## Doxygen Protobuf File Documentation

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## **Chapter 1**

## **Protobuf Files**

## **Primer From Google**

The main gRPC webpage at <a href="https://grpc.io">https://grpc.io</a> is a good resource for basic information about gRPC. As a primer, the link below talks about concepts relating to grpc, protobuf, and streaming.

https://grpc.io/docs/what-is-grpc/core-concepts/

### **Protobuf File Overview**

The files in this folder are the 'uncompiled' protobuf files which define the messages and services which make up the BRIAR API. Using build-proto-stubs.sh in the repo's root folder, these .proto files can be compiled into stubs of multiple languages which will be used by both the BRIAR client and services which implement performer algorithms. Linked below are the three protobuf files defining the API

- · briar.proto
- · briar\_service.proto
- · briar\_error.proto

#### briar.proto

This file defines the messages which represent objects such as detections, rectangles, and other pieces of information which need to be sent between clients and services. These objects will be contained inside the request and reply messages sent by the service and will not be sent between clients and services without an outer request or reply wrapper. Aside from those few details, these messages are not particularly remarkable and should be reasonably self documenting.

2 Protobuf Files

### briar\_service.proto

This file contains definitions for the BRIAR Service which defines the methods which the clients can invoke in services and the arguments they can pass between each other.

In BRIARService, you will notice multiple lines starting with 'rpc'. These define which methods are special 'gRPC methods' which can be invoked by the client. Upon compilation, the protobuf files will create BRIARServiceStub and BRIARServiceServicer classes, the former serves as the method calls for the client, and the latter which serves as the inheritable class for the service.

On the client side, after connecting a channel and initializing the stub, the stub can run a method on the service as simply as calling the method with an appropriate request as an argument. For example:

reply = stub.status(status\_request)

where 'status\_request' is an initialized StatusRequest class. This will run the code inside the status method in the service, which should return a 'StatusReply' which will then be assigned to the variable 'reply'

This will be different for rpc lines marked with the 'stream' argument in either the method field and/or the 'returns' field, which means the data will be streamed unilaterally or bi-laterally depending on which fields have the 'stream' decleration.

#### briar\_error.proto

A simple error class for storing error information which can be returned as an argument in any of the reply messages. Used for telling the client that the service experienced a handled error and providing relevant details, especially since gRPC's error messages can be needlessly confounding at times

# Chapter 2

# File Index

## 2.1 File List

Here is a list of all files with brief descriptions:

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briar_service.proto														 					43

File Index

## **Chapter 3**

## **File Documentation**

## 3.1 briar.proto File Reference

#### **Enumerations**

- enum BriarServiceStatus { BUSY = 3 }
- enum ExtractFlags { EXTRACT\_PROVIDED\_DETECTION = 2 }
- enum VerifyFlags { VERIFY\_PROVIDED\_TEMPLATES = 3 }
- enum DataType { SOURCE\_ONLY = 20 }
- enum EntryType { ENTRY\_TYPE\_MEDIA = 2 }
- enum BriarDataType { BUFFER = 14 }
- enum FeatureVectorType { BriarDouble = 9 }

#### **Variables**

- syntax = "proto3"
- option csharp\_namespace = "briar.BriarGrpc"
- package briar
- enum ExtractFlags ENROLL\_FULL\_IