclass of of argv[1]

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[]*)

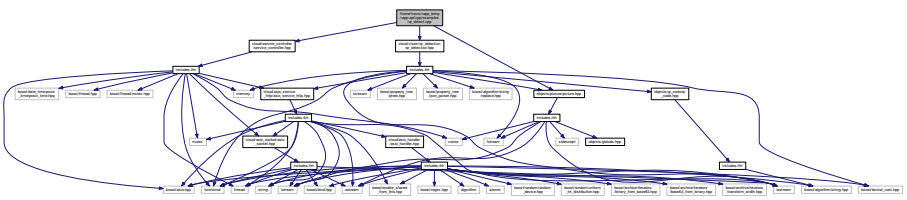
Open a picture and load it into an object

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:



Functions

- int main (int argc, char ∗argv[])

7.6.1 Function Documentation

7.6.1.1 int main (int *argc,* char ∗ *argv[]*)

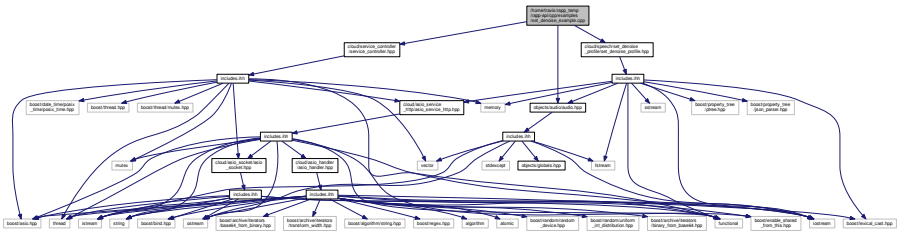
Pass as argv[1] an image with a QR code

Definition at line 7 of file qr_detect.cpp.

7.7 /home/travis/rapp_temp/rapp-api/cpp/examples/set_denoise_example.cpp File Reference

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/speech/set_denoise_profile/set_denoise_profile.hpp"
#include "objects/audio/audio.hpp"
```

Include dependency graph for set_denoise_example.cpp:



Functions

- int main (int argc, char ∗∗argv)

7.7.1 Function Documentation

7.7.1.1 int main (int *argc,* char ∗∗ *argv*)

set a denoise profile for a specific user argv[1] : audio file argv[2] : audio type (

See Also

audio.hpp) e.g.: `microphone_wav`, `nao_single_channel_wav` `nao_quad_channel_wav` `ogg` argv[3] : user (by default: `rapp`)

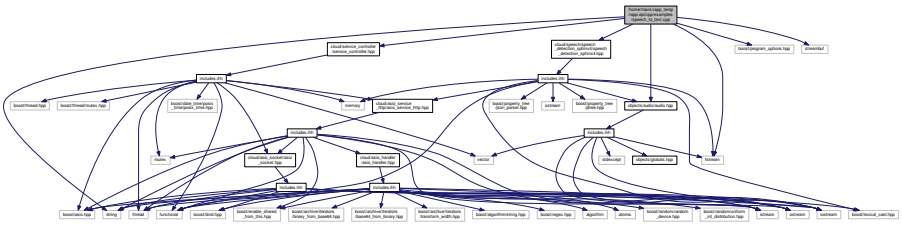
Definition at line 13 of file set_denoise_example.cpp.

7.8 /home/travis/rapp_temp/rapp-api/cpp/examples/speech_to_text.cpp File Reference

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/speech/speech_detection_sphinx4/speech_detection_sphinx4.-
```

```
hpp"
#include "objects/audio/audio.hpp"
#include <boost/program_options.hpp>
#include <string>
#include <fstream>
#include <streambuf>
```

Include dependency graph for speech_to_text.cpp:



Functions

- std::string load_jsgf (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 Function Documentation

7.8.1.1 std::string load_jsgf (const std::string *filename*)

Definition at line 20 of file speech_to_text.cpp.

7.8.1.2 int main (int *argc,* char ∗ *argv[]*)

Query the CMU Sphinx4 engine for keywords and sentences using a WAV file argv[1]: audio file argv[2]: audio source type argv[3]: language argv[4]: user argv[5]: words to search for - OPTIONAL argv[6]: sentences to search for - OPTIONAL argv[7]: grammar file (JSGF text file) - OPTIONAL

Definition at line 44 of file speech_to_text.cpp.

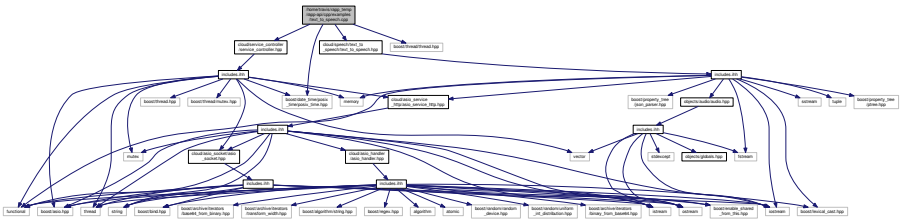
7.8.1.3 template<class T > std::ostream& operator<< (std::ostream & *os,* const std::vector< T > & *v*)

Definition at line 13 of file speech_to_text.cpp.

7.9 /home/travis/rapp_temp/rapp-api/cpp/examples/text_to_speech.cpp File Reference

```
#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>
```

Include dependency graph for text_to_speech.cpp:



Functions

- int main (int argc, char ∗argv[])

7.9.1 Function Documentation

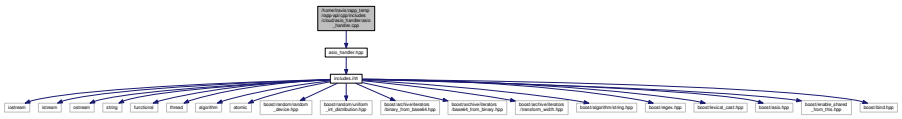
7.9.1.1 int main (int *argc*, char ∗ *argv[]*)

Definition at line 7 of file text_to_speech.cpp.

7.10 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.cpp File Reference

```
#include "asio_handler.hpp"
```

Include dependency graph for asio_handler.cpp:



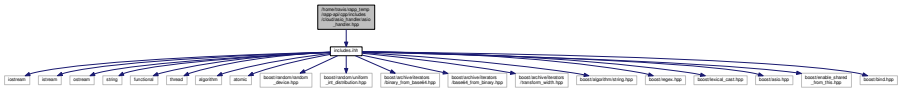
Namespaces

- rapp
- rapp::cloud

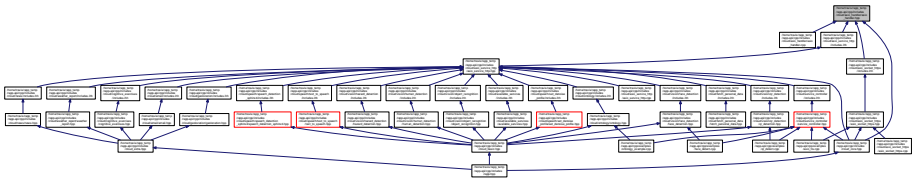
7.11 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for asio_handler.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

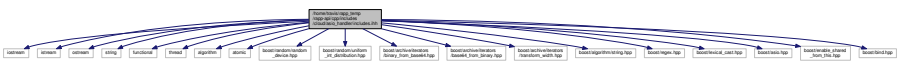
Namespaces

- rapp
- rapp::cloud

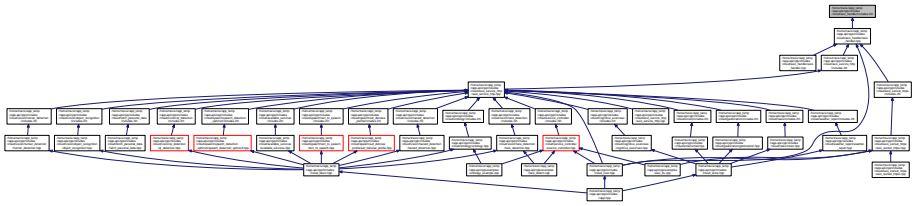
7.12 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/includes.ihh File Reference

```
#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:



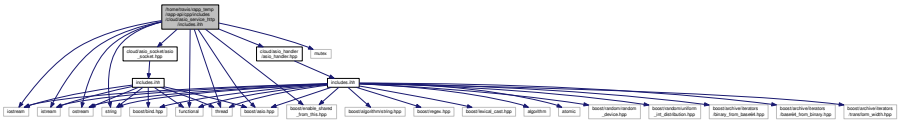
This graph shows which files directly or indirectly include this file:



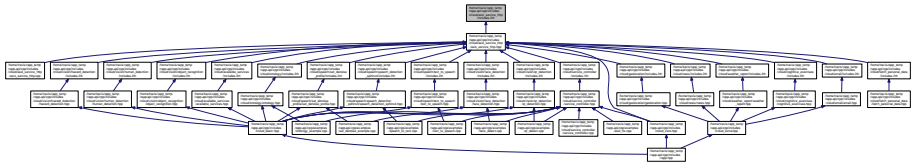
7.13 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/includes.ihh File Reference

```
#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:



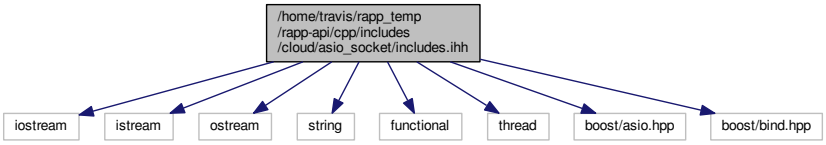
This graph shows which files directly or indirectly include this file:



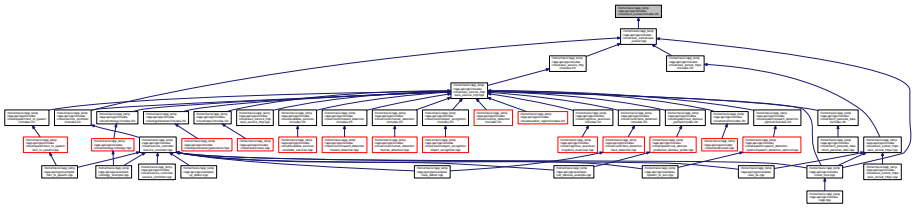
7.14 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/includes.ihh File Reference

```
#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:



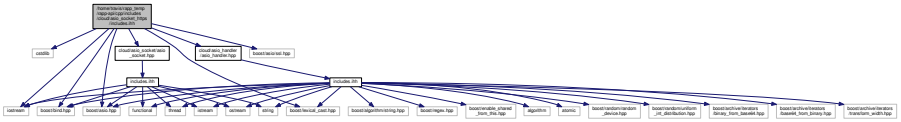
This graph shows which files directly or indirectly include this file:



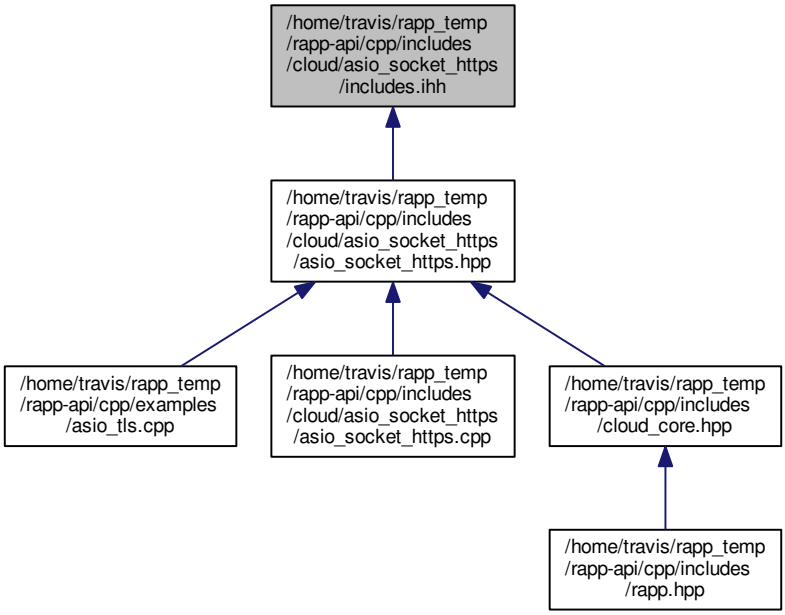
7.15 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/includes.ihh File Reference

```
#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:



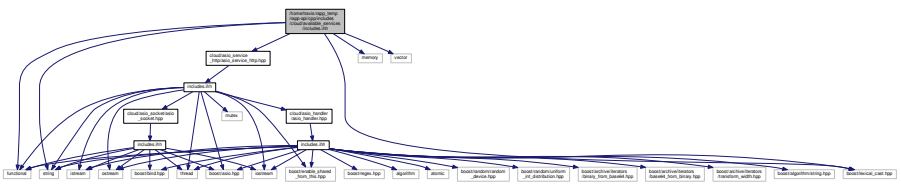
This graph shows which files directly or indirectly include this file:



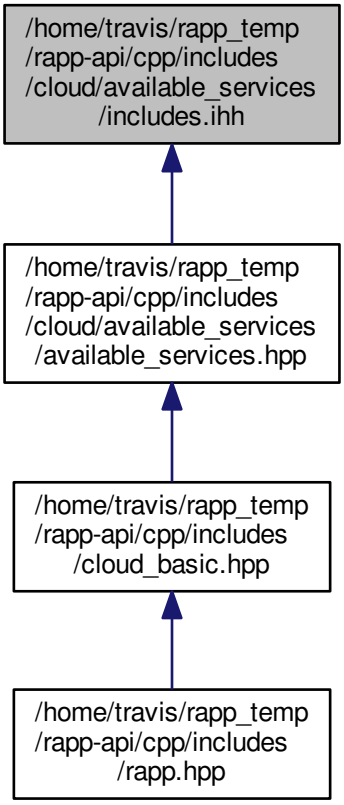
7.16 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/includes.ihh File Reference

```
#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:



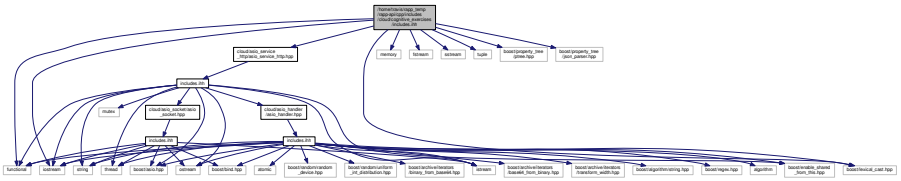
This graph shows which files directly or indirectly include this file:



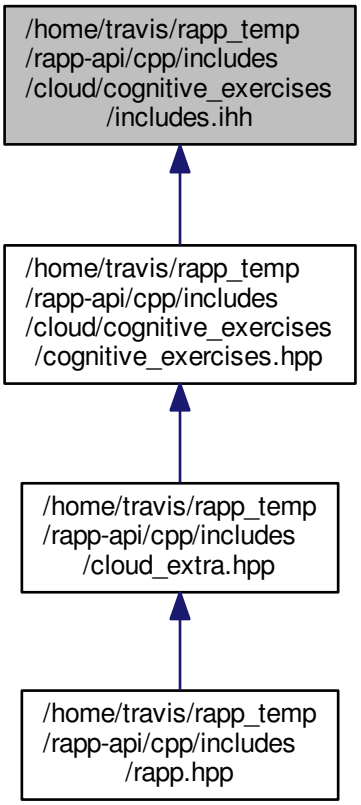
7.17 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/includes.ihh File Reference

```
#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:

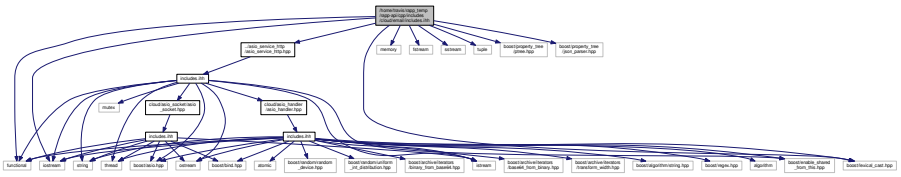


7.18 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/includes.ihh File Reference

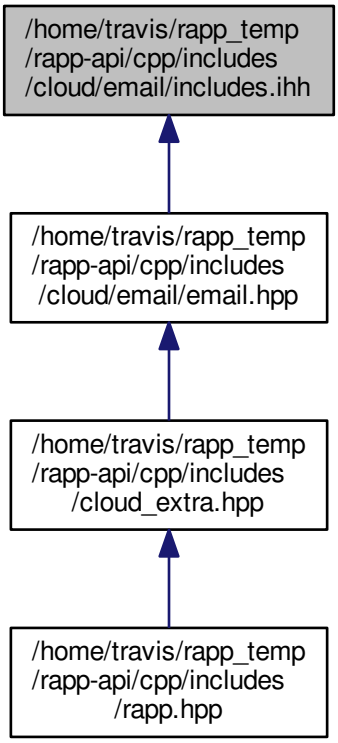
```
#include <functional>
```

```
#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:



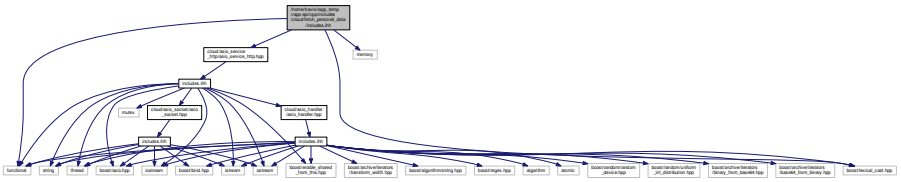
This graph shows which files directly or indirectly include this file:



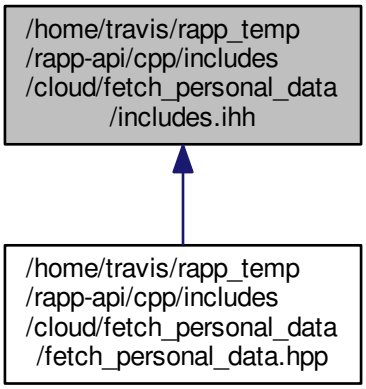
7.19 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>
```

Include dependency graph for includes.ihh:



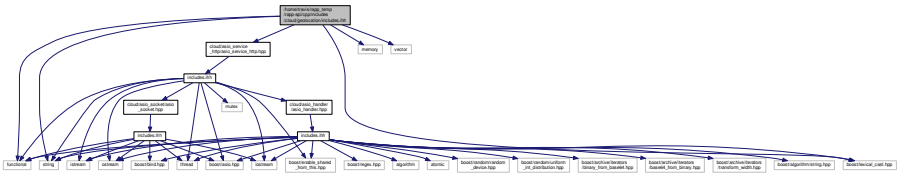
This graph shows which files directly or indirectly include this file:



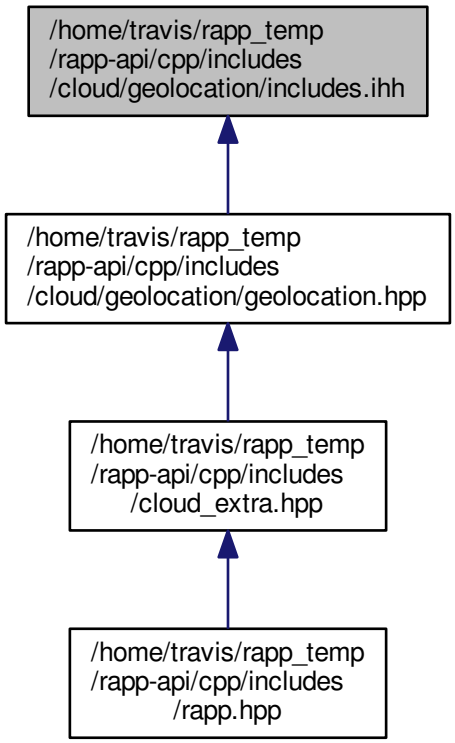
7.20 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/includes.ihh File Reference

```
#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:

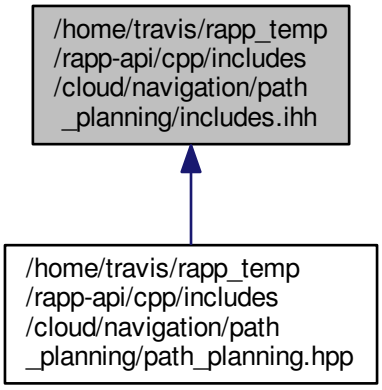


This graph shows which files directly or indirectly include this file:



7.21 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/includes.ihh File Reference

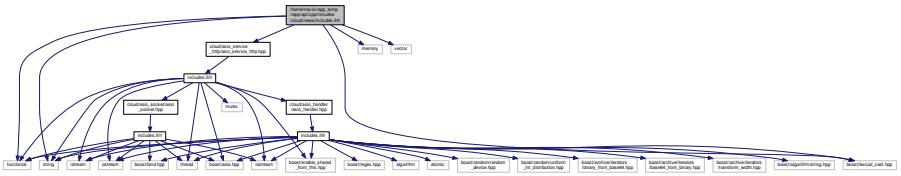
This graph shows which files directly or indirectly include this file:



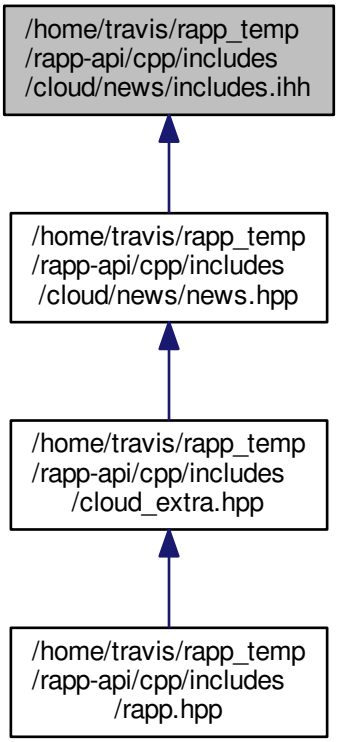
7.22 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/includes.ihh File Reference

```
#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:



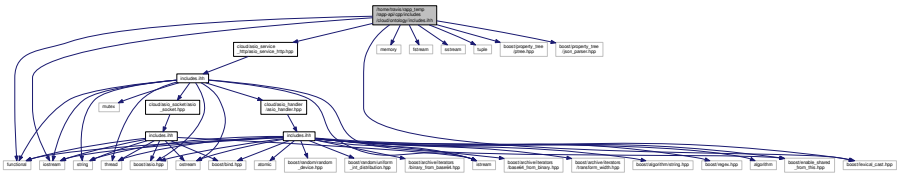
This graph shows which files directly or indirectly include this file:



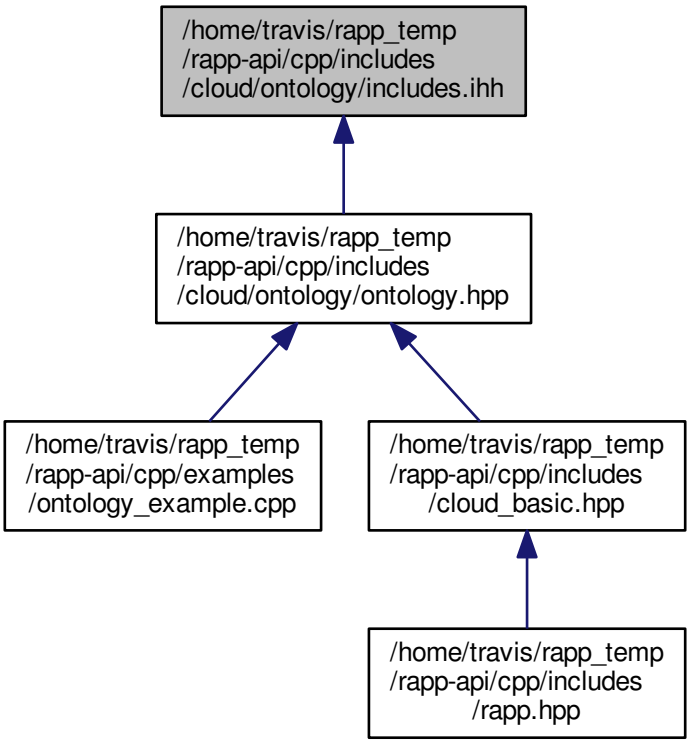
7.23 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/includes.ihh File Reference

```
#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:



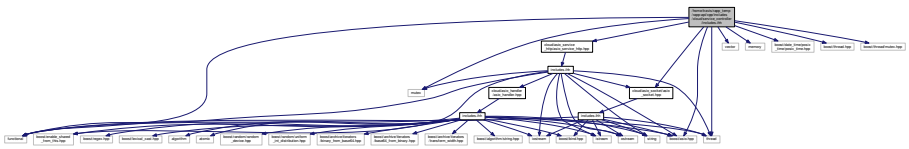
This graph shows which files directly or indirectly include this file:



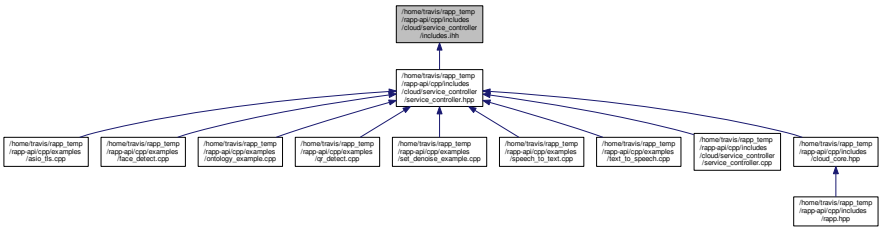
7.24 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/includes.ihh File Reference

```
#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:



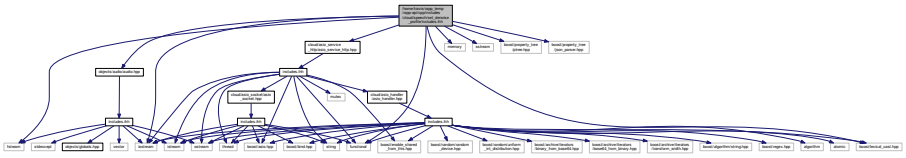
This graph shows which files directly or indirectly include this file:



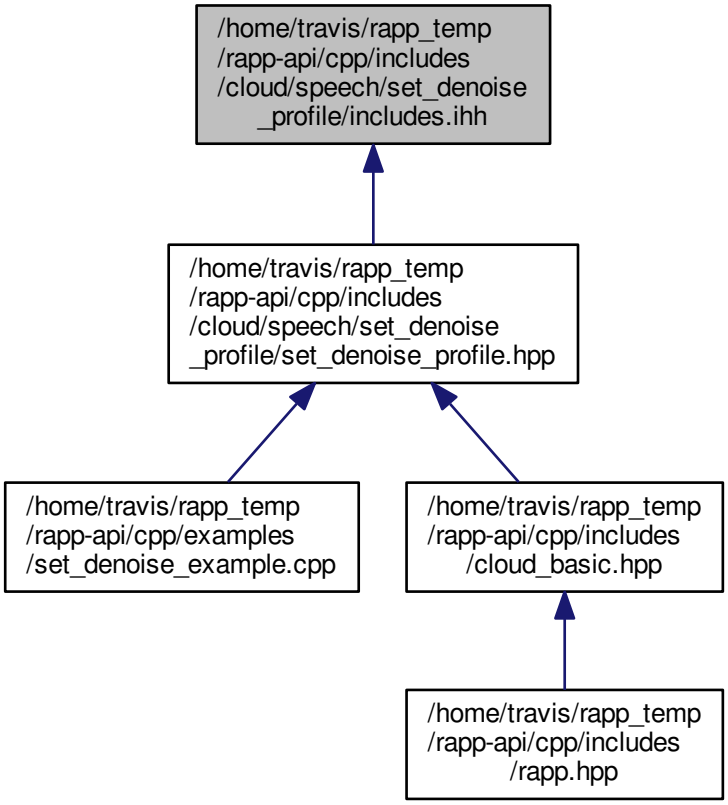
7.25 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/includes.ihh File Reference

```
#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:

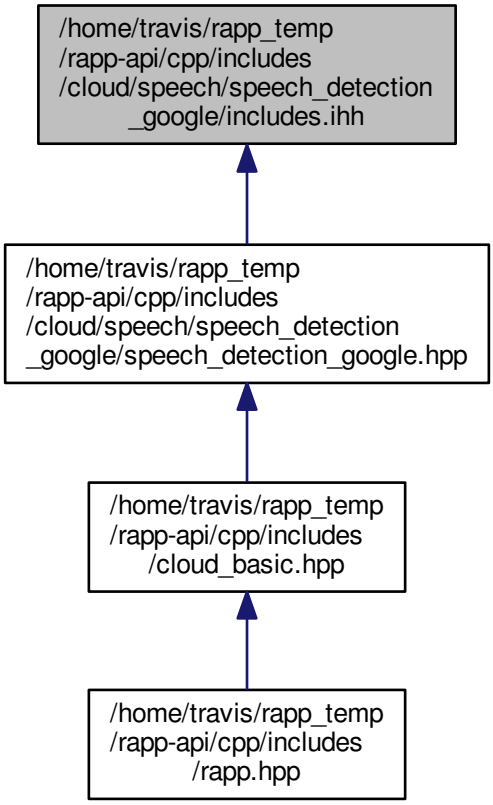


This graph shows which files directly or indirectly include this file:



7.26 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/includes.ihh File Reference

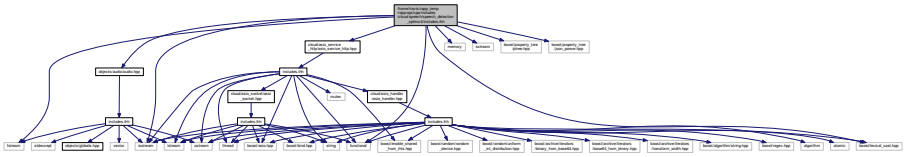
This graph shows which files directly or indirectly include this file:



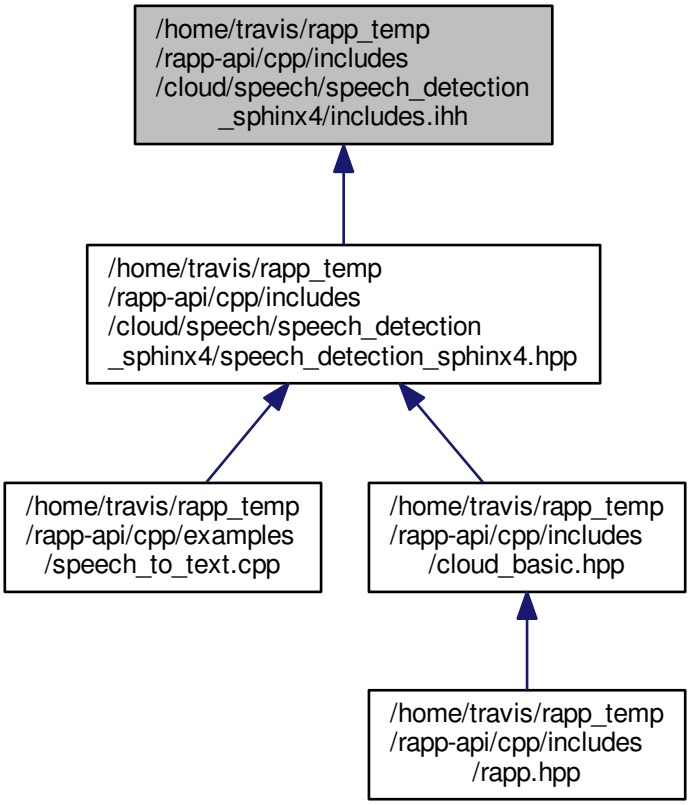
7.27 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/includes.ihh File Reference

```
#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:

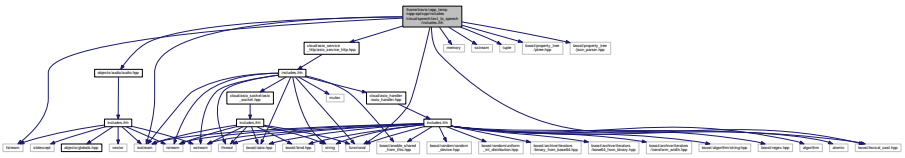


7.28 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/includes.ihh File Reference

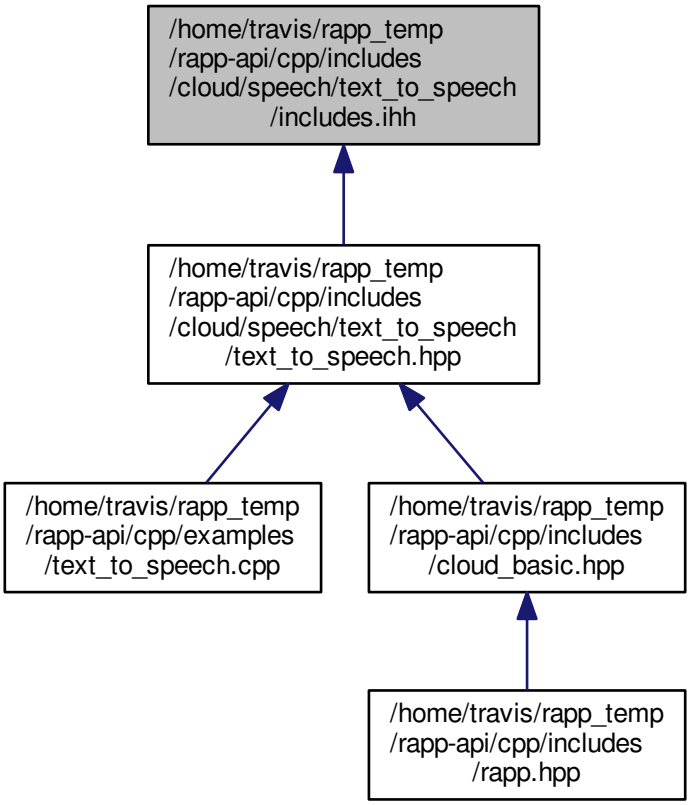
```
#include <functional>
```

```
#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:

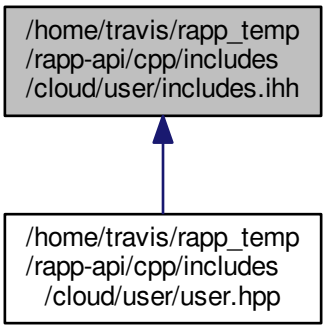


This graph shows which files directly or indirectly include this file:



7.29 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/includes.ihh File Reference

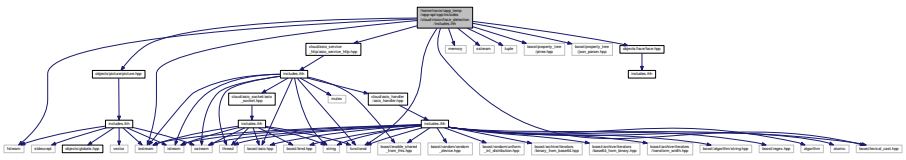
This graph shows which files directly or indirectly include this file:



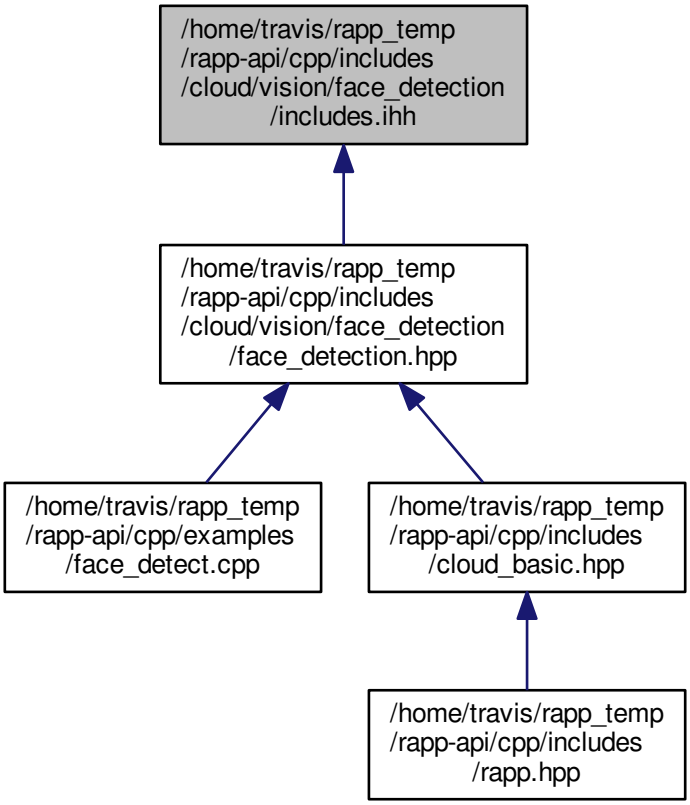
7.30 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/includes.ihh File Reference

```
#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:



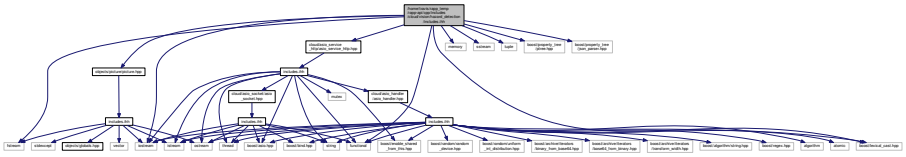
This graph shows which files directly or indirectly include this file:



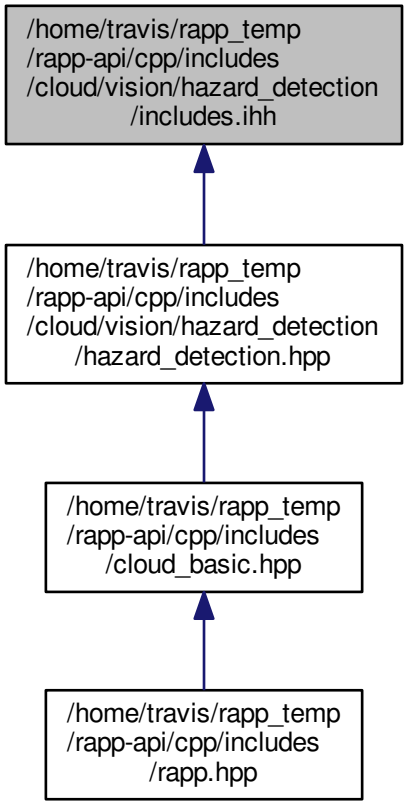
7.31 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/includes.ihh File Reference

```
#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 dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:

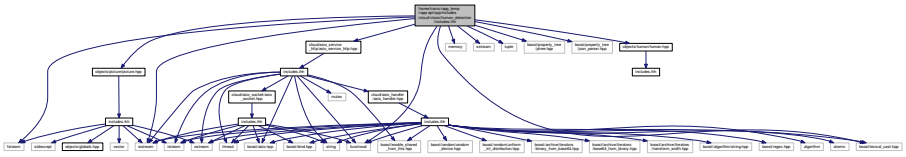


7.32 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/includes.ihh File Reference

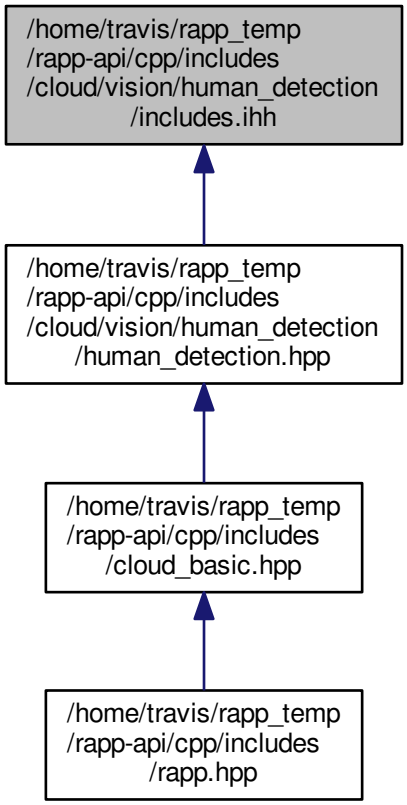
```
#include <functional>
```

```
#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 "objects/human/human.hpp"
```

Include dependency graph for includes.ihh:



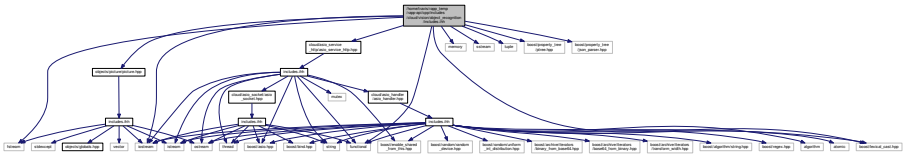
This graph shows which files directly or indirectly include this file:



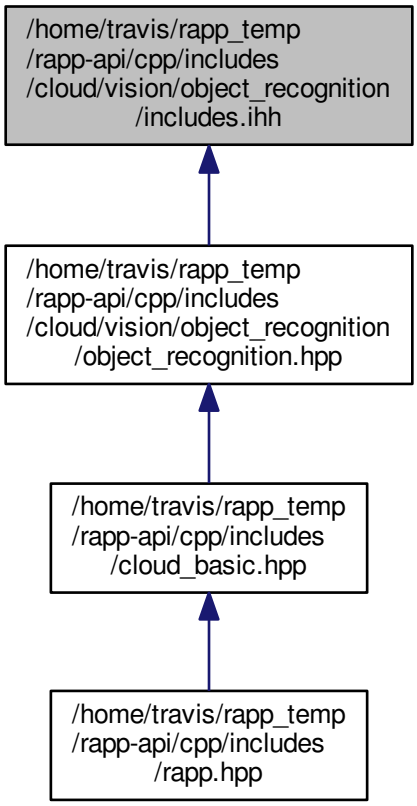
7.33 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/includes.ihh File Reference

```
#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:

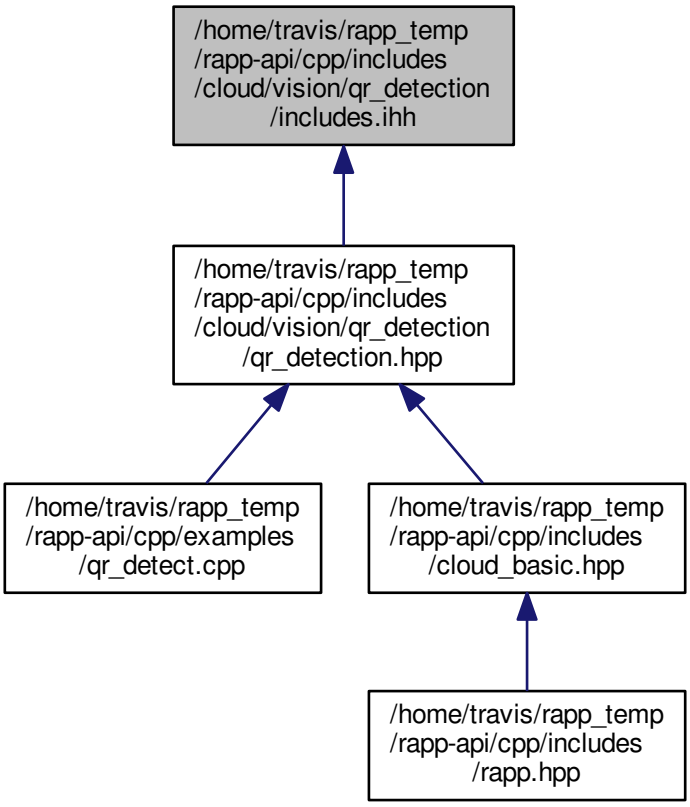


7.34 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/includes.ihh File Reference

```
#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:

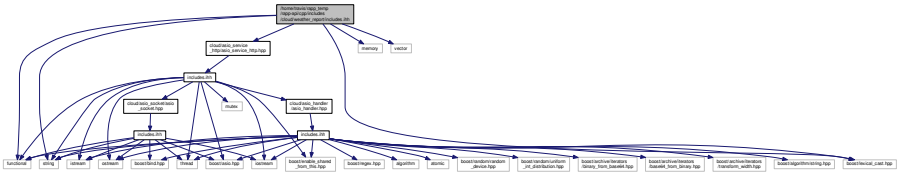
This graph shows which files directly or indirectly include this file:



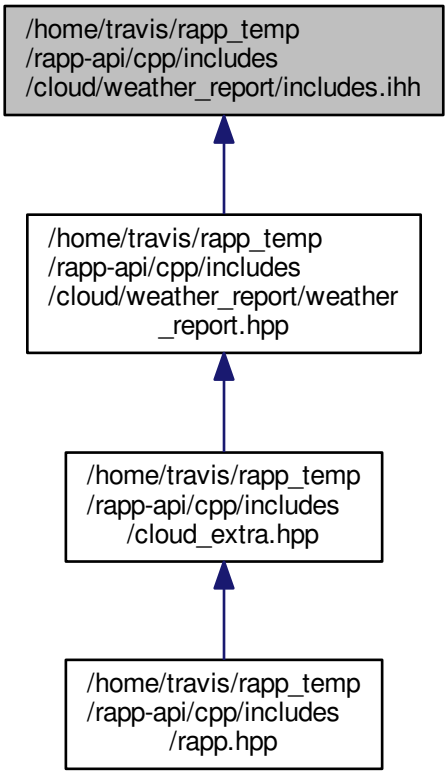
7.35 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/includes.ihh File Reference

```
#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:



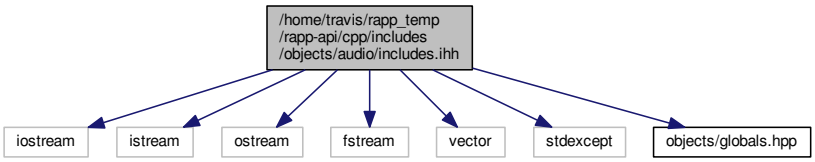
This graph shows which files directly or indirectly include this file:



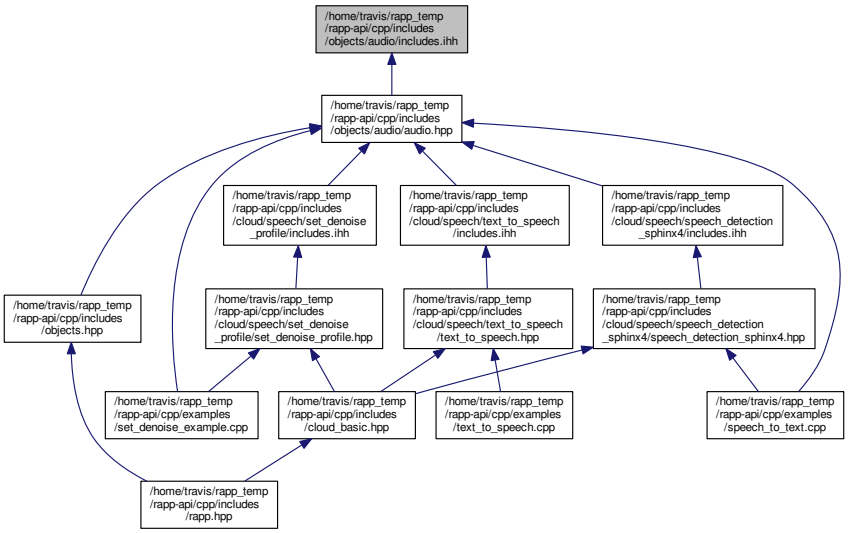
7.36 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <vector>
#include <stdexcept>
#include "objects/globals.hpp"
```

Include dependency graph for includes.ihh:

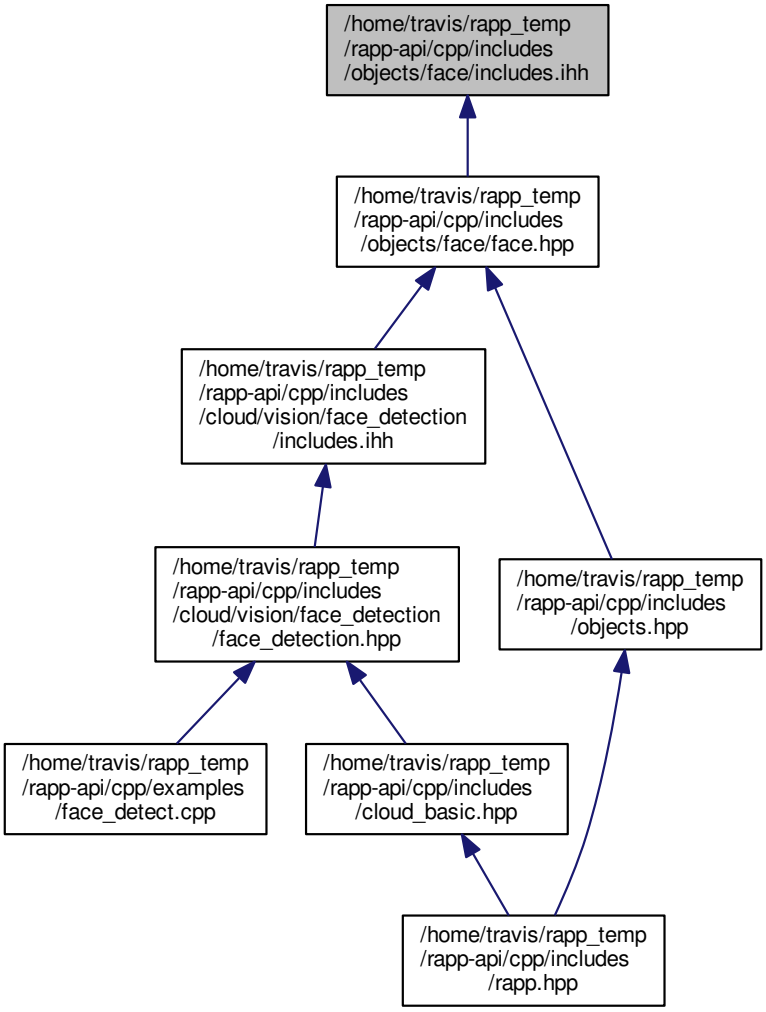


This graph shows which files directly or indirectly include this file:



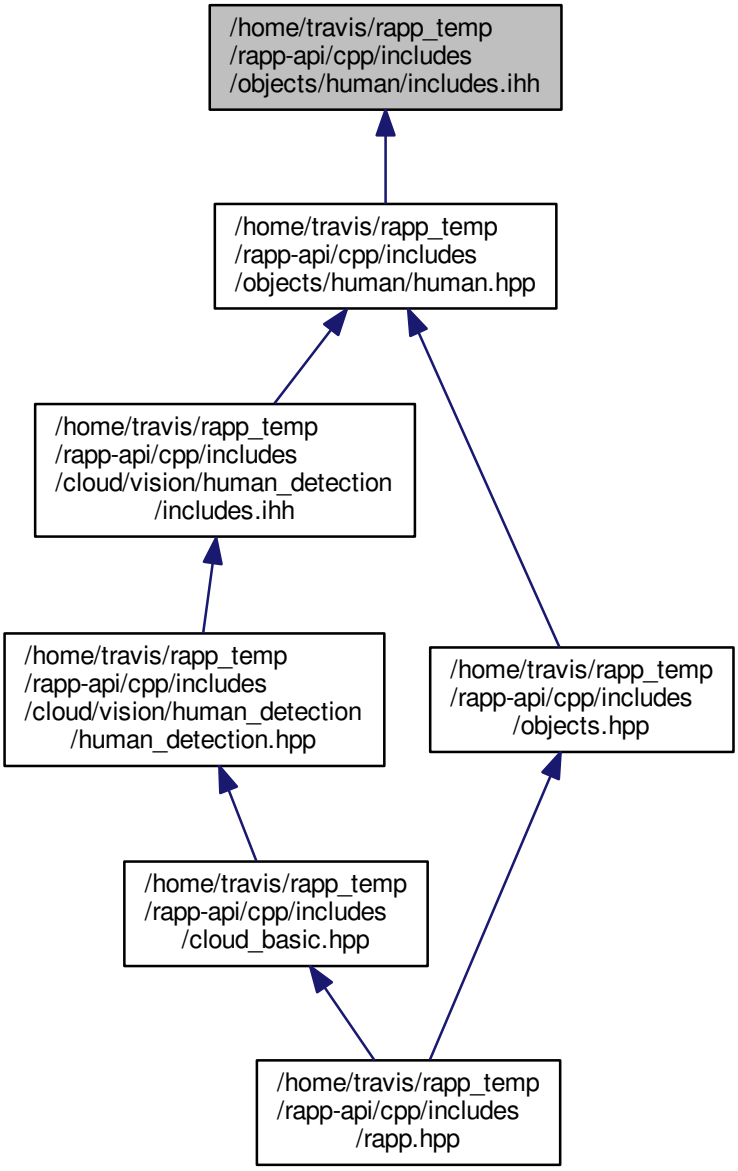
7.37 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/includes.ihh File Reference

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

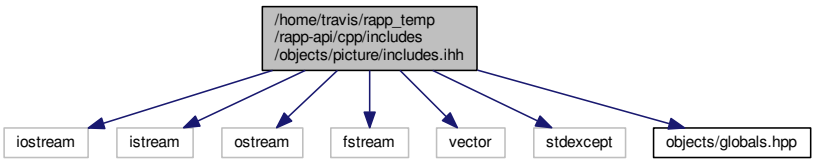
This graph shows which files directly or indirectly include this file:



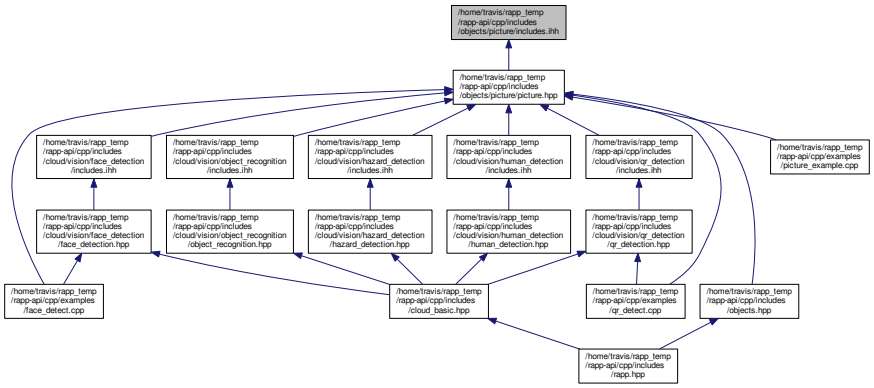
7.39 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <vector>
#include <stdexcept>
#include "objects/globals.hpp"
```

Include dependency graph for includes.ihh:



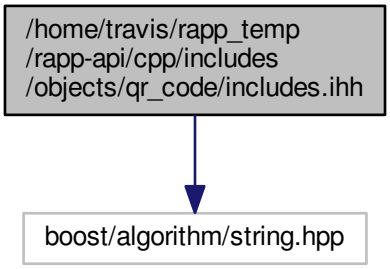
This graph shows which files directly or indirectly include this file:



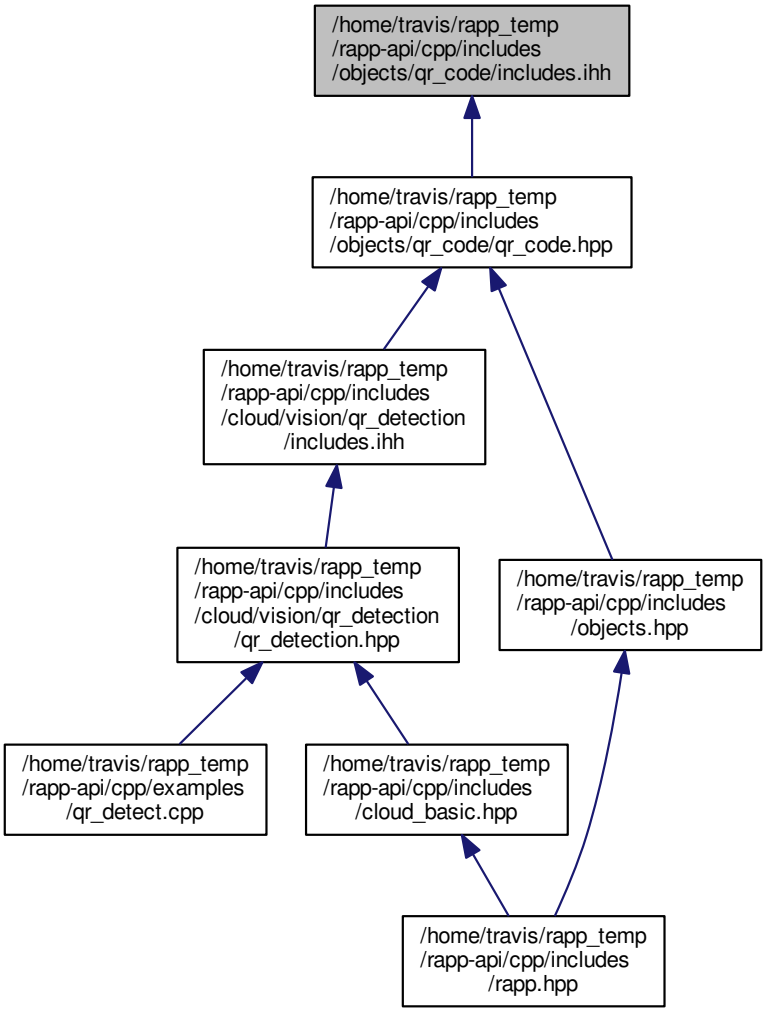
7.40 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/includes.ihh File Reference

```
#include <boost/algorithm/string.hpp>
```

Include dependency graph for includes.ihh:



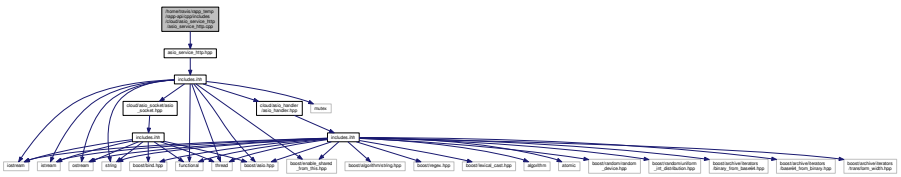
This graph shows which files directly or indirectly include this file:



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:



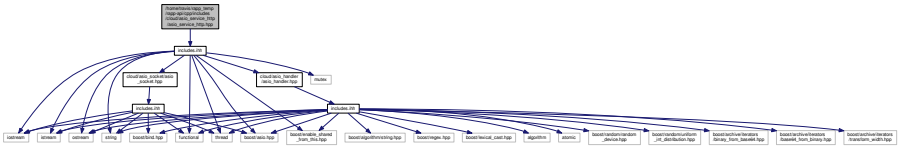
Namespaces

- rapp
- rapp::cloud

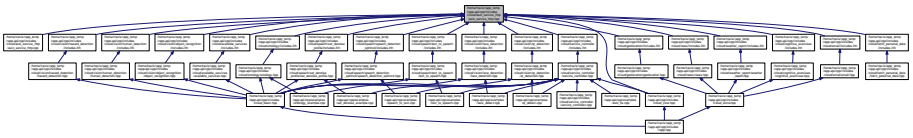
7.42 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for asio_service_http.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class rapp::cloud::asio_service_http

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

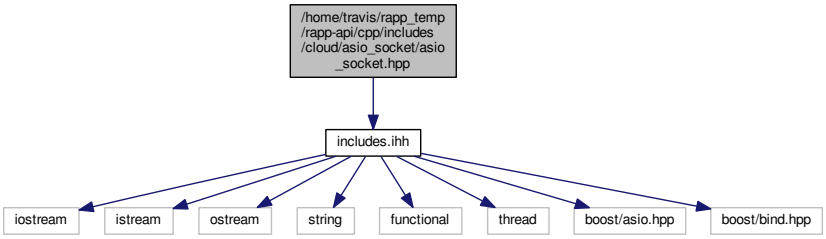
Namespaces

- rapp
- rapp::cloud

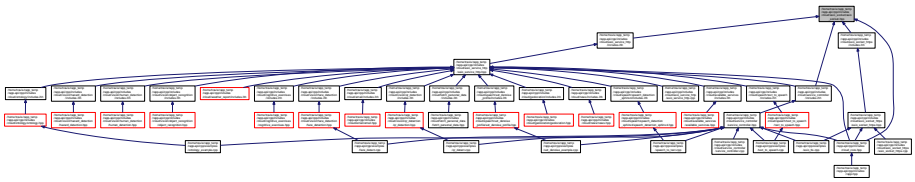
7.43 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/asio_socket.hpp File Reference

```
#include "includes.ihh"
```

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 -

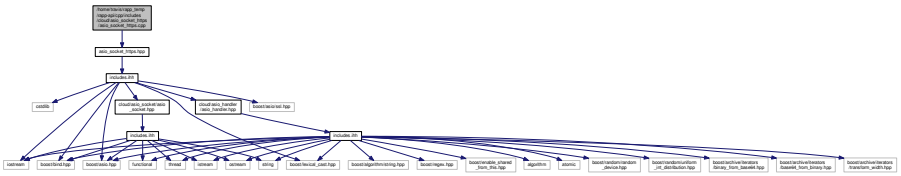
- constexpr char rapp::cloud::port [] = "9001"

  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"
```

Include dependency graph for asio_socket_https.cpp:



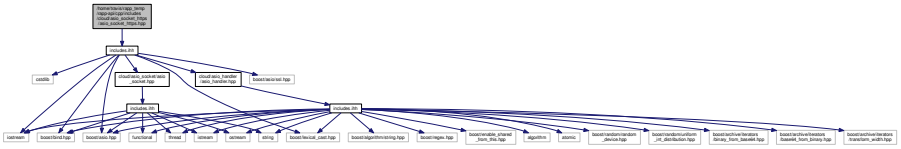
Namespaces

- rapp
- rapp::cloud

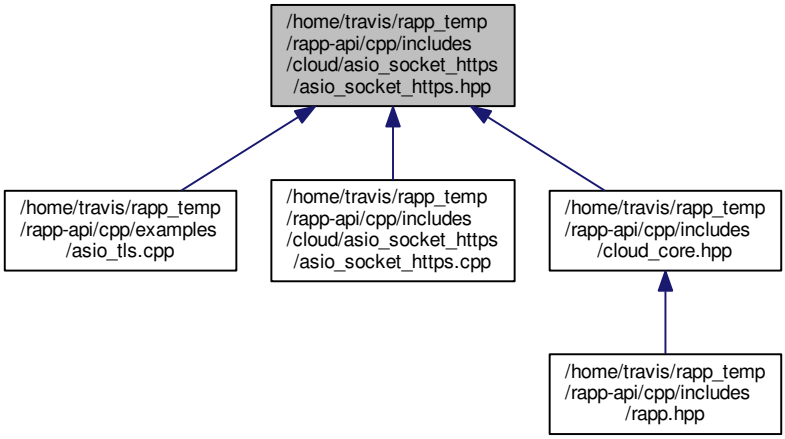
7.45 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for asio_socket_https.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class rapp::cloud::asio_socket_https

wrapper for SSL/TLS secure HTTP communication

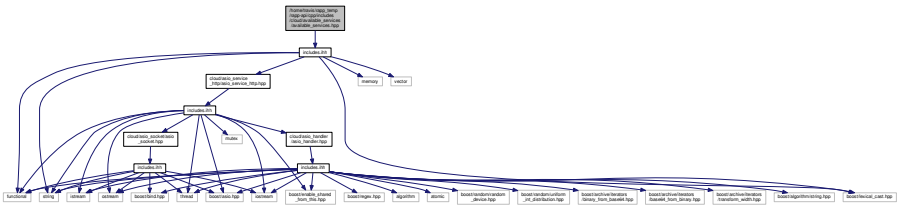
Namespaces

- rapp
- rapp::cloud

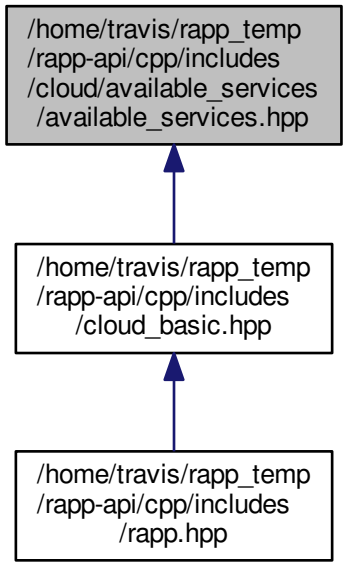
7.46 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/available_services.hpp File Reference

```
#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

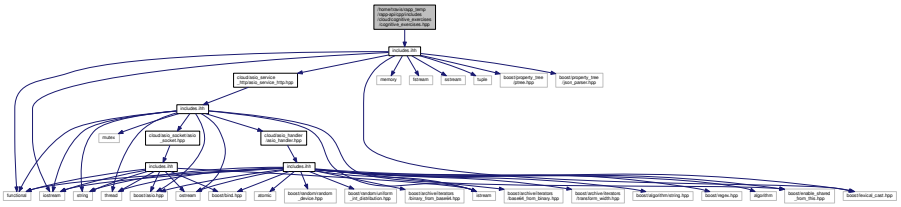
Namespaces

- rapp
- rapp::cloud

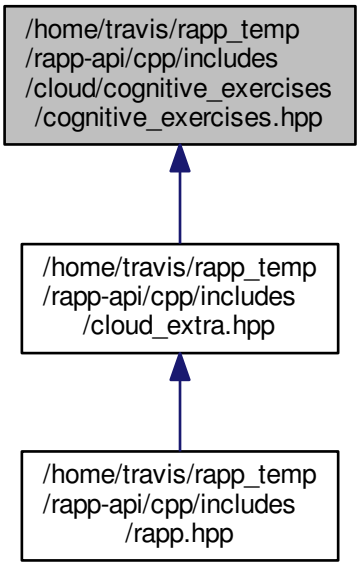
7.47 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for cognitive_exercises.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class rapp::cloud::cognitive_get_history
- class rapp::cloud::cognitive_get_scores
- class rapp::cloud::cognitive_record_performance
- class rapp::cloud::cognitive_test_selector

  chose a congitive game to play

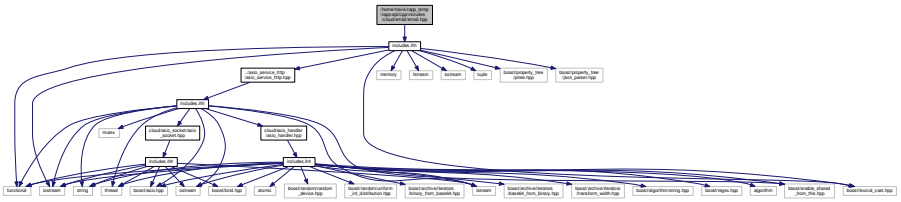
Namespaces

- rapp
- rapp::cloud

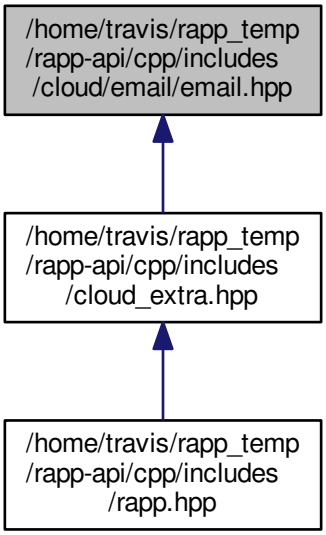
7.48 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp File Reference

```
#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

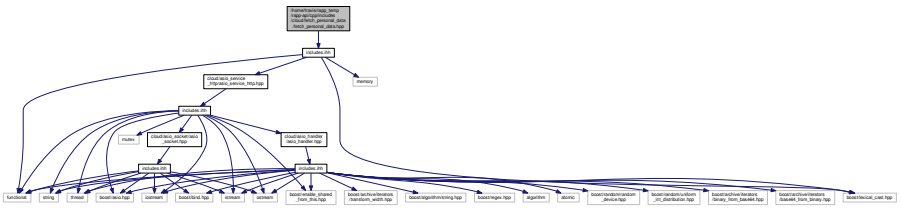
  send an email

Namespaces

- rapp
- rapp::cloud

7.49 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/fetch_-personal_data.hpp File Reference

```
#include "includes.ihh"
```
Include dependency graph for fetch_personal_data.hpp:



Classes

- class rapp::cloud::fetch_personal_data

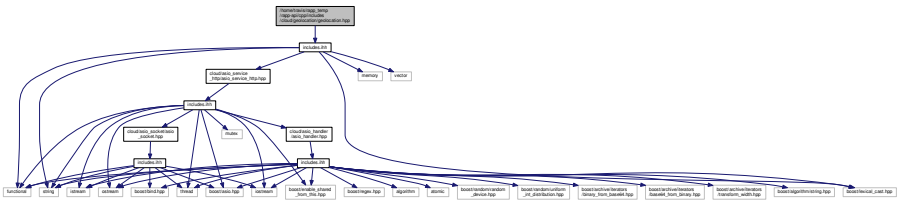
  Get all personal data for a specific user.

Namespaces

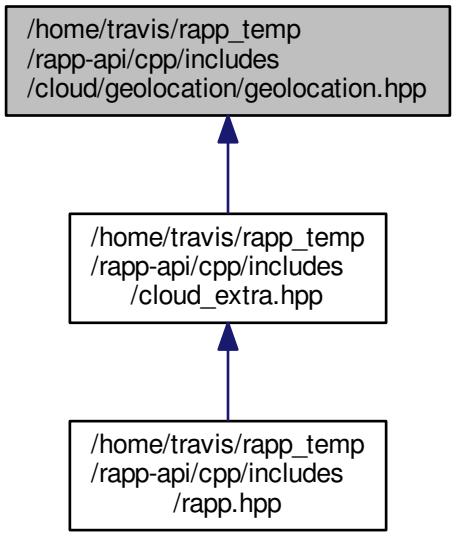
- rapp
- rapp::cloud

7.50 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/geolocation.hpp File Reference

```
#include "includes.ihh"
```
Include dependency graph for geolocation.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class rapp::cloud::geolocation

  geolocation service

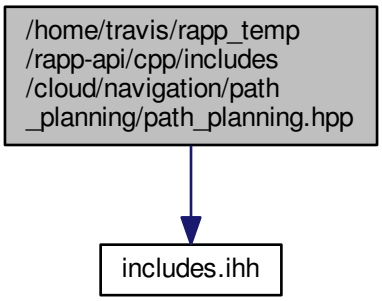
Namespaces

- 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

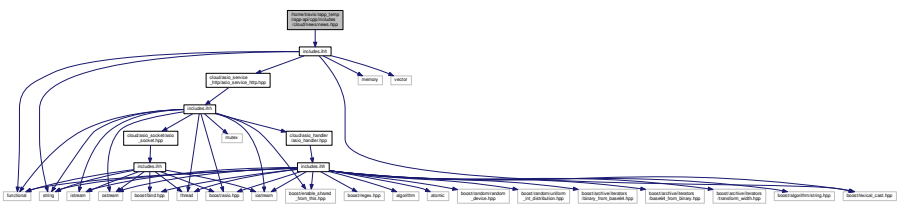
Namespaces

- rapp
- rapp::cloud

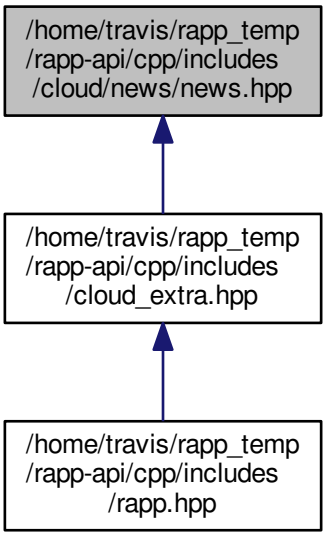
7.52 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/news.hpp File Reference

```
#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

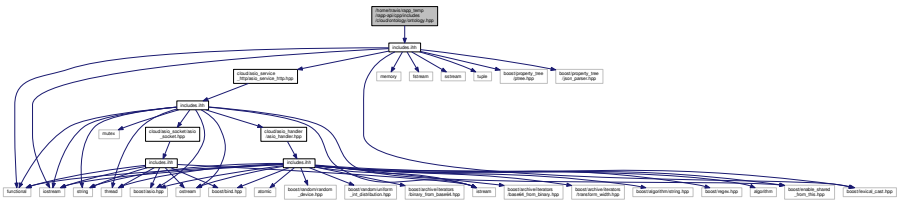
Namespaces

- rapp
- rapp::cloud

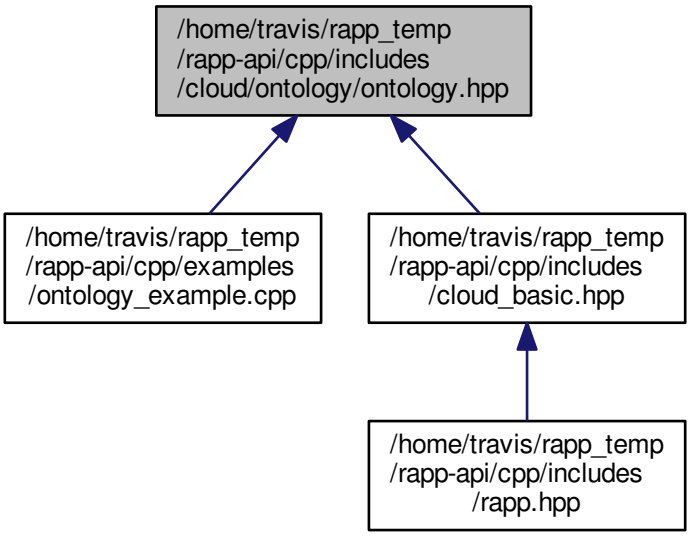
7.53 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp File Reference

```
#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

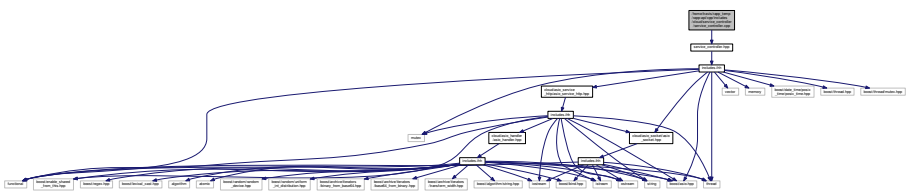
Namespaces

- 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:



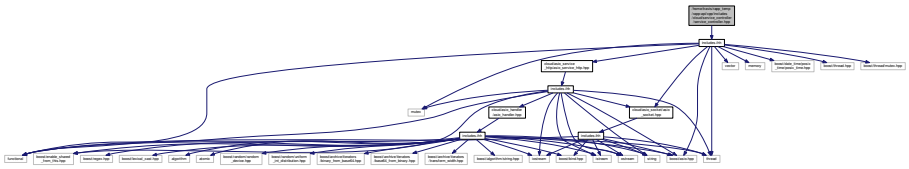
Namespaces

- rapp
- rapp::cloud

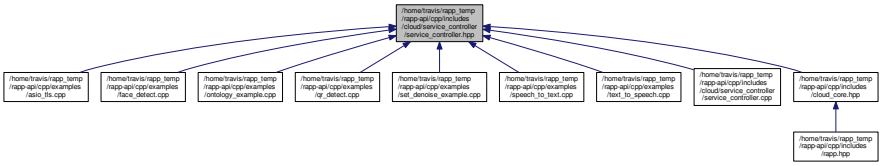
7.55 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/service_controller.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for service_controller.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class rapp::cloud::service_controller

  Main class that controllers RAPP Services.

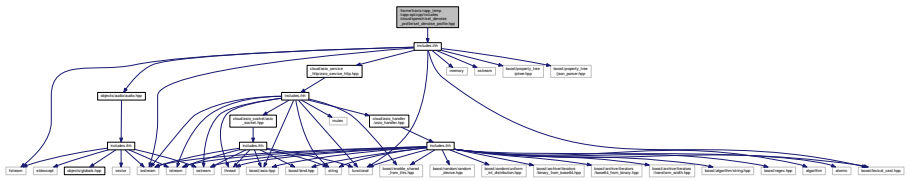
Namespaces

- rapp
- rapp::cloud

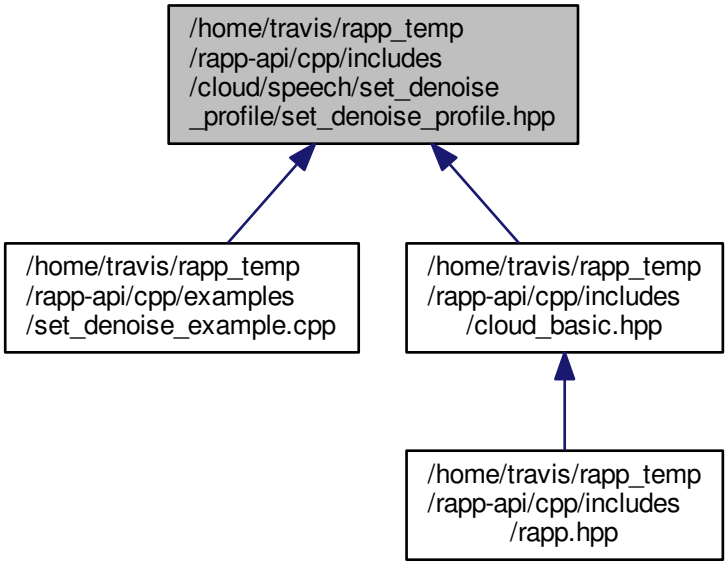
7.56 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/set_denoise_profile.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for set_denoise_profile.hpp:



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

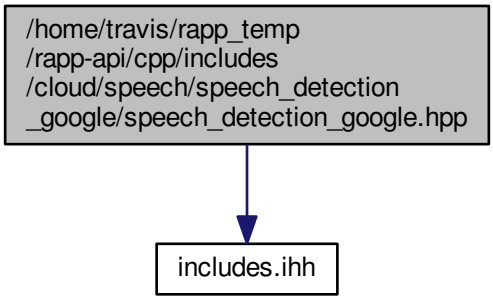
Namespaces

- rapp
- rapp::cloud

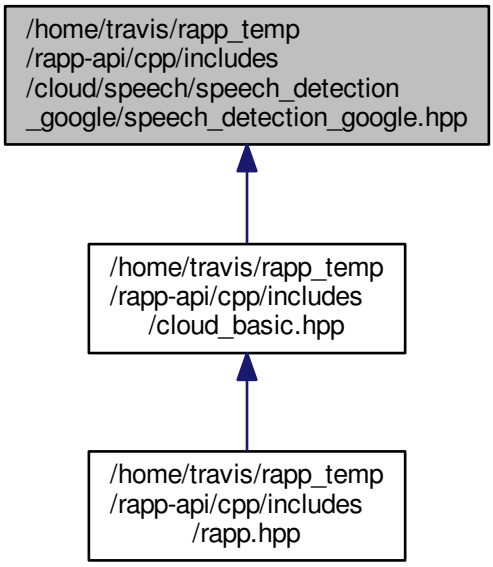
7.57 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_-google/speech_detection_google.hpp File Reference

```
#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

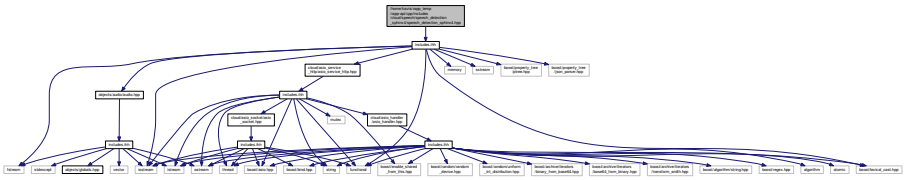
- rapp

- rapp::cloud

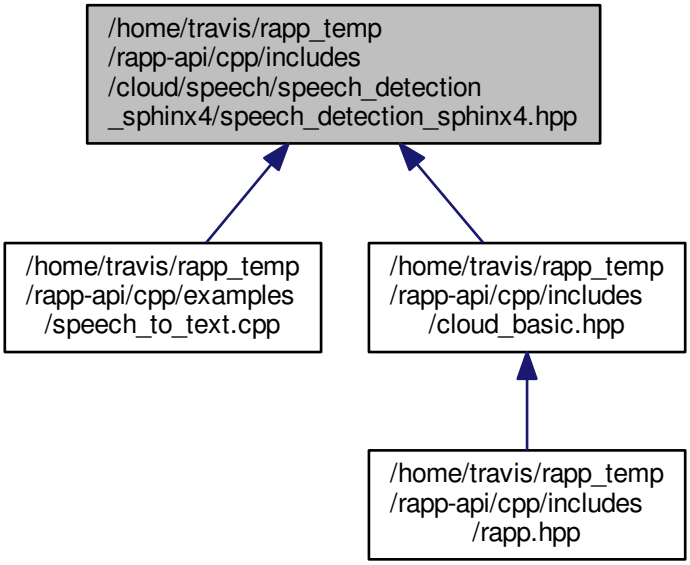
7.58 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/speech_detection_sphinx4.hpp File Reference

```
#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

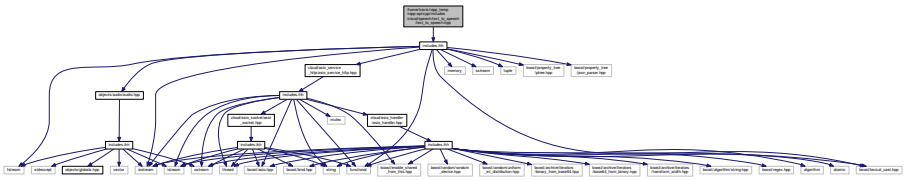
Namespaces

- rapp
- rapp::cloud

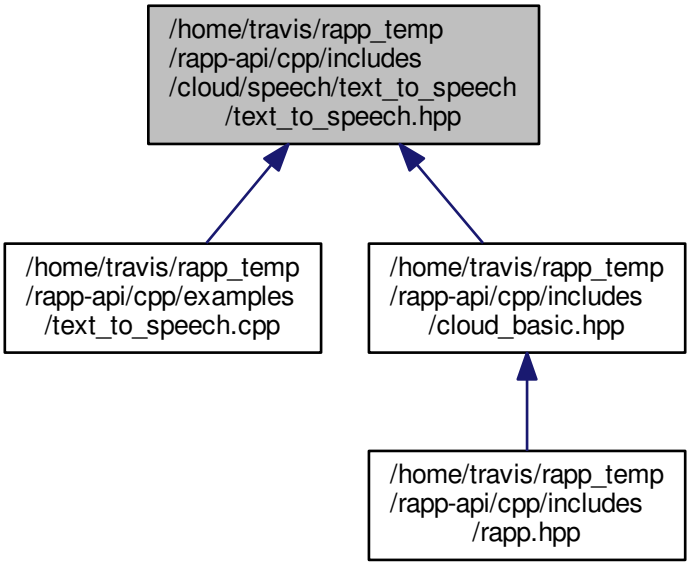
7.59 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/text_to_speech.hpp File Reference

```
#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

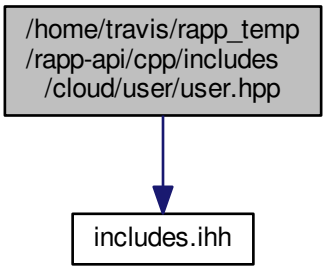
Namespaces

- rapp
- rapp::cloud

7.60 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/user.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for user.hpp:



Classes

- class rapp::cloud::login_user

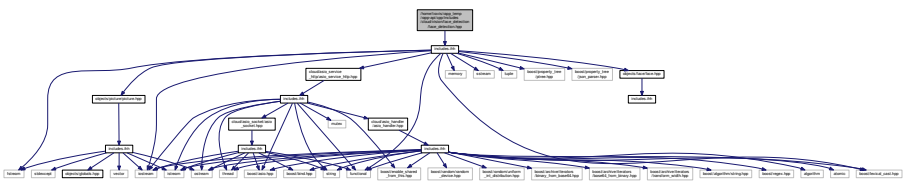
Namespaces

- rapp
- rapp::cloud

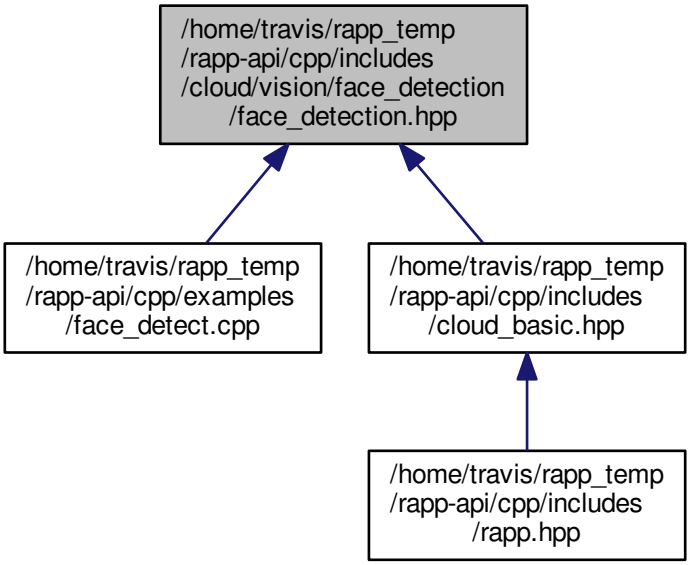
7.61 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/face_detection.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for face_detection.hpp:



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.

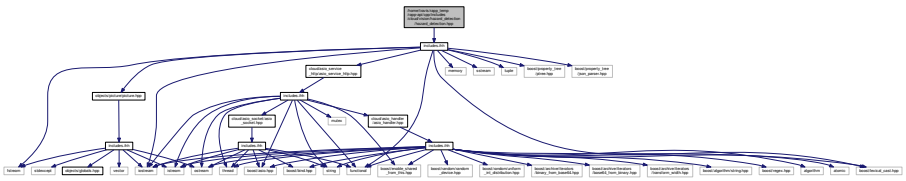
Namespaces

- rapp
- rapp::cloud

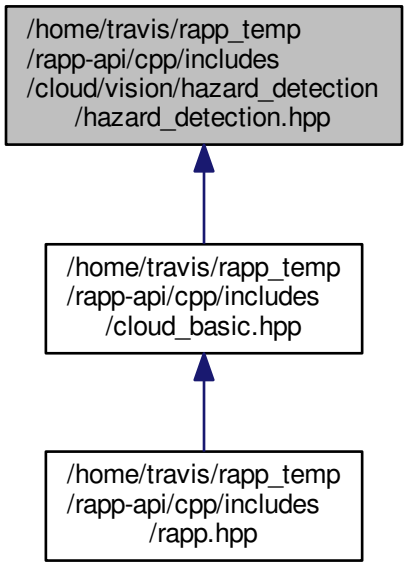
7.62 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp File Reference

```
#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

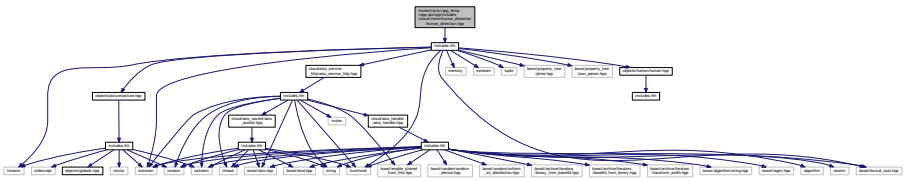
Namespaces

- rapp
- rapp::cloud

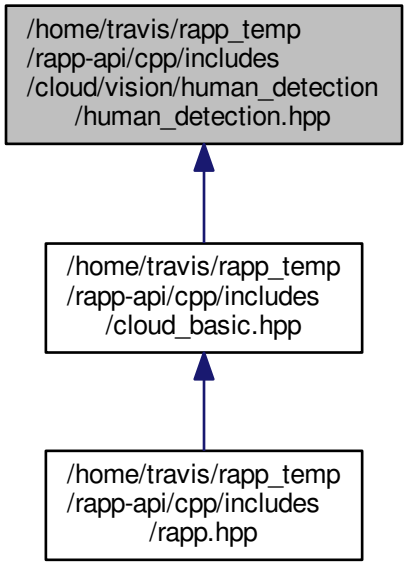
7.63 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/human_detection.hpp File Reference

```
#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

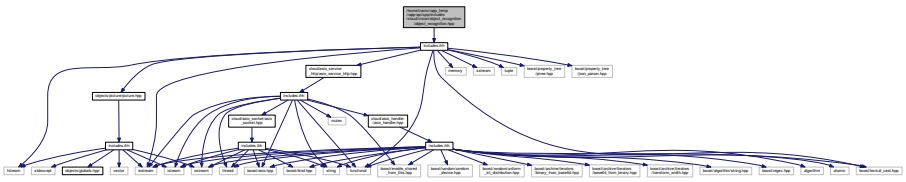
Namespaces

- rapp
- rapp::cloud

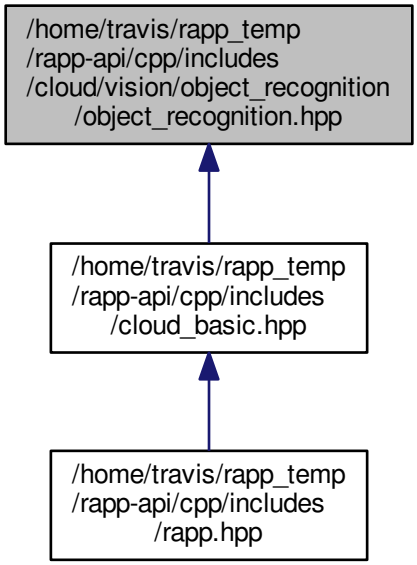
7.64 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/object-_recognition.hpp File Reference

```
#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::object_recognition

  recognize object from an image

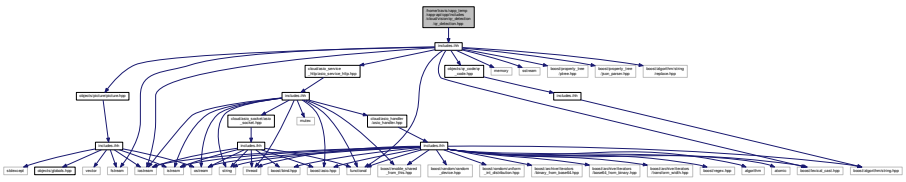
Namespaces

- rapp
- rapp::cloud

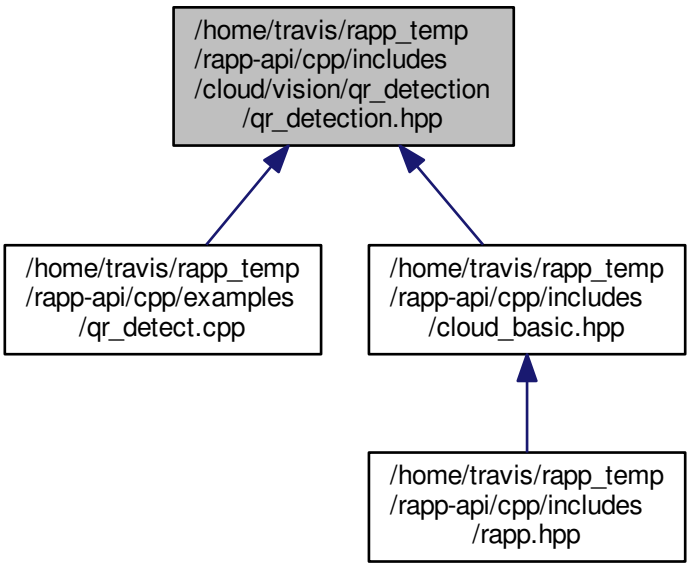
7.65 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/qr_detection.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for qr_detection.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.

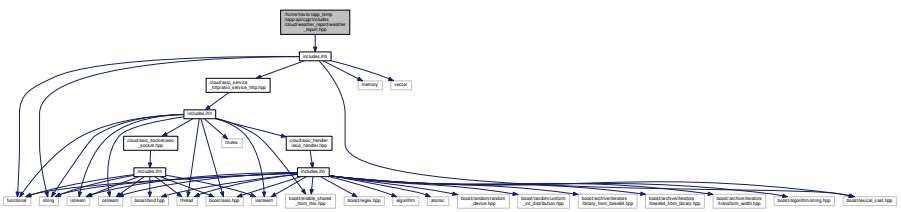
Namespaces

- rapp
- rapp::cloud

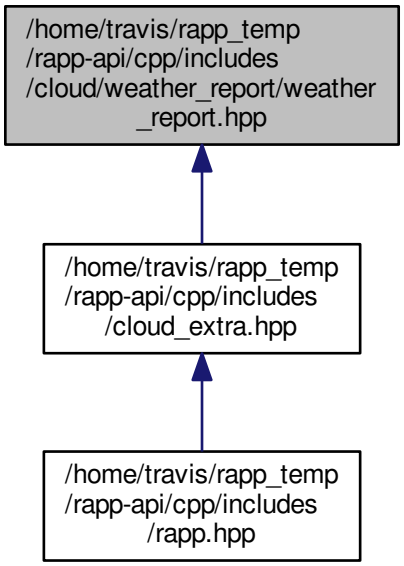
7.66 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp File Reference

```
#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

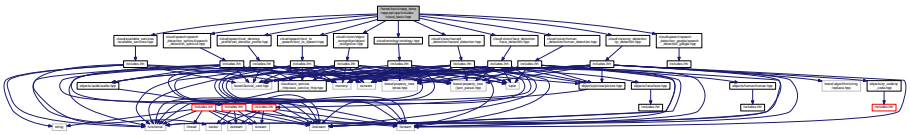
Namespaces

- rapp
- rapp::cloud

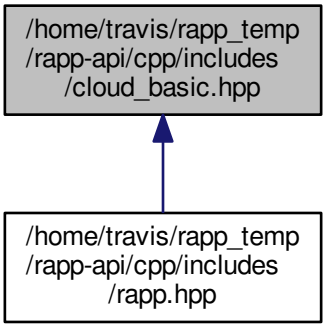
7.67 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_basic.hpp File Reference

```
#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:



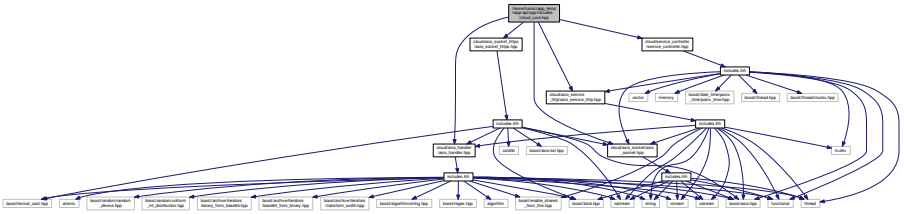
This graph shows which files directly or indirectly include this file:



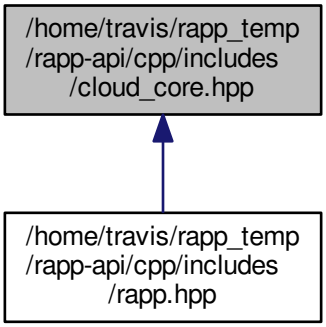
7.68 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_core.hpp File Reference

```
#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:



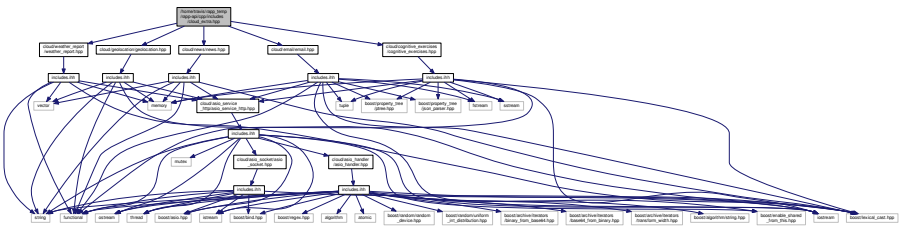
This graph shows which files directly or indirectly include this file:



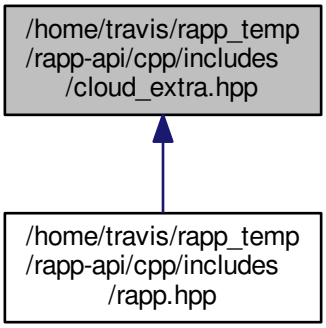
7.69 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_extra.hpp File Reference

```
#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:



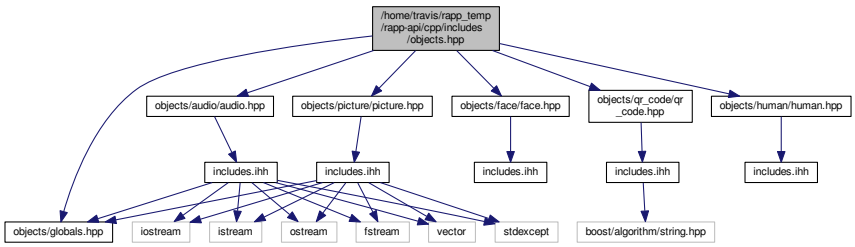
This graph shows which files directly or indirectly include this file:



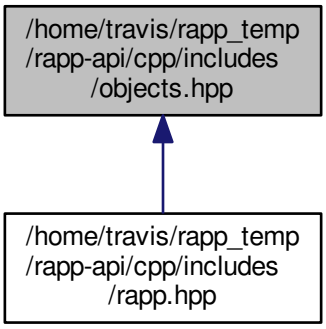
7.70 /home/travis/rapp_temp/rapp-api/cpp/includes/objects.hpp File Reference

```
#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:



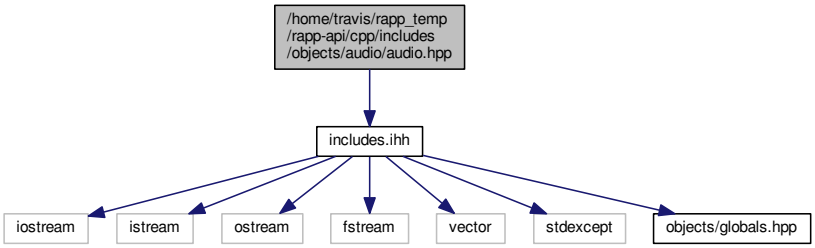
This graph shows which files directly or indirectly include this file:



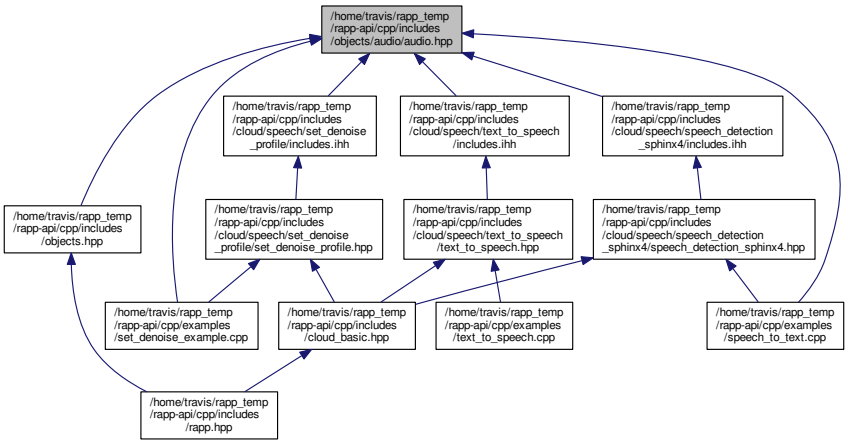
7.71 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp File Reference

```
#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.

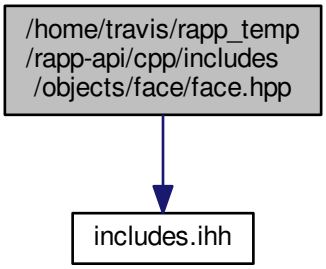
Namespaces

- rapp
- rapp::object

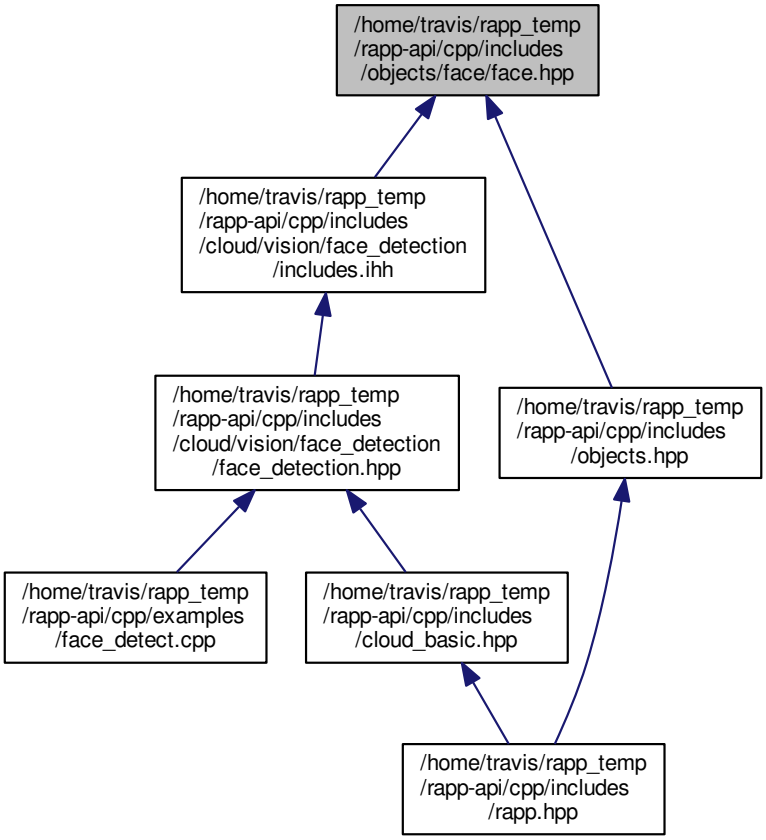
7.72 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/face.hpp File Reference

```
#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

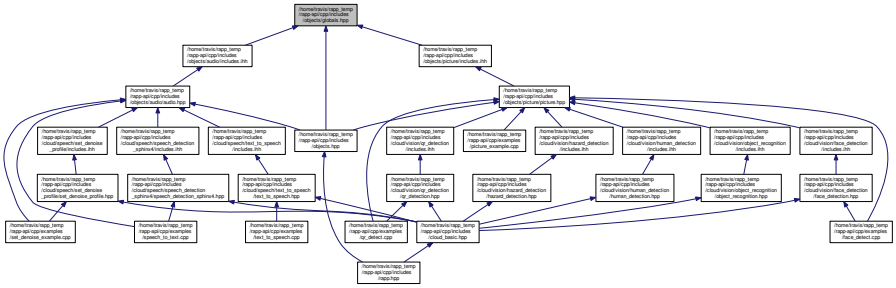
describes a face coordinate (cartesian)

Namespaces

- rapp
- rapp::object

7.73 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/globals.hpp File Reference

This graph shows which files directly or indirectly include this file:



Namespaces

- rapp
- rapp::types

Common global types.

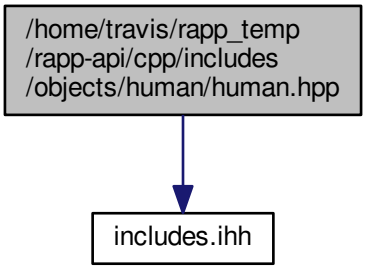
Typedefs

- typedef char rapp::types::byte

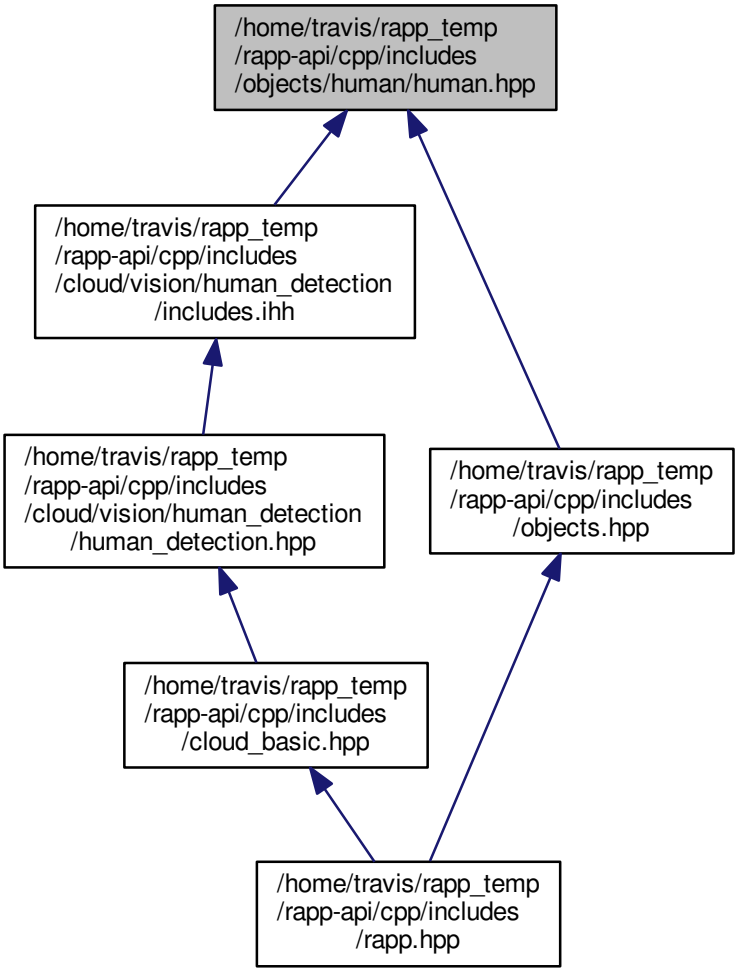
7.74 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/human.hpp File Reference

```
#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

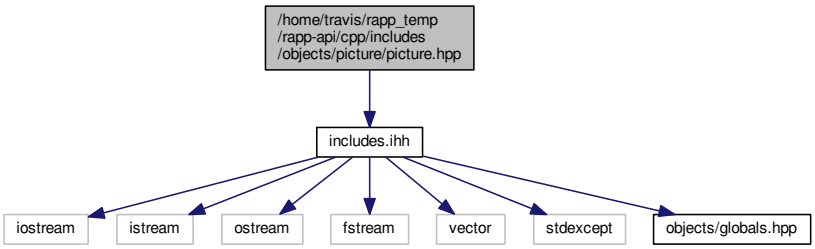
Namespaces

- rapp
- rapp::object

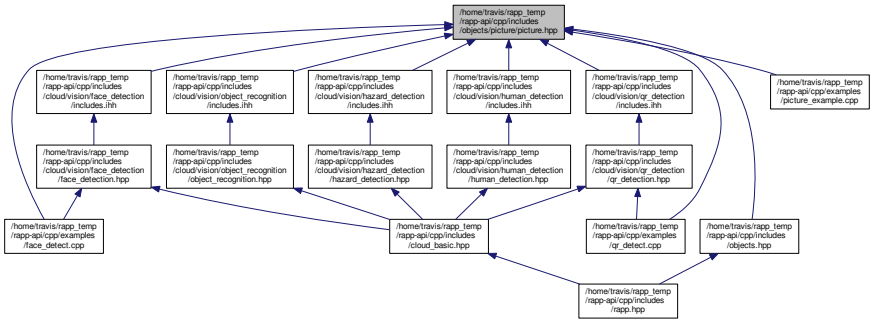
7.75 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/picture.hpp File Reference

```
#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

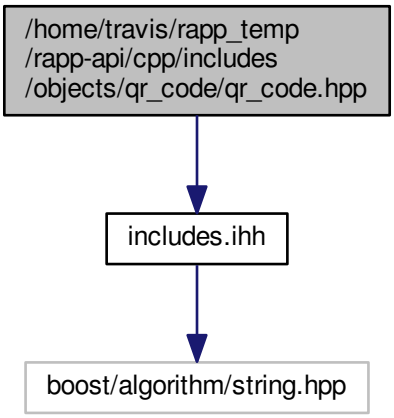
Namespaces

- rapp
- rapp::object

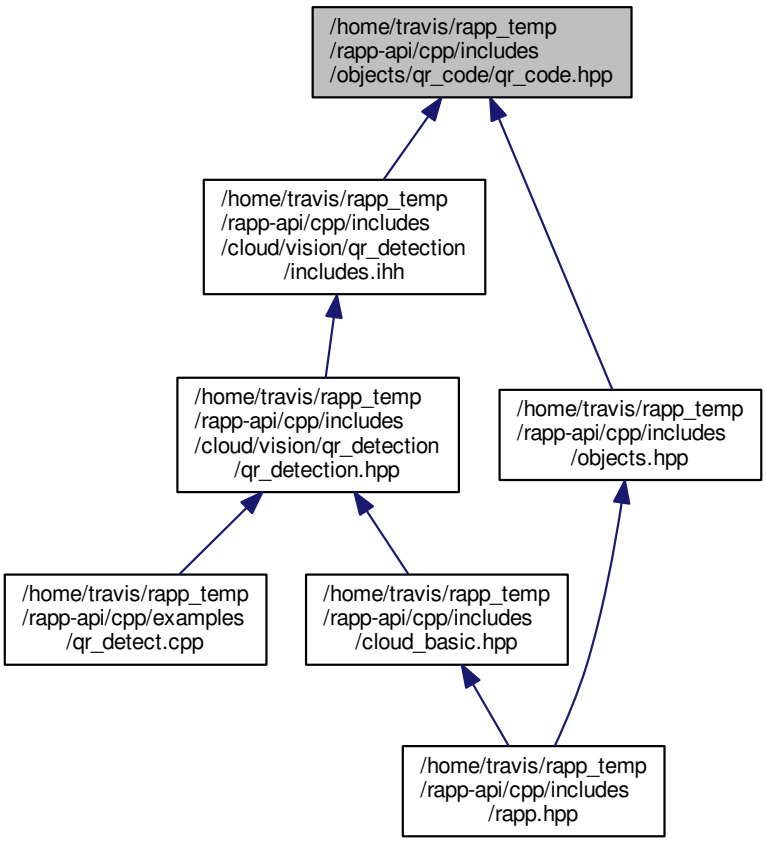
7.76 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr_code.hpp File Reference

```
#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

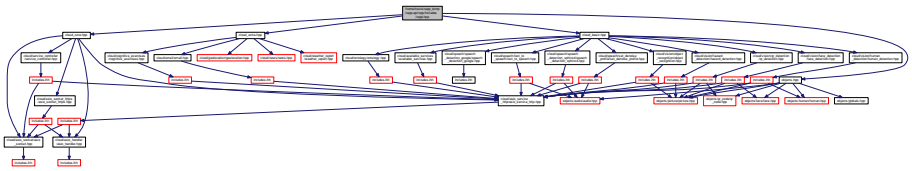
Namespaces

- 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/CognitiveGetHistory.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/CognitiveGetScores.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/CognitiveRecordPerformance.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/HazardDetectionDoor.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/HazardDetectionLight.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/WeatherReport-Current.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/WeatherReport-Forecast.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]

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]

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 Tsardoulias

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]

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]

Definition in file Adapters.py.

7.115 /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/AsyncHandler.py File Reference

Classes

- class RappCloud.ServiceController.AsyncHandler.AsyncHandler

Namespaces

- RappCloud.ServiceController.AsyncHandler

7.116 /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/RAPPAuth.py File Reference

Classes

- class RappCloud.ServiceController.RAPPAuth.RAPPAuth

Namespaces

- RappCloud.ServiceController.RAPPAuth

7.116.1 Detailed Description

Copyright

Rapp Projecty EU 2016

Author

Konstantinos Panayiotou, [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

Rapp Projecty EU 2015

Author

Konstantinos Panayiotou, [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

Rapp Projecty EU 2015

Author

Konstantinos Panayiotou, [klpanagi@gmail.com]

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

Rapp Projecty EU 2016

Author

Konstantinos Panayiotou, [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

Index

/home/travis/rapp_temp/rapp-api/cpp/examples/asio_-tls.cpp, 343
/home/travis/rapp_temp/rapp-api/cpp/examples/face_-detect.cpp, 343
/home/travis/rapp_temp/rapp-api/cpp/examples/fetch_-data.cpp, 344
/home/travis/rapp_temp/rapp-api/cpp/examples/ontology-_example.cpp, 344
/home/travis/rapp_temp/rapp-api/cpp/examples/picture-_example.cpp, 345
/home/travis/rapp_temp/rapp-api/cpp/examples/qr_-detect.cpp, 345
/home/travis/rapp_temp/rapp-api/cpp/examples/set_-denoise_example.cpp, 346
/home/travis/rapp_temp/rapp-api/cpp/examples/speech-_to_text.cpp, 346
/home/travis/rapp_temp/rapp-api/cpp/examples/text_to-_speech.cpp, 347
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_handler/asio_handler.cpp, 348
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_handler/asio_handler.hpp, 348
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_handler/includes.ihh, 349
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_service_http/asio_service_http.cpp, 379
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_service_http/asio_service_http.hpp, 380
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_service_http/includes.ihh, 350
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_socket/asio_socket.hpp, 380
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_socket/includes.ihh, 350
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_socket_https/asio_socket_https.cpp, 381
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_socket_https/asio_socket_https.hpp, 382
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio-_socket_https/includes.ihh, 351
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available-_services/available_services.hpp, 383
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available-_services/includes.ihh, 352
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive-_exercises/cognitive_exercises.hpp, 384
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive-_exercises/includes.ihh, 353
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.-hpp, 385
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/includes.-ihh, 354
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch-_personal_data/fetch_personal_data.hpp, 386
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch-_personal_data/includes.ihh, 356
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/geolocati-hpp, 386
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/includes.-ihh, 356
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path-_planning/includes.ihh, 358
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path-_planning/path_planning.hpp, 387
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/includes.-ihh, 358
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/news.-hpp, 388
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/includes.-ihh, 359
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.-hpp, 389
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service-_controller/includes.ihh, 360
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service-_controller/service_controller.cpp, 390
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service-_controller/service_controller.hpp, 391
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set-_denoise_profile/includes.ihh, 361
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set-_denoise_profile/set_denoise_profile.hpp, 391
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech-_detection_google/includes.ihh, 363
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech-_detection_google/speech_detection_-google.hpp, 392
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech-_detection_sphinx4/includes.ihh, 363
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech-_detection_sphinx4/speech_detection_-sphinx4.hpp, 394
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text-_to_speech/includes.ihh, 364
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text-_to_speech/text_to_speech.hpp, 395

/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/includes.ihh, 366
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/user.hpp, 396
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/face_detection.hpp, 396
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/includes.ihh, 366
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp, 397
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/includes.ihh, 367
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/human_detection.hpp, 398
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/includes.ihh, 368
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/includes.ihh, 370
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/object_recognition.hpp, 399
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/includes.ihh, 371
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/qr_detection.hpp, 400
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/includes.ihh, 372
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp, 401
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_basic.hpp, 402
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_core.hpp, 403
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_extra.hpp, 404
/home/travis/rapp_temp/rapp-api/cpp/includes/objects.hpp, 405
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp, 406
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/includes.ihh, 373
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/face.hpp, 407
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/includes.ihh, 375
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/globals.hpp, 409
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/human.hpp, 410
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/includes.ihh, 376
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/includes.ihh, 377
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/picture.hpp, 411
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/includes.ihh, 377
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr_code.hpp, 412
/home/travis/rapp_temp/rapp-api/cpp/includes/rapp.hpp, 414
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py, 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py, 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py, 416
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py, 416
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py, 416
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailFetch.py, 416
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py, 417
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py, 417
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py, 417
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py, 418
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py, 418
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py, 418
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py, 418
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py, 419
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py, 419
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py, 419
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py, 420
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py, 420
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py, 420
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py, 420
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py, 421
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionGoogle.py, 421
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py, 421
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py, 422
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportCurrent.py, 422
/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReportForecast.py, 422
/home/travis/rapp_temp/rapp-api/python/RappCloud/-

CloudMsgs/__init__.py, 414
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Objects/File.py, 422
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Objects/Payload.py, 423
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Objects/__init__.py, 414
/home/travis/rapp_temp/rapp-api/python/RappCloud/-RappPlatformApi.py, 423
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Service/RappPlatformService.py, 424
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Service/__init__.py, 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/-ServiceController/Adapters.py, 424
/home/travis/rapp_temp/rapp-api/python/RappCloud/-ServiceController/AsyncHandler.py, 425
/home/travis/rapp_temp/rapp-api/python/RappCloud/-ServiceController/RAPPAuth.py, 425
/home/travis/rapp_temp/rapp-api/python/RappCloud/-ServiceController/ServiceControllerAsync.py, 426
/home/travis/rapp_temp/rapp-api/python/RappCloud/-ServiceController/ServiceControllerBase.py, 426
/home/travis/rapp_temp/rapp-api/python/RappCloud/-ServiceController/ServiceControllerSync.py, 426
/home/travis/rapp_temp/rapp-api/python/RappCloud/-ServiceController/__init__.py, 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Utils/DatatypeAssert.py, 427
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Utils/Net.py, 427
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Utils/RandStrGen.py, 428
/home/travis/rapp_temp/rapp-api/python/RappCloud/-Utils/__init__.py, 415
/home/travis/rapp_temp/rapp-api/python/RappCloud/__-init__.py, 414
__all__
RappCloud, 18
__auth
RappCloud::ServiceController::ServiceController-Base::ServiceControllerBase, 299
__boundarySize
RappCloud::Objects::File::File, 94
__call__
RappCloud::ServiceController::RAPPAuth::RAPP-Auth, 163
__cloudObj
RappCloud::Service::RappPlatformService::Rapp-PlatformService, 182
__controller
RappCloud::Service::RappPlatformService::Rapp-PlatformService, 182
__controllerAsync
RappCloud::Service::RappPlatformService::Rapp-PlatformService, 182
__customHeaders
RappCloud::ServiceController::ServiceController-Base::ServiceControllerBase, 300
__eq__
RappCloud::CloudMsgs::Cloud::CloudRequest, 55
RappCloud::CloudMsgs::Cloud::CloudResponse, 58
RappCloud::Objects::File::File, 93
RappCloud::Objects::Payload::Payload, 148
__future
RappCloud::ServiceController::AsyncHandler::-AsyncHandler, 47
__init__
RappCloud::CloudMsgs::Cloud::CloudMsg, 54
RappCloud::CloudMsgs::Cloud::CloudRequest, 55
RappCloud::CloudMsgs::Cloud::CloudResponse, 58
RappCloud::CloudMsgs::CognitiveExerciseSelect-::CognitiveExerciseSelect, 69
RappCloud::CloudMsgs::CognitiveExerciseSelect-::CognitiveExerciseSelect::Request, 209
RappCloud::CloudMsgs::CognitiveExerciseSelect-::CognitiveExerciseSelect::Response, 285
RappCloud::CloudMsgs::CognitiveGetHistory::-CognitiveGetHistory, 71
RappCloud::CloudMsgs::CognitiveGetHistory::-CognitiveGetHistory::Request, 184
RappCloud::CloudMsgs::CognitiveGetHistory::-CognitiveGetHistory::Response, 263
RappCloud::CloudMsgs::CognitiveGetScores::-CognitiveGetScores, 73
RappCloud::CloudMsgs::CognitiveGetScores::-CognitiveGetScores::Request, 213
RappCloud::CloudMsgs::CognitiveGetScores::-CognitiveGetScores::Response, 283
RappCloud::CloudMsgs::CognitiveRecordPerformance-::CognitiveRecordPerformance, 75
RappCloud::CloudMsgs::CognitiveRecordPerformance-::CognitiveRecordPerformance::Request, 238
RappCloud::CloudMsgs::CognitiveRecordPerformance-::CognitiveRecordPerformance::Response, 251
RappCloud::CloudMsgs::EmailFetch::EmailFetch, 81
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Request, 228
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Response, 261
RappCloud::CloudMsgs::EmailSend::EmailSend, 83
RappCloud::CloudMsgs::EmailSend::EmailSend::-Request, 205
RappCloud::CloudMsgs::EmailSend::EmailSend::-Response, 259
RappCloud::CloudMsgs::FaceDetection::Face-Detection, 89
RappCloud::CloudMsgs::FaceDetection::Face-

Detection::Request, 220
RappCloud::CloudMsgs::FaceDetection::Face-Detection::Response, 276
RappCloud::CloudMsgs::Geolocation::Geolocation, 96
RappCloud::CloudMsgs::Geolocation::Geolocation-::Request, 226
RappCloud::CloudMsgs::Geolocation::Geolocation-::Response, 290
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor, 104
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor::Request, 216
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor::Response, 265
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight, 106
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight::Request, 231
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight::Response, 249
RappCloud::CloudMsgs::HumanDetection::-HumanDetection, 112
RappCloud::CloudMsgs::HumanDetection::-HumanDetection::Request, 191
RappCloud::CloudMsgs::HumanDetection::-HumanDetection::Response, 281
RappCloud::CloudMsgs::NewsExplore::News-Explore, 124
RappCloud::CloudMsgs::NewsExplore::News-Explore::Request, 202
RappCloud::CloudMsgs::NewsExplore::News-Explore::Response, 267
RappCloud::CloudMsgs::ObjectRecognitionCaffe-::ObjectRecognitionCaffe, 128
RappCloud::CloudMsgs::ObjectRecognitionCaffe-::ObjectRecognitionCaffe::Request, 211
RappCloud::CloudMsgs::ObjectRecognitionCaffe-::ObjectRecognitionCaffe::Response, 270
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass, 138
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass::Request, 218
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass::Response, 255
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses, 140
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses::Request, 222
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses::Response, 277
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses, 141
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Request, 224
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Response, 247
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D, 144
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D::Request, 193
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D::Response, 279
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap, 146
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap::Request, 235
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap::Response, 272
RappCloud::CloudMsgs::QrDetection::QrDetection, 160
RappCloud::CloudMsgs::QrDetection::QrDetection-::Request, 233
RappCloud::CloudMsgs::QrDetection::QrDetection-::Response, 242
RappCloud::CloudMsgs::SetNoiseProfile::Set-NoiseProfile, 305
RappCloud::CloudMsgs::SetNoiseProfile::Set-NoiseProfile::Request, 240
RappCloud::CloudMsgs::SetNoiseProfile::Set-NoiseProfile::Response, 288
RappCloud::CloudMsgs::SpeechRecognition-Google::SpeechRecognitionGoogle, 312
RappCloud::CloudMsgs::SpeechRecognition-Google::SpeechRecognitionGoogle::Request, 186
RappCloud::CloudMsgs::SpeechRecognition-Google::SpeechRecognitionGoogle::Response, 257
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx, 314
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx::Request, 188
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx::Response, 274
RappCloud::CloudMsgs::TextToSpeech::TextTo-Speech, 325
RappCloud::CloudMsgs::TextToSpeech::TextTo-Speech::Request, 196
RappCloud::CloudMsgs::TextToSpeech::TextTo-Speech::Response, 253
RappCloud::CloudMsgs::WeatherReportCurrent::-WeatherReportCurrent, 339
RappCloud::CloudMsgs::WeatherReportCurrent::-WeatherReportCurrent::Request, 198
RappCloud::CloudMsgs::WeatherReportCurrent::-WeatherReportCurrent::Response, 244
RappCloud::CloudMsgs::WeatherReportForecast-::WeatherReportForecast, 341
RappCloud::CloudMsgs::WeatherReportForecast-::WeatherReportForecast::Request, 200
RappCloud::CloudMsgs::WeatherReportForecast-::WeatherReportForecast::Response, 268
RappCloud::Objects::File::File, 93

RappCloud::Objects::Payload::Payload, 148
RappCloud::RappPlatformApi::RappPlatformAPI, 165
RappCloud::Service::RappPlatformService::RappPlatformService, 180
RappCloud::ServiceController::Adapters::SSL23Adapter, 316
RappCloud::ServiceController::Adapters::SSL2Adapter, 317
RappCloud::ServiceController::Adapters::SSL3Adapter, 319
RappCloud::ServiceController::Adapters::SSLAdapter, 320
RappCloud::ServiceController::Adapters::TLS11Adapter, 327
RappCloud::ServiceController::Adapters::TLS12Adapter, 329
RappCloud::ServiceController::Adapters::TLS1Adapter, 330
RappCloud::ServiceController::Adapters::TLSAdapter, 332
RappCloud::ServiceController::AsyncHandler::AsyncHandler, 47
RappCloud::ServiceController::RAPPAuth::RAPPAuth, 163
RappCloud::ServiceController::ServiceControllerAsync::ServiceControllerAsync, 295
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 298
RappCloud::ServiceController::ServiceControllerSync::ServiceControllerSync, 301
__load_platform_cfg
RappCloud::Service::RappPlatformService::RappPlatformService, 180
__load_token
RappCloud::ServiceController::RAPPAuth::RAPPAuth, 163
__mount_adapters
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 298
__path
RappCloud::Objects::File::File, 94
__persistent
RappCloud::Service::RappPlatformService::RappPlatformService, 182
__platformParams
RappCloud::Service::RappPlatformService::RappPlatformService, 182
__postfield
RappCloud::Objects::File::File, 94
__read_token_from_file
RappCloud::ServiceController::RAPPAuth::RAPPAuth, 163
__threadPool
RappCloud::ServiceController::ServiceControllerAsync::ServiceControllerAsync, 296
__timeout
RappCloud::Service::RappPlatformService::RappPlatformService, 182
_make_url
RappCloud::Service::RappPlatformService::RappPlatformService, 180
_post_persistent
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 298
_post_session_once
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 298
_service
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 300
_svcname
RappCloud::CloudMsgs::Cloud::CloudMsg, 54
_token
RappCloud::ServiceController::RAPPAuth::RAPPAuth, 163
_tokenStoreDir
RappCloud::ServiceController::RAPPAuth::RAPPAuth, 164
_worker_exec
RappCloud::ServiceController::ServiceControllerAsync::ServiceControllerAsync, 296

add_to_args
RappCloud::Utils::DatatypeAssert, 25
add_to_kwargs
RappCloud::Utils::DatatypeAssert, 25
address
rapp::cloud, 17
algorithm
RappCloud::CloudMsgs::PathPlanningPlan2D::PathPlanningPlan2D::Request, 194
alternatives
RappCloud::CloudMsgs::SpeechRecognitionGoogle::SpeechRecognitionGoogle::Response, 258
append
RappCloud::Objects::Payload::Payload, 148
asio_handler
rapp::cloud::asio_handler, 30
asio_service_http
rapp::cloud::asio_service_http, 35
asio_socket_https
rapp::cloud::asio_socket_https, 43
asio_tls.cpp
main, 343
attach_file
RappCloud::CloudMsgs::EmailSend::EmailSend::Request, 206
audio
rapp::object::audio, 49
audio_source
rapp::object::audio, 49
rapp::object::microphone_wav, 116
rapp::object::nao_quad_channel_wav, 117
rapp::object::nao_single_channel_wav, 119
rapp::object::ogg, 129

RappCloud::CloudMsgs::SetNoiseProfile::SetNoiseProfile::Request, 240
RappCloud::CloudMsgs::SpeechRecognitionGoogle::SpeechRecognitionGoogle::Request, 187
RappCloud::CloudMsgs::SpeechRecognitionSphinx::SpeechRecognitionSphinx::Request, 189
audiofile
RappCloud::CloudMsgs::SetNoiseProfile::SetNoiseProfile::Request, 240
RappCloud::CloudMsgs::SpeechRecognitionGoogle::SpeechRecognitionGoogle::Request, 187
RappCloud::CloudMsgs::SpeechRecognitionSphinx::SpeechRecognitionSphinx::Request, 189
available_services
rapp::cloud::available_services, 52
rapp::cloud::login_user, 114

basename
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech::Response, 253
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 298
body
RappCloud::CloudMsgs::EmailSend::EmailSend::Request, 206
boost_tls_socket
rapp::cloud::asio_socket_https, 42
bottom_right_x__
rapp::object::face, 85
rapp::object::human, 107
bottom_right_y__
rapp::object::face, 85
rapp::object::human, 107
byte
rapp::object::picture, 151
rapp::types, 18
bytearray
rapp::object::audio, 50
rapp::object::picture, 151
bytearray_
rapp::object::audio, 50
rapp::object::picture, 152
bytes_transferred_
rapp::cloud::asio_handler, 31

call
RappCloud::Service::RappPlatformService::RappPlatformService, 181
call_async
RappCloud::Service::RappPlatformService::RappPlatformService, 181
callback_
rapp::cloud::asio_handler, 31
centre_x__
rapp::object::qr_code, 156
centre_y__
rapp::object::qr_code, 156
check_timeout
rapp::cloud::asio_service_http, 35
rapp::cloud::asio_socket_https, 44
child_class
RappCloud::CloudMsgs::OntologyIsSubsuperclass::OntologyIsSubsuperclass::Request, 218
city
RappCloud::CloudMsgs::Geolocation::Geolocation::Response, 291
RappCloud::CloudMsgs::WeatherReportCurrent::WeatherReportCurrent::Request, 198
RappCloud::CloudMsgs::WeatherReportForecast::WeatherReportForecast::Request, 201
CloudServices, 15
cognitive_get_history
rapp::cloud::cognitive_get_history, 60
cognitive_get_scores
rapp::cloud::cognitive_get_scores, 62
cognitive_record_performance
rapp::cloud::cognitive_record_performance, 65
cognitive_test_selector
rapp::cloud::cognitive_test_selector, 67
cognitiveExerciseSelect
RappCloud::RappPlatformApi::RappPlatformAPI, 165
cognitiveGetHistory
RappCloud::RappPlatformApi::RappPlatformAPI, 166
cognitiveGetScores
RappCloud::RappPlatformApi::RappPlatformAPI, 166
cognitiveRecordPerformance
RappCloud::RappPlatformApi::RappPlatformAPI, 166
content_length
rapp::cloud::asio_handler, 30
content_length_
rapp::cloud::asio_handler, 31
correct_ans
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Response, 285
country
RappCloud::CloudMsgs::Geolocation::Geolocation::Response, 291
country_code
RappCloud::CloudMsgs::Geolocation::Geolocation::Response, 291
create
RappCloud::Utils::RandStrGen::RandStrGen, 161
ctx_
rapp::cloud::asio_socket_https, 45

datatypeassert
RappCloud::Utils::DatatypeAssert, 25
date
RappCloud::CloudMsgs::WeatherReportCurrent::WeatherReportCurrent::Response, 245

date_from
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Request, 229
date_to
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Request, 229
decode64
rapp::cloud::asio_handler, 30
delegate_
rapp::cloud::available_services, 52
rapp::cloud::cognitive_get_history, 60
rapp::cloud::cognitive_get_scores, 63
rapp::cloud::cognitive_record_performance, 65
rapp::cloud::cognitive_test_selector, 67
rapp::cloud::email_fetch, 77
rapp::cloud::email_send, 80
rapp::cloud::face_detection, 88
rapp::cloud::geolocation, 98
rapp::cloud::login_user, 114
rapp::cloud::news_explore, 122
rapp::cloud::plan_path_2d, 155
rapp::cloud::speech_detection_google, 308
rapp::cloud::speech_detection_sphinx4, 310
rapp::cloud::text_to_speech, 324
rapp::cloud::weather_report_current, 335
rapp::cloud::weather_report_forecast, 338
delegate__
rapp::cloud::fetch_personal_data, 91
rapp::cloud::hazard_detection_door_check, 100
rapp::cloud::hazard_detection_light_check, 103
rapp::cloud::human_detection, 110
rapp::cloud::object_recognition, 126
rapp::cloud::ontology_is_subsuperclass_of, 132
rapp::cloud::ontology_subclasses_of, 134
rapp::cloud::ontology_superclasses_of, 136
rapp::cloud::qr_detection, 158
door_angle
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor::Response, 265

email
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Request, 229
RappCloud::CloudMsgs::EmailSend::EmailSend::-Request, 206
email_fetch
rapp::cloud::email_fetch, 77
email_send
rapp::cloud::email_send, 79
email_status
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Request, 229
emailFetch
RappCloud::RappPlatformApi::RappPlatformAPI, 167
emailSend
RappCloud::RappPlatformApi::RappPlatformAPI, 168
emails
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Response, 261
encode64
rapp::cloud::asio_handler, 30
encoding
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech::Response, 253
engine
RappCloud::CloudMsgs::Geolocation::Geolocation-::Request, 226
error
RappCloud::CloudMsgs::CognitiveExerciseSelect-::CognitiveExerciseSelect::Response, 285
RappCloud::CloudMsgs::CognitiveGetHistory::-CognitiveGetHistory::Response, 263
RappCloud::CloudMsgs::CognitiveGetScores::-CognitiveGetScores::Response, 283
RappCloud::CloudMsgs::CognitiveRecordPerformance-::CognitiveRecordPerformance::Response, 251
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Response, 261
RappCloud::CloudMsgs::EmailSend::EmailSend::-Response, 259
RappCloud::CloudMsgs::FaceDetection::Face-Detection::Response, 276
RappCloud::CloudMsgs::Geolocation::Geolocation-::Response, 291
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor::Response, 265
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight::Response, 249
RappCloud::CloudMsgs::HumanDetection::-HumanDetection::Response, 282
RappCloud::CloudMsgs::NewsExplore::News-Explore::Response, 267
RappCloud::CloudMsgs::ObjectRecognitionCaffe-::ObjectRecognitionCaffe::Response, 271
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass::Response, 256
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses::Response, 278
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Response, 247
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D::Response, 280
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap::Response, 272
RappCloud::CloudMsgs::QrDetection::QrDetection-::Response, 242
RappCloud::CloudMsgs::SetNoiseProfile::Set-NoiseProfile::Response, 288
RappCloud::CloudMsgs::SpeechRecognition-Google::SpeechRecognitionGoogle::Response, 258
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx::Response, 274

RappCloud::CloudMsgs::TextToSpeech::TextToSpeech::Response, 254
RappCloud::CloudMsgs::WeatherReportCurrent::WeatherReportCurrent::Response, 245
RappCloud::CloudMsgs::WeatherReportForecast::WeatherReportForecast::Response, 269
error_handler
rapp::cloud::asio_handler, 30
escape_string
rapp::cloud::asio_handler, 31
exclude_titles
RappCloud::CloudMsgs::NewsExplore::NewsExplore::Request, 203
extension
rapp::object::audio, 50
rapp::object::microphone_wav, 116
rapp::object::nao_quad_channel_wav, 117
rapp::object::nao_single_channel_wav, 119
rapp::object::ogg, 129

face
rapp::object::face, 84
face_detect.cpp
main, 344
face_detection
rapp::cloud::face_detection, 87
faceDetection
RappCloud::RappPlatformApi::RappPlatformAPI, 168
faces
RappCloud::CloudMsgs::FaceDetection::FaceDetection::Response, 276
fast
RappCloud::CloudMsgs::FaceDetection::FaceDetection::Request, 220
fetch_personal_data
rapp::cloud::fetch_personal_data, 91
flag_
rapp::cloud::asio_handler, 32
forecast
RappCloud::CloudMsgs::WeatherReportForecast::WeatherReportForecast::Response, 269

geolocation
rapp::cloud::geolocation, 98
RappCloud::RappPlatformApi::RappPlatformAPI, 169
get_audio_raw
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech::Response, 253
grammar
RappCloud::CloudMsgs::SpeechRecognitionSphinx::SpeechRecognitionSphinx::Request, 189

handle_connect
rapp::cloud::asio_service_http, 35
rapp::cloud::asio_socket_https, 44
handle_exception
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 299
handle_handshake
rapp::cloud::asio_socket_https, 44
handle_read_content
rapp::cloud::asio_service_http, 35
rapp::cloud::asio_socket_https, 44
handle_read_headers
rapp::cloud::asio_service_http, 36
rapp::cloud::asio_socket_https, 44
handle_read_status_line
rapp::cloud::asio_service_http, 36
rapp::cloud::asio_socket_https, 44
handle_reply
rapp::cloud::available_services, 52
rapp::cloud::cognitive_get_history, 60
rapp::cloud::cognitive_get_scores, 62
rapp::cloud::cognitive_record_performance, 65
rapp::cloud::cognitive_test_selector, 67
rapp::cloud::email_fetch, 77
rapp::cloud::email_send, 80
rapp::cloud::face_detection, 87
rapp::cloud::fetch_personal_data, 91
rapp::cloud::geolocation, 98
rapp::cloud::hazard_detection_door_check, 100
rapp::cloud::hazard_detection_light_check, 102
rapp::cloud::human_detection, 110
rapp::cloud::login_user, 114
rapp::cloud::news_explore, 122
rapp::cloud::object_recognition, 126
rapp::cloud::ontology_is_subsuperclass_of, 132
rapp::cloud::ontology_subclasses_of, 134
rapp::cloud::ontology_superclasses_of, 136
rapp::cloud::plan_path_2d, 154
rapp::cloud::qr_detection, 158
rapp::cloud::set_denoise_profile, 303
rapp::cloud::speech_detection_google, 308
rapp::cloud::speech_detection_sphinx4, 310
rapp::cloud::text_to_speech, 324
rapp::cloud::weather_report_current, 335
rapp::cloud::weather_report_forecast, 338
handle_resolve
rapp::cloud::asio_service_http, 36
handle_write
rapp::cloud::asio_socket_https, 45
handle_write_request
rapp::cloud::asio_service_http, 36
has_content_length
rapp::cloud::asio_handler, 31
hazard_detection_door_check
rapp::cloud::hazard_detection_door_check, 100
hazard_detection_light_check
rapp::cloud::hazard_detection_light_check, 102
hazardDetectionDoor
RappCloud::RappPlatformApi::RappPlatformAPI, 169
hazardDetectionLights

RappCloud::RappPlatformApi::RappPlatformAPI, 169
header_
rapp::cloud::asio_handler, 32
human
rapp::object::human, 107
human_detection
rapp::cloud::human_detection, 110
humanDetection
RappCloud::RappPlatformApi::RappPlatformAPI, 171
humans
RappCloud::CloudMsgs::HumanDetection::HumanDetection::Response, 282
humidity
RappCloud::CloudMsgs::WeatherReportCurrent::WeatherReportCurrent::Response, 245

imageFilepath
RappCloud::CloudMsgs::FaceDetection::FaceDetection::Request, 220
RappCloud::CloudMsgs::HazardDetectionDoor::HazardDetectionDoor::Request, 216
RappCloud::CloudMsgs::HazardDetectionLight::HazardDetectionLight::Request, 232
RappCloud::CloudMsgs::HumanDetection::HumanDetection::Request, 191
RappCloud::CloudMsgs::ObjectRecognitionCaffe::ObjectRecognitionCaffe::Request, 212
RappCloud::CloudMsgs::QrDetection::QrDetection::Request, 234
imgtype_
rapp::object::picture, 152
init_poolmanager
RappCloud::ServiceController::Adapters::SSLAdapter, 320
invalid_request
rapp::cloud::asio_handler, 31
io_
rapp::cloud::service_controller, 294
ipaddr
RappCloud::CloudMsgs::Geolocation::Geolocation::Request, 226
ipaddr_connected
RappCloud::Utils::Net::Net, 120
is_json
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 299

json_
rapp::cloud::asio_handler, 32

keywords
RappCloud::CloudMsgs::NewsExplore::NewsExplore::Request, 203

label
rapp::object::qr_code, 156
language
RappCloud::CloudMsgs::SpeechRecognitionGoogle::SpeechRecognitionGoogle::Request, 187
RappCloud::CloudMsgs::SpeechRecognitionSphinx::SpeechRecognitionSphinx::Request, 189
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech::Request, 196
latitude
RappCloud::CloudMsgs::Geolocation::Geolocation::Response, 291
light_level
RappCloud::CloudMsgs::HazardDetectionLight::HazardDetectionLight::Response, 249
load_jsgf
speech_to_text.cpp, 347
longtitude
RappCloud::CloudMsgs::Geolocation::Geolocation::Response, 291

main
asio_tls.cpp, 343
face_detect.cpp, 344
ontology_example.cpp, 344
picture_example.cpp, 345
qr_detect.cpp, 346
set_denoise_example.cpp, 346
speech_to_text.cpp, 347
text_to_speech.cpp, 348
make_files
RappCloud::CloudMsgs::Cloud::CloudRequest, 55
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Request, 209
RappCloud::CloudMsgs::CognitiveGetHistory::CognitiveGetHistory::Request, 184
RappCloud::CloudMsgs::CognitiveGetScores::CognitiveGetScores::Request, 214
RappCloud::CloudMsgs::CognitiveRecordPerformance::CognitiveRecordPerformance::Request, 238
RappCloud::CloudMsgs::EmailFetch::EmailFetch::Request, 229
RappCloud::CloudMsgs::EmailSend::EmailSend::Request, 206
RappCloud::CloudMsgs::FaceDetection::FaceDetection::Request, 220
RappCloud::CloudMsgs::Geolocation::Geolocation::Request, 226
RappCloud::CloudMsgs::HazardDetectionDoor::HazardDetectionDoor::Request, 216
RappCloud::CloudMsgs::HazardDetectionLight::HazardDetectionLight::Request, 232
RappCloud::CloudMsgs::HumanDetection::HumanDetection::Request, 191
RappCloud::CloudMsgs::NewsExplore::NewsExplore::Request, 203
RappCloud::CloudMsgs::ObjectRecognitionCaffe::ObjectRecognitionCaffe::Request, 212
RappCloud::CloudMsgs::OntologyIsSubsuperclass::OntologyIsSubsuperclass::Request, 218

RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses::Request, 222
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Request, 224
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D::Request, 193
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap::Request, 236
RappCloud::CloudMsgs::QrDetection::QrDetection-::Request, 233
RappCloud::CloudMsgs::SetNoiseProfile::Set-NoiseProfile::Request, 240
RappCloud::CloudMsgs::SpeechRecognition-Google::SpeechRecognitionGoogle::Request, 186
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx::Request, 189
RappCloud::CloudMsgs::TextToSpeech::TextTo-Speech::Request, 196
RappCloud::CloudMsgs::WeatherReportCurrent::-WeatherReportCurrent::Request, 198
RappCloud::CloudMsgs::WeatherReportForecast-::WeatherReportForecast::Request, 200
make_json
RappCloud::Objects::Payload::Payload, 148
make_payload
RappCloud::CloudMsgs::Cloud::CloudRequest, 56
RappCloud::CloudMsgs::CognitiveExerciseSelect-::CognitiveExerciseSelect::Request, 209
RappCloud::CloudMsgs::CognitiveGetHistory::-CognitiveGetHistory::Request, 184
RappCloud::CloudMsgs::CognitiveGetScores::-CognitiveGetScores::Request, 214
RappCloud::CloudMsgs::CognitiveRecordPerformance-::CognitiveRecordPerformance::Request, 238
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Request, 229
RappCloud::CloudMsgs::EmailSend::EmailSend::-Request, 206
RappCloud::CloudMsgs::FaceDetection::Face-Detection::Request, 220
RappCloud::CloudMsgs::Geolocation::Geolocation-::Request, 226
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor::Request, 216
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight::Request, 232
RappCloud::CloudMsgs::HumanDetection::-HumanDetection::Request, 191
RappCloud::CloudMsgs::NewsExplore::News-Explore::Request, 203
RappCloud::CloudMsgs::ObjectRecognitionCaffe-::ObjectRecognitionCaffe::Request, 212
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass::Request, 218
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses::Request, 222
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Request, 224
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D::Request, 193
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap::Request, 236
RappCloud::CloudMsgs::QrDetection::QrDetection-::Request, 234
RappCloud::CloudMsgs::SetNoiseProfile::Set-NoiseProfile::Request, 240
RappCloud::CloudMsgs::SpeechRecognition-Google::SpeechRecognitionGoogle::Request, 186
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx::Request, 189
RappCloud::CloudMsgs::TextToSpeech::TextTo-Speech::Request, 196
RappCloud::CloudMsgs::WeatherReportCurrent::-WeatherReportCurrent::Request, 198
RappCloud::CloudMsgs::WeatherReportForecast-::WeatherReportForecast::Request, 200
make_tuple
RappCloud::Objects::File::File, 93
map_name
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D::Request, 194
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap::Request, 236
message__
rapp::object::qr_code, 156
metric
RappCloud::CloudMsgs::WeatherReportCurrent::-WeatherReportCurrent::Request, 198
RappCloud::CloudMsgs::WeatherReportForecast-::WeatherReportForecast::Request, 201
microphone_wav
rapp::object::microphone_wav, 115, 116

nao_quad_channel_wav
rapp::object::nao_quad_channel_wav, 117
nao_single_channel_wav
rapp::object::nao_single_channel_wav, 119
news_engine
RappCloud::CloudMsgs::NewsExplore::News-Explore::Request, 203
news_explore
rapp::cloud::news_explore, 122
news_stories
RappCloud::CloudMsgs::NewsExplore::News-Explore::Response, 267
newsExplore
RappCloud::RappPlatformApi::RappPlatformAPI, 171
num_emails
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Request, 229
num_news

RappCloud::CloudMsgs::NewsExplore::NewsExplore::Request, 203

object_class
RappCloud::CloudMsgs::ObjectRecognitionCaffe::ObjectRecognitionCaffe::Response, 271
object_recognition
rapp::cloud::object_recognition, 126
objectRecognitionCaffe
RappCloud::RappPlatformApi::RappPlatformAPI, 172
ogg
rapp::object::ogg, 129
ontology_class
RappCloud::CloudMsgs::OntologySubclasses::OntologySubclasses::Request, 222
RappCloud::CloudMsgs::OntologySuperclasses::OntologySuperclasses::Request, 224
ontology_example.cpp
main, 344
ontology_is_subsuperclass_of
rapp::cloud::ontology_is_subsuperclass_of, 131
ontology_subclasses_of
rapp::cloud::ontology_subclasses_of, 134
ontology_superclasses_of
rapp::cloud::ontology_superclasses_of, 136
ontologyIsSubsuperclass
RappCloud::RappPlatformApi::RappPlatformAPI, 172
ontologySubclasses
RappCloud::RappPlatformApi::RappPlatformAPI, 172
ontologySuperclasses
RappCloud::RappPlatformApi::RappPlatformAPI, 173
opencb_
rapp::object::picture, 151
operator<<
speech_to_text.cpp, 347
operator=
rapp::object::audio, 50
rapp::object::picture, 152
operator==
rapp::object::audio, 50
rapp::object::face, 85
rapp::object::human, 107
rapp::object::picture, 152
rapp::object::qr_code, 156

parent_class
RappCloud::CloudMsgs::OntologyIsSubsuperclass::OntologyIsSubsuperclass::Request, 218
password
RappCloud::CloudMsgs::EmailFetch::EmailFetch::Request, 229
RappCloud::CloudMsgs::EmailSend::EmailSend::Request, 206
path
RappCloud::CloudMsgs::PathPlanningPlan2D::PathPlanningPlan2D::Response, 280
RappCloud::Objects::File::File, 93
pathPlanningPlan2D
RappCloud::RappPlatformApi::RappPlatformAPI, 173
pathPlanningUploadMap
RappCloud::RappPlatformApi::RappPlatformAPI, 174
payload
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech::Response, 254
performance_entry
RappCloud::CloudMsgs::CognitiveRecordPerformance::CognitiveRecordPerformance::Response, 251
persistent
RappCloud::Service::RappPlatformService::RappPlatformService, 181
picture
rapp::object::picture, 151
picture_example.cpp
main, 345
plan_found
RappCloud::CloudMsgs::PathPlanningPlan2D::PathPlanningPlan2D::Response, 280
plan_path2d, 152
plan_path_d2
rapp::cloud::plan_path_2d, 154
png_file
RappCloud::CloudMsgs::PathPlanningUploadMap::PathPlanningUploadMap::Request, 236
poolmanager
RappCloud::ServiceController::Adapters::SSLAdapter, 320
port
rapp::cloud, 17
RappCloud::CloudMsgs::EmailFetch::EmailFetch::Request, 229
RappCloud::CloudMsgs::EmailSend::EmailSend::Request, 207
pose_goal
RappCloud::CloudMsgs::PathPlanningPlan2D::PathPlanningPlan2D::Request, 194
pose_start
RappCloud::CloudMsgs::PathPlanningPlan2D::PathPlanningPlan2D::Request, 194
possib_ans
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Response, 286
post_
rapp::cloud::asio_handler, 32
post_request
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase, 299
postfield
RappCloud::Objects::File::File, 94
pressure

RappCloud::CloudMsgs::WeatherReportCurrent::-
WeatherReportCurrent::Response, 245

qr_centers
RappCloud::CloudMsgs::QrDetection::QrDetection-
::Response, 242
qr_code
rapp::object::qr_code, 155
qr_detect.cpp
main, 346
qr_detection
rapp::cloud::qr_detection, 158
qr_messages
RappCloud::CloudMsgs::QrDetection::QrDetection-
::Response, 242
qrCode, 159
qrDetection
RappCloud::RappPlatformApi::RappPlatformAPI,
174
query_
rapp::cloud::service_controller, 294
questions
RappCloud::CloudMsgs::CognitiveExerciseSelect-
::CognitiveExerciseSelect::Response, 286

random_boundary
rapp::cloud::asio_handler, 31
rapp, 15
rapp::cloud, 15
address, 17
port, 17
rapp::cloud::asio_handler, 27
asio_handler, 30
bytes_transferred_, 31
callback_, 31
content_length, 30
content_length_, 31
decode64, 30
encode64, 30
error_handler, 30
escape_string, 31
flag_, 32
has_content_length, 31
header_, 32
invalid_request, 31
json_, 32
post_, 32
random_boundary, 31
request_, 32
response_, 32
strip_header, 31
timer_, 32
token_, 32
rapp::cloud::asio_service_http, 33
asio_service_http, 35
check_timeout, 35
handle_connect, 35
handle_read_content, 35
handle_read_headers, 36
handle_read_status_line, 36
handle_resolve, 36
handle_write_request, 36
reset, 36
schedule, 36
socket_, 38
rapp::cloud::asio_socket, 38
schedule, 40
rapp::cloud::asio_socket_https, 40
asio_socket_https, 43
boost_tls_socket, 42
check_timeout, 44
ctx_, 45
handle_connect, 44
handle_handshake, 44
handle_read_content, 44
handle_read_headers, 44
handle_read_status_line, 44
handle_write, 45
reset, 45
schedule, 45
tls_socket_, 45
verify_certificate, 45
rapp::cloud::available_services, 50
available_services, 52
delegate_, 52
handle_reply, 52
rapp::cloud::cognitive_get_history, 58
cognitive_get_history, 60
delegate_, 60
handle_reply, 60
rapp::cloud::cognitive_get_scores, 61
cognitive_get_scores, 62
delegate_, 63
handle_reply, 62
rapp::cloud::cognitive_record_performance, 63
cognitive_record_performance, 65
delegate_, 65
handle_reply, 65
rapp::cloud::cognitive_test_selector, 65
cognitive_test_selector, 67
delegate_, 67
handle_reply, 67
rapp::cloud::email_fetch, 75
delegate_, 77
email_fetch, 77
handle_reply, 77
rapp::cloud::email_send, 78
delegate_, 80
email_send, 79
handle_reply, 80
rapp::cloud::face_detection, 85
delegate_, 88
face_detection, 87
handle_reply, 87
rapp::cloud::fetch_personal_data, 89
delegate__, 91
fetch_personal_data, 91

handle_reply, 91
rapp::cloud::geolocation, 96
delegate_, 98
geolocation, 98
handle_reply, 98
rapp::cloud::hazard_detection_door_check, 98
delegate__, 100
handle_reply, 100
hazard_detection_door_check, 100
rapp::cloud::hazard_detection_light_check, 101
delegate__, 103
handle_reply, 102
hazard_detection_light_check, 102
rapp::cloud::human_detection, 108
delegate__, 110
handle_reply, 110
human_detection, 110
rapp::cloud::login_user, 112
available_services, 114
delegate_, 114
handle_reply, 114
rapp::cloud::news_explore, 120
delegate_, 122
handle_reply, 122
news_explore, 122
rapp::cloud::object_recognition, 124
delegate__, 126
handle_reply, 126
object_recognition, 126
rapp::cloud::ontology_is_subsuperclass_of, 130
delegate__, 132
handle_reply, 132
ontology_is_subsuperclass_of, 131
rapp::cloud::ontology_subclasses_of, 132
delegate__, 134
handle_reply, 134
ontology_subclasses_of, 134
rapp::cloud::ontology_superclasses_of, 134
delegate__, 136
handle_reply, 136
ontology_superclasses_of, 136
rapp::cloud::path_upload_map, 142
rapp::cloud::plan_path_2d, 153
delegate_, 155
handle_reply, 154
plan_path_d2, 154
wav_file, 154
rapp::cloud::qr_detection, 156
delegate__, 158
handle_reply, 158
qr_detection, 158
rapp::cloud::service_controller, 292
io_, 294
query_, 294
resol_, 294
run_job, 293
run_jobs, 293
service_controller, 293
stop, 293
rapp::cloud::set_denoise_profile, 302
handle_reply, 303
set_denoise_profile, 303
rapp::cloud::speech_detection_google, 305
delegate_, 308
handle_reply, 308
speech_detection_google, 307
rapp::cloud::speech_detection_sphinx4, 308
delegate_, 310
handle_reply, 310
speech_detection_sphinx4, 310
rapp::cloud::text_to_speech, 322
delegate_, 324
handle_reply, 324
text_to_speech, 323
wav_file, 323
rapp::cloud::weather_report_current, 332
delegate_, 335
handle_reply, 335
weather_report_current, 334
rapp::cloud::weather_report_forecast, 335
delegate_, 338
handle_reply, 338
weather_report_forecast, 337
rapp::object, 17
rapp::object::audio, 47
audio, 49
audio_source, 49
bytearray, 50
bytearray_, 50
extension, 50
operator=, 50
operator==, 50
read_bytes, 50
save, 50
rapp::object::face, 83
bottom_right_x__, 85
bottom_right_y__, 85
face, 84
operator==, 85
top_left_x__, 85
top_left_y__, 85
rapp::object::human, 106
bottom_right_x__, 107
bottom_right_y__, 107
human, 107
operator==, 107
top_left_x__, 108
top_left_y__, 108
rapp::object::microphone_wav, 114
audio_source, 116
extension, 116
microphone_wav, 115, 116
rapp::object::nao_quad_channel_wav, 116
audio_source, 117
extension, 117
nao_quad_channel_wav, 117

rapp::object::nao_single_channel_wav, 118
audio_source, 119
extension, 119
nao_single_channel_wav, 119
rapp::object::ogg, 128
audio_source, 129
extension, 129
ogg, 129
rapp::object::picture, 150
byte, 151
bytearray, 151
bytearray_, 152
imgtype_, 152
opencb_, 151
operator=, 152
operator==, 152
picture, 151
save, 152
type, 152
rapp::object::qr_code, 155
centre_x__, 156
centre_y__, 156
label, 156
message__, 156
operator==, 156
qr_code, 155
rapp::types, 17
byte, 18
RappCloud, 18
__all__, 18
RappCloud.CloudMsgs, 18
RappCloud.CloudMsgs.Cloud, 19
RappCloud.CloudMsgs.Cloud.CloudMsg, 53
RappCloud.CloudMsgs.Cloud.CloudRequest, 54
RappCloud.CloudMsgs.Cloud.CloudResponse, 57
RappCloud.CloudMsgs.CognitiveExerciseSelect, 19
RappCloud.CloudMsgs.CognitiveExerciseSelect.-
CognitiveExerciseSelect, 68
RappCloud.CloudMsgs.CognitiveExerciseSelect.-
CognitiveExerciseSelect.Request, 208
RappCloud.CloudMsgs.CognitiveExerciseSelect.-
CognitiveExerciseSelect.Response, 284
RappCloud.CloudMsgs.CognitiveGetHistory, 19
RappCloud.CloudMsgs.CognitiveGetHistory.Cognitive-
GetHistory, 70
RappCloud.CloudMsgs.CognitiveGetHistory.Cognitive-
GetHistory.Request, 183
RappCloud.CloudMsgs.CognitiveGetHistory.Cognitive-
GetHistory.Response, 262
RappCloud.CloudMsgs.CognitiveGetScores, 19
RappCloud.CloudMsgs.CognitiveGetScores.Cognitive-
GetScores, 72
RappCloud.CloudMsgs.CognitiveGetScores.Cognitive-
GetScores.Request, 212
RappCloud.CloudMsgs.CognitiveGetScores.Cognitive-
GetScores.Response, 282
RappCloud.CloudMsgs.CognitiveRecordPerformance,
19
RappCloud.CloudMsgs.CognitiveRecordPerformance.-
CognitiveRecordPerformance, 74
RappCloud.CloudMsgs.CognitiveRecordPerformance.-
CognitiveRecordPerformance.Request, 237
RappCloud.CloudMsgs.CognitiveRecordPerformance.-
CognitiveRecordPerformance.Response, 250
RappCloud.CloudMsgs.EmailFetch, 19
RappCloud.CloudMsgs.EmailFetch.EmailFetch, 80
RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request,
227
RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response,
260
RappCloud.CloudMsgs.EmailSend, 20
RappCloud.CloudMsgs.EmailSend.EmailSend, 82
RappCloud.CloudMsgs.EmailSend.EmailSend.Request,
204
RappCloud.CloudMsgs.EmailSend.EmailSend.Response,
258
RappCloud.CloudMsgs.FaceDetection, 20
RappCloud.CloudMsgs.FaceDetection.FaceDetection,
88
RappCloud.CloudMsgs.FaceDetection.FaceDetection.-
Request, 219
RappCloud.CloudMsgs.FaceDetection.FaceDetection.-
Response, 275
RappCloud.CloudMsgs.Geolocation, 20
RappCloud.CloudMsgs.Geolocation.Geolocation, 95
RappCloud.CloudMsgs.Geolocation.Geolocation.-
Request, 225
RappCloud.CloudMsgs.Geolocation.Geolocation.-
Response, 288
RappCloud.CloudMsgs.HazardDetectionDoor, 20
RappCloud.CloudMsgs.HazardDetectionDoor.Hazard-
DetectionDoor, 103
RappCloud.CloudMsgs.HazardDetectionDoor.Hazard-
DetectionDoor.Request, 215
RappCloud.CloudMsgs.HazardDetectionDoor.Hazard-
DetectionDoor.Response, 264
RappCloud.CloudMsgs.HazardDetectionLight, 20
RappCloud.CloudMsgs.HazardDetectionLight.Hazard-
DetectionLight, 105
RappCloud.CloudMsgs.HazardDetectionLight.Hazard-
DetectionLight.Request, 230
RappCloud.CloudMsgs.HazardDetectionLight.Hazard-
DetectionLight.Response, 248
RappCloud.CloudMsgs.HumanDetection, 20
RappCloud.CloudMsgs.HumanDetection.Human-
Detection, 111
RappCloud.CloudMsgs.HumanDetection.Human-
Detection.Request, 190
RappCloud.CloudMsgs.HumanDetection.Human-
Detection.Response, 280
RappCloud.CloudMsgs.NewsExplore, 20
RappCloud.CloudMsgs.NewsExplore.NewsExplore, 123
RappCloud.CloudMsgs.NewsExplore.NewsExplore.-
Request, 201
RappCloud.CloudMsgs.NewsExplore.NewsExplore.-
Response, 266

RappCloud.CloudMsgs.ObjectRecognitionCaffe, 21
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe, 127
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request, 210
RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response, 269
RappCloud.CloudMsgs.OntologyIsSubsuperclass, 21
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass, 137
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request, 217
RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response, 254
RappCloud.CloudMsgs.OntologySubclasses, 21
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses, 139
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request, 221
RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response, 276
RappCloud.CloudMsgs.OntologySuperclasses, 21
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses, 140
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request, 223
RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response, 246
RappCloud.CloudMsgs.PathPlanningPlan2D, 21
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D, 143
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request, 192
RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response, 278
RappCloud.CloudMsgs.PathPlanningUploadMap, 21
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap, 145
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request, 234
RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response, 271
RappCloud.CloudMsgs.QrDetection, 21
RappCloud.CloudMsgs.QrDetection.QrDetection, 159
RappCloud.CloudMsgs.QrDetection.QrDetection.Request, 232
RappCloud.CloudMsgs.QrDetection.QrDetection.Response, 241
RappCloud.CloudMsgs.SetNoiseProfile, 22
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile, 304
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request, 239
RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response, 287
RappCloud.CloudMsgs.SpeechRecognitionGoogle, 22
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle, 311
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request, 185
RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response, 256
RappCloud.CloudMsgs.SpeechRecognitionSphinx, 22
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx, 313
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request, 187
RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response, 273
RappCloud.CloudMsgs.TextToSpeech, 22
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech, 324
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request, 195
RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response, 252
RappCloud.CloudMsgs.WeatherReportCurrent, 22
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent, 338
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request, 197
RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response, 243
RappCloud.CloudMsgs.WeatherReportForecast, 22
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast, 340
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request, 199
RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response, 267
RappCloud.Objects, 22
RappCloud.Objects.File, 23
RappCloud.Objects.File.File, 92
RappCloud.Objects.Payload, 23
RappCloud.Objects.Payload.Payload, 147
RappCloud.RappPlatformApi, 23
RappCloud.RappPlatformApi.RappPlatformAPI, 164
RappCloud.Service, 23
RappCloud.Service.RappPlatformService, 23
RappCloud.Service.RappPlatformService.RappPlatformService, 179
RappCloud.ServiceController, 23
RappCloud.ServiceController.Adapters, 23
RappCloud.ServiceController.Adapters.SSL23Adapter, 315
RappCloud.ServiceController.Adapters.SSL2Adapter, 316
RappCloud.ServiceController.Adapters.SSL3Adapter, 318
RappCloud.ServiceController.Adapters.SSLAdapter, 319
RappCloud.ServiceController.Adapters.SSLDef, 321
RappCloud.ServiceController.Adapters.TLS11Adapter, 326
RappCloud.ServiceController.Adapters.TLS12Adapter, 328

RappCloud.ServiceController.Adapters.TLS1Adapter, 329
RappCloud.ServiceController.Adapters.TLSAdapter, 331
RappCloud.ServiceController.AsyncHandler, 24
RappCloud.ServiceController.AsyncHandler.AsyncHandler, 46
RappCloud.ServiceController.RAPPAuth, 24
RappCloud.ServiceController.RAPPAuth.RAPPAuth, 162
RappCloud.ServiceController.ServiceControllerAsync, 24
RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync, 294
RappCloud.ServiceController.ServiceControllerBase, 24
RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase, 296
RappCloud.ServiceController.ServiceControllerSync, 24
RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync, 300
RappCloud.Utils, 24
RappCloud.Utils.DatatypeAssert, 25
RappCloud.Utils.Net, 25
RappCloud.Utils.Net.Net, 119
RappCloud.Utils.RandStrGen, 25
RappCloud.Utils.RandStrGen.RandStrGen, 161
RappCloud::CloudMsgs::Cloud::CloudMsg
__init__, 54
_svcname, 54
svcname, 54
RappCloud::CloudMsgs::Cloud::CloudRequest
__eq__, 55
__init__, 55
make_files, 55
make_payload, 56
serialize, 56
set, 56
RappCloud::CloudMsgs::Cloud::CloudResponse
__eq__, 58
__init__, 58
serialize, 58
set, 58
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect
req, 69
resp, 69
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Request
make_files, 209
make_payload, 209
test_diff, 209
test_index, 209
test_subtype, 210
test_type, 210
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Response
correct_ans, 285
error, 285
possib_ans, 286
questions, 286
test_instance, 286
test_subtype, 286
test_type, 286
RappCloud::CloudMsgs::CognitiveGetHistory::CognitiveGetHistory
req, 71
resp, 71
RappCloud::CloudMsgs::CognitiveGetHistory::CognitiveGetHistory::Request
make_files, 184
make_payload, 184
test_type, 184
time_from, 184
time_to, 185
RappCloud::CloudMsgs::CognitiveGetHistory::CognitiveGetHistory::Response
error, 263
records, 263
RappCloud::CloudMsgs::CognitiveGetScores::CognitiveGetScores
req, 73
resp, 73
RappCloud::CloudMsgs::CognitiveGetScores::CognitiveGetScores::Request
make_files, 214
make_payload, 214
test_type, 214
time_to, 214
RappCloud::CloudMsgs::CognitiveGetScores::CognitiveGetScores::Response
error, 283
scores, 283
test_classes, 283
RappCloud::CloudMsgs::CognitiveRecordPerformance::CognitiveRecordPerformance
req, 75
resp, 75
RappCloud::CloudMsgs::CognitiveRecordPerformance::CognitiveRecordPerformance::Request
make_files, 238
make_payload, 238
score, 238
test_instance, 238
RappCloud::CloudMsgs::CognitiveRecordPerformance::CognitiveRecordPerformance::Response
error, 251
performance_entry, 251
RappCloud::CloudMsgs::EmailFetch::EmailFetch
__init__, 81
req, 81
resp, 81
RappCloud::CloudMsgs::EmailFetch::EmailFetch::Request
date_from, 229

date_to, 229
email, 229
email_status, 229
make_files, 229
make_payload, 229
num_emails, 229
password, 229
port, 229
server, 230
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Response
emails, 261
error, 261
RappCloud::CloudMsgs::EmailSend::EmailSend
__init__, 83
req, 83
resp, 83
RappCloud::CloudMsgs::EmailSend::EmailSend::-Request
__init__, 205
attach_file, 206
body, 206
email, 206
make_files, 206
make_payload, 206
password, 206
port, 207
recipients, 207
server, 207
subject, 207
RappCloud::CloudMsgs::EmailSend::EmailSend::-Response
error, 259
RappCloud::CloudMsgs::FaceDetection::FaceDetection
__init__, 89
req, 89
resp, 89
RappCloud::CloudMsgs::FaceDetection::FaceDetection-::Request
fast, 220
imageFilepath, 220
make_files, 220
make_payload, 220
RappCloud::CloudMsgs::FaceDetection::FaceDetection-::Response
error, 276
faces, 276
RappCloud::CloudMsgs::Geolocation::Geolocation
__init__, 96
req, 96
resp, 96
RappCloud::CloudMsgs::Geolocation::Geolocation::-Request
__init__, 226
engine, 226
ipaddr, 226
make_files, 226
make_payload, 226
RappCloud::CloudMsgs::Geolocation::Geolocation::-Response
__init__, 290
city, 291
country, 291
country_code, 291
error, 291
latitude, 291
longtitude, 291
region, 291
timezone, 292
zip, 292
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor
req, 104
resp, 104
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor::Request
imageFilepath, 216
make_files, 216
make_payload, 216
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor::Response
door_angle, 265
error, 265
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight
req, 106
resp, 106
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight::Request
imageFilepath, 232
make_files, 232
make_payload, 232
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight::Response
error, 249
light_level, 249
RappCloud::CloudMsgs::HumanDetection::Human-Detection
__init__, 112
req, 112
resp, 112
RappCloud::CloudMsgs::HumanDetection::Human-Detection::Request
imageFilepath, 191
make_files, 191
make_payload, 191
RappCloud::CloudMsgs::HumanDetection::Human-Detection::Response
error, 282
humans, 282
RappCloud::CloudMsgs::NewsExplore::NewsExplore
__init__, 124
req, 124
resp, 124
RappCloud::CloudMsgs::NewsExplore::NewsExplore::-Request

exclude_titles, 203
keywords, 203
make_files, 203
make_payload, 203
news_engine, 203
num_news, 203
region, 203
topic, 204
RappCloud::CloudMsgs::NewsExplore::NewsExplore::-Response
error, 267
news_stories, 267
RappCloud::CloudMsgs::ObjectRecognitionCaffe::-ObjectRecognitionCaffe
req, 128
resp, 128
RappCloud::CloudMsgs::ObjectRecognitionCaffe::-ObjectRecognitionCaffe::Request
imageFilepath, 212
make_files, 212
make_payload, 212
RappCloud::CloudMsgs::ObjectRecognitionCaffe::-ObjectRecognitionCaffe::Response
error, 271
object_class, 271
RappCloud::CloudMsgs::OntologyIsSubsuperclass::-OntologyIsSubsuperclass
req, 138
resp, 138
RappCloud::CloudMsgs::OntologyIsSubsuperclass::-OntologyIsSubsuperclass::Request
child_class, 218
make_files, 218
make_payload, 218
parent_class, 218
recursive, 219
RappCloud::CloudMsgs::OntologyIsSubsuperclass::-OntologyIsSubsuperclass::Response
error, 256
result, 256
RappCloud::CloudMsgs::OntologySubclasses::Ontology-Subclasses
__init__, 140
req, 140
resp, 140
RappCloud::CloudMsgs::OntologySubclasses::Ontology-Subclasses::Request
make_files, 222
make_payload, 222
ontology_class, 222
recursive, 222
RappCloud::CloudMsgs::OntologySubclasses::Ontology-Subclasses::Response
error, 278
results, 278
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses
__init__, 141
req, 142
resp, 142
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Request
make_files, 224
make_payload, 224
ontology_class, 224
recursive, 224
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Response
error, 247
results, 247
RappCloud::CloudMsgs::PathPlanningPlan2D::Path-PlanningPlan2D
req, 145
resp, 145
RappCloud::CloudMsgs::PathPlanningPlan2D::Path-PlanningPlan2D::Request
algorithm, 194
make_files, 193
make_payload, 193
map_name, 194
pose_goal, 194
pose_start, 194
robot_type, 194
RappCloud::CloudMsgs::PathPlanningPlan2D::Path-PlanningPlan2D::Response
error, 280
path, 280
plan_found, 280
RappCloud::CloudMsgs::PathPlanningUploadMap::-PathPlanningUploadMap
req, 147
resp, 147
RappCloud::CloudMsgs::PathPlanningUploadMap::-PathPlanningUploadMap::Request
make_files, 236
make_payload, 236
map_name, 236
png_file, 236
yaml_file, 236
RappCloud::CloudMsgs::PathPlanningUploadMap::-PathPlanningUploadMap::Response
error, 272
RappCloud::CloudMsgs::QrDetection::QrDetection
__init__, 160
req, 161
resp, 161
RappCloud::CloudMsgs::QrDetection::QrDetection::-Request
imageFilepath, 234
make_files, 233
make_payload, 234
RappCloud::CloudMsgs::QrDetection::QrDetection::-Response
error, 242
qr_centers, 242
qr_messages, 242

RappCloud::CloudMsgs::SetNoiseProfile::SetNoise-
Profile
req, 305
resp, 305
RappCloud::CloudMsgs::SetNoiseProfile::SetNoise-
Profile::Request
audio_source, 240
audiofile, 240
make_files, 240
make_payload, 240
RappCloud::CloudMsgs::SetNoiseProfile::SetNoise-
Profile::Response
error, 288
RappCloud::CloudMsgs::SpeechRecognitionGoogle::-
SpeechRecognitionGoogle
req, 312
resp, 312
RappCloud::CloudMsgs::SpeechRecognitionGoogle::-
SpeechRecognitionGoogle::Request
audio_source, 187
audiofile, 187
language, 187
make_files, 186
make_payload, 186
RappCloud::CloudMsgs::SpeechRecognitionGoogle::-
SpeechRecognitionGoogle::Response
alternatives, 258
error, 258
words, 258
RappCloud::CloudMsgs::SpeechRecognitionSphinx::-
SpeechRecognitionSphinx
req, 314
resp, 314
RappCloud::CloudMsgs::SpeechRecognitionSphinx::-
SpeechRecognitionSphinx::Request
audio_source, 189
audiofile, 189
grammar, 189
language, 189
make_files, 189
make_payload, 189
sentences, 190
words, 190
RappCloud::CloudMsgs::SpeechRecognitionSphinx::-
SpeechRecognitionSphinx::Response
error, 274
words, 274
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech
__init__, 325
req, 326
resp, 326
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech-
::Request
language, 196
make_files, 196
make_payload, 196
text, 196
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech-
::Response
basename, 253
encoding, 253
error, 254
get_audio_raw, 253
payload, 254
store_audio, 253
RappCloud::CloudMsgs::WeatherReportCurrent::-
WeatherReportCurrent
req, 340
resp, 340
RappCloud::CloudMsgs::WeatherReportCurrent::-
WeatherReportCurrent::Request
city, 198
make_files, 198
make_payload, 198
metric, 198
weather_reporter, 199
RappCloud::CloudMsgs::WeatherReportCurrent::-
WeatherReportCurrent::Response
date, 245
error, 245
humidity, 245
pressure, 245
temperature, 245
visibility, 245
weather_description, 245
wind_direction, 245
wind_speed, 245
wind_temperature, 245
RappCloud::CloudMsgs::WeatherReportForecast::-
WeatherReportForecast
req, 341
resp, 341
RappCloud::CloudMsgs::WeatherReportForecast::-
WeatherReportForecast::Request
city, 201
make_files, 200
make_payload, 200
metric, 201
weather_reporter, 201
RappCloud::CloudMsgs::WeatherReportForecast::-
WeatherReportForecast::Response
error, 269
forecast, 269
RappCloud::Objects::File::File
__boundarySize, 94
__eq__, 93
__init__, 93
__path, 94
__postfield, 94
make_tuple, 93
path, 93
postfield, 94
serialize, 94
RappCloud::Objects::Payload::Payload
__eq__, 148

__init__, 148
append, 148
make_json, 148
remove, 148
serialize, 150
RappCloud::RappPlatformApi::RappPlatformAPI
__init__, 165
cognitiveExerciseSelect, 165
cognitiveGetHistory, 166
cognitiveGetScores, 166
cognitiveRecordPerformance, 166
emailFetch, 167
emailSend, 168
faceDetection, 168
geolocation, 169
hazardDetectionDoor, 169
hazardDetectionLights, 169
humanDetection, 171
newsExplore, 171
objectRecognitionCaffe, 172
ontologyIsSubsuperclass, 172
ontologySubclasses, 172
ontologySuperclasses, 173
pathPlanningPlan2D, 173
pathPlanningUploadMap, 174
qrDetection, 174
setNoiseProfile, 174
speechRecognitionGoogle, 176
speechRecognitionSphinx, 176
svc_caller, 178
textToSpeech, 177
weatherReportCurrent, 177
weatherReportForecast, 178
RappCloud::Service::RappPlatformService::RappPlatformService
__cloudObj, 182
__controller, 182
__controllerAsync, 182
__init__, 180
__load_platform_cfg, 180
__persistent, 182
__platformParams, 182
__timeout, 182
_make_url, 180
call, 181
call_async, 181
persistent, 181
req, 181
resp, 181
timeout, 181
RappCloud::ServiceController::Adapters::SSL23Adapter
__init__, 316
RappCloud::ServiceController::Adapters::SSL2Adapter
__init__, 317
RappCloud::ServiceController::Adapters::SSL3Adapter
__init__, 319
RappCloud::ServiceController::Adapters::SSLAdapter
__init__, 320
init_poolmanager, 320
poolmanager, 320
ssl_version, 320
RappCloud::ServiceController::Adapters::SSLDef
SSLv2, 321
SSLv2_3, 321
SSLv3, 321
TLSv1, 321
TLSv1_1, 321
TLSv1_2, 321
RappCloud::ServiceController::Adapters::TLS11Adapter
__init__, 327
RappCloud::ServiceController::Adapters::TLS12Adapter
__init__, 329
RappCloud::ServiceController::Adapters::TLS1Adapter
__init__, 330
RappCloud::ServiceController::Adapters::TLSAdapter
__init__, 332
RappCloud::ServiceController::AsyncHandler::AsyncHandler
__future, 47
__init__, 47
wait, 47
RappCloud::ServiceController::RAPPAuth::RAPPAuth
_token, 163
_tokenStoreDir, 164
RappCloud::ServiceController::ServiceControllerAsync::ServiceControllerAsync
__threadPool, 296
_worker_exec, 296
run_job, 296
RappCloud::ServiceController::ServiceControllerBase::ServiceControllerBase
__auth, 299
__customHeaders, 300
__mount_adapters, 298
_post_persistent, 298
_post_session_once, 298
_service, 300
basename, 298
handle_exception, 299
is_json, 299
post_request, 299
run_job, 299
session_, 300
RappCloud::ServiceController::ServiceControllerSync::ServiceControllerSync
run_job, 301
RappCloud::Utils::DatatypeAssert
add_to_args, 25
add_to_kwargs, 25
datatypeassert, 25
RappCloud::Utils::Net::Net
ipaddr_connected, 120
RappCloud::Utils::RandStrGen::RandStrGen

create, 161
read_bytes
rapp::object::audio, 50
recipients
RappCloud::CloudMsgs::EmailSend::EmailSend::-Request, 207
records
RappCloud::CloudMsgs::CognitiveGetHistory::-CognitiveGetHistory::Response, 263
recursive
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass::Request, 219
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses::Request, 222
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Request, 224
region
RappCloud::CloudMsgs::Geolocation::Geolocation-::Response, 291
RappCloud::CloudMsgs::NewsExplore::News-Explore::Request, 203
remove
RappCloud::Objects::Payload::Payload, 148
req
RappCloud::CloudMsgs::CognitiveExerciseSelect-::CognitiveExerciseSelect, 69
RappCloud::CloudMsgs::CognitiveGetHistory::-CognitiveGetHistory, 71
RappCloud::CloudMsgs::CognitiveGetScores::-CognitiveGetScores, 73
RappCloud::CloudMsgs::CognitiveRecordPerformance-::CognitiveRecordPerformance, 75
RappCloud::CloudMsgs::EmailFetch::EmailFetch, 81
RappCloud::CloudMsgs::EmailSend::EmailSend, 83
RappCloud::CloudMsgs::FaceDetection::Face-Detection, 89
RappCloud::CloudMsgs::Geolocation::Geolocation, 96
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor, 104
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight, 106
RappCloud::CloudMsgs::HumanDetection::-HumanDetection, 112
RappCloud::CloudMsgs::NewsExplore::News-Explore, 124
RappCloud::CloudMsgs::ObjectRecognitionCaffe-::ObjectRecognitionCaffe, 128
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass, 138
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses, 140
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses, 142
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D, 145
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap, 147
RappCloud::CloudMsgs::QrDetection::QrDetection, 161
RappCloud::CloudMsgs::SetNoiseProfile::Set-NoiseProfile, 305
RappCloud::CloudMsgs::SpeechRecognition-Google::SpeechRecognitionGoogle, 312
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx, 314
RappCloud::CloudMsgs::TextToSpeech::TextTo-Speech, 326
RappCloud::CloudMsgs::WeatherReportCurrent::-WeatherReportCurrent, 340
RappCloud::CloudMsgs::WeatherReportForecast-::WeatherReportForecast, 341
RappCloud::Service::RappPlatformService::Rapp-PlatformService, 181
request_
rapp::cloud::asio_handler, 32
reset
rapp::cloud::asio_service_http, 36
rapp::cloud::asio_socket_https, 45
resol_
rapp::cloud::service_controller, 294
resp
RappCloud::CloudMsgs::CognitiveExerciseSelect-::CognitiveExerciseSelect, 69
RappCloud::CloudMsgs::CognitiveGetHistory::-CognitiveGetHistory, 71
RappCloud::CloudMsgs::CognitiveGetScores::-CognitiveGetScores, 73
RappCloud::CloudMsgs::CognitiveRecordPerformance-::CognitiveRecordPerformance, 75
RappCloud::CloudMsgs::EmailFetch::EmailFetch, 81
RappCloud::CloudMsgs::EmailSend::EmailSend, 83
RappCloud::CloudMsgs::FaceDetection::Face-Detection, 89
RappCloud::CloudMsgs::Geolocation::Geolocation, 96
RappCloud::CloudMsgs::HazardDetectionDoor::-HazardDetectionDoor, 104
RappCloud::CloudMsgs::HazardDetectionLight::-HazardDetectionLight, 106
RappCloud::CloudMsgs::HumanDetection::-HumanDetection, 112
RappCloud::CloudMsgs::NewsExplore::News-Explore, 124
RappCloud::CloudMsgs::ObjectRecognitionCaffe-::ObjectRecognitionCaffe, 128
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass, 138
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses, 140
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses, 142

RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D, 145
RappCloud::CloudMsgs::PathPlanningUploadMap-::PathPlanningUploadMap, 147
RappCloud::CloudMsgs::QrDetection::QrDetection, 161
RappCloud::CloudMsgs::SetNoiseProfile::Set-NoiseProfile, 305
RappCloud::CloudMsgs::SpeechRecognition-Google::SpeechRecognitionGoogle, 312
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx, 314
RappCloud::CloudMsgs::TextToSpeech::TextTo-Speech, 326
RappCloud::CloudMsgs::WeatherReportCurrent::-WeatherReportCurrent, 340
RappCloud::CloudMsgs::WeatherReportForecast-::WeatherReportForecast, 341
RappCloud::Service::RappPlatformService::Rapp-PlatformService, 181
response_
rapp::cloud::asio_handler, 32
result
RappCloud::CloudMsgs::OntologyIsSubsuperclass-::OntologyIsSubsuperclass::Response, 256
results
RappCloud::CloudMsgs::OntologySubclasses::-OntologySubclasses::Response, 278
RappCloud::CloudMsgs::OntologySuperclasses::-OntologySuperclasses::Response, 247
robot_type
RappCloud::CloudMsgs::PathPlanningPlan2D::-PathPlanningPlan2D::Request, 194
run_job
rapp::cloud::service_controller, 293
RappCloud::ServiceController::ServiceController-Async::ServiceControllerAsync, 296
RappCloud::ServiceController::ServiceController-Base::ServiceControllerBase, 299
RappCloud::ServiceController::ServiceController-Sync::ServiceControllerSync, 301
run_jobs
rapp::cloud::service_controller, 293

SSLv2
RappCloud::ServiceController::Adapters::SSLDef, 321
SSLv2_3
RappCloud::ServiceController::Adapters::SSLDef, 321
SSLv3
RappCloud::ServiceController::Adapters::SSLDef, 321
save
rapp::object::audio, 50
rapp::object::picture, 152
schedule
rapp::cloud::asio_service_http, 36
rapp::cloud::asio_socket, 40
rapp::cloud::asio_socket_https, 45
score
RappCloud::CloudMsgs::CognitiveRecordPerformance-::CognitiveRecordPerformance::Request, 238
scores
RappCloud::CloudMsgs::CognitiveGetScores::-CognitiveGetScores::Response, 283
sentences
RappCloud::CloudMsgs::SpeechRecognition-Sphinx::SpeechRecognitionSphinx::Request, 190
serialize
RappCloud::CloudMsgs::Cloud::CloudRequest, 56
RappCloud::CloudMsgs::Cloud::CloudResponse, 58
RappCloud::Objects::File::File, 94
RappCloud::Objects::Payload::Payload, 150
server
RappCloud::CloudMsgs::EmailFetch::EmailFetch::-Request, 230
RappCloud::CloudMsgs::EmailSend::EmailSend::-Request, 207
service_controller
rapp::cloud::service_controller, 293
session_
RappCloud::ServiceController::ServiceController-Base::ServiceControllerBase, 300
set
RappCloud::CloudMsgs::Cloud::CloudRequest, 56
RappCloud::CloudMsgs::Cloud::CloudResponse, 58
set_denoise_example.cpp
main, 346
set_denoise_profile
rapp::cloud::set_denoise_profile, 303
setNoiseProfile
RappCloud::RappPlatformApi::RappPlatformAPI, 174
socket_
rapp::cloud::asio_service_http, 38
speech_detection_google
rapp::cloud::speech_detection_google, 307
speech_detection_sphinx4
rapp::cloud::speech_detection_sphinx4, 310
speech_to_text.cpp
load_jsgf, 347
main, 347
operator<<, 347
speechRecognitionGoogle
RappCloud::RappPlatformApi::RappPlatformAPI, 176
speechRecognitionSphinx
RappCloud::RappPlatformApi::RappPlatformAPI, 176
ssl_version
RappCloud::ServiceController::Adapters::SSL-Adapter, 320
stop

rapp::cloud::service_controller, 293
store_audio
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech::Response, 253
strip_header
rapp::cloud::asio_handler, 31
subject
RappCloud::CloudMsgs::EmailSend::EmailSend::Request, 207
svc_caller
RappCloud::RappPlatformApi::RappPlatformAPI, 178
svcname
RappCloud::CloudMsgs::Cloud::CloudMsg, 54

TLSv1
RappCloud::ServiceController::Adapters::SSLDef, 321
TLSv1_1
RappCloud::ServiceController::Adapters::SSLDef, 321
TLSv1_2
RappCloud::ServiceController::Adapters::SSLDef, 321
temperature
RappCloud::CloudMsgs::WeatherReportCurrent::WeatherReportCurrent::Response, 245
test_classes
RappCloud::CloudMsgs::CognitiveGetScores::CognitiveGetScores::Response, 283
test_diff
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Request, 209
test_index
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Request, 209
test_instance
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Response, 286
RappCloud::CloudMsgs::CognitiveRecordPerformance::CognitiveRecordPerformance::Request, 238
test_subtype
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Request, 210
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Response, 286
test_type
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Request, 210
RappCloud::CloudMsgs::CognitiveExerciseSelect::CognitiveExerciseSelect::Response, 286
RappCloud::CloudMsgs::CognitiveGetHistory::CognitiveGetHistory::Request, 184
RappCloud::CloudMsgs::CognitiveGetScores::CognitiveGetScores::Request, 214
text
RappCloud::CloudMsgs::TextToSpeech::TextToSpeech::Request, 196
text_to_speech
rapp::cloud::text_to_speech, 323
text_to_speech.cpp
main, 348
textToSpeech
RappCloud::RappPlatformApi::RappPlatformAPI, 177
time_from
RappCloud::CloudMsgs::CognitiveGetHistory::CognitiveGetHistory::Request, 184
time_to
RappCloud::CloudMsgs::CognitiveGetHistory::CognitiveGetHistory::Request, 185
RappCloud::CloudMsgs::CognitiveGetScores::CognitiveGetScores::Request, 214
timeout
RappCloud::Service::RappPlatformService::RappPlatformService, 181
timer_
rapp::cloud::asio_handler, 32
timezone
RappCloud::CloudMsgs::Geolocation::Geolocation::Response, 292
tls_socket_
rapp::cloud::asio_socket_https, 45
token_
rapp::cloud::asio_handler, 32
top_left_x__
rapp::object::face, 85
rapp::object::human, 108
top_left_y__
rapp::object::face, 85
rapp::object::human, 108
topic
RappCloud::CloudMsgs::NewsExplore::NewsExplore::Request, 204
type
rapp::object::picture, 152

verify_certificate
rapp::cloud::asio_socket_https, 45
visibility
RappCloud::CloudMsgs::WeatherReportCurrent::WeatherReportCurrent::Response, 245

wait
RappCloud::ServiceController::AsyncHandler::AsyncHandler, 47
wav_file
rapp::cloud::plan_path_2d, 154
rapp::cloud::text_to_speech, 323
weather_description
RappCloud::CloudMsgs::WeatherReportCurrent::WeatherReportCurrent::Response, 245
weather_report_current
rapp::cloud::weather_report_current, 334
weather_report_forecast
rapp::cloud::weather_report_forecast, 337
weather_reporter

RappCloud::CloudMsgs::WeatherReportCurrent::-
WeatherReportCurrent::Request, 199
RappCloud::CloudMsgs::WeatherReportForecast-
::WeatherReportForecast::Request, 201
weatherReportCurrent
RappCloud::RappPlatformApi::RappPlatformAPI,
177
weatherReportForecast
RappCloud::RappPlatformApi::RappPlatformAPI,
178
wind_direction
RappCloud::CloudMsgs::WeatherReportCurrent::-
WeatherReportCurrent::Response, 245
wind_speed
RappCloud::CloudMsgs::WeatherReportCurrent::-
WeatherReportCurrent::Response, 245
wind_temperature
RappCloud::CloudMsgs::WeatherReportCurrent::-
WeatherReportCurrent::Response, 245
words
RappCloud::CloudMsgs::SpeechRecognition-
Google::SpeechRecognitionGoogle::Response,
258
RappCloud::CloudMsgs::SpeechRecognition-
Sphinx::SpeechRecognitionSphinx::Request,
190
RappCloud::CloudMsgs::SpeechRecognition-
Sphinx::SpeechRecognitionSphinx::Response,
274

yaml_file
RappCloud::CloudMsgs::PathPlanningUploadMap-
::PathPlanningUploadMap::Request, 236

zip
RappCloud::CloudMsgs::Geolocation::Geolocation-
::Response, 292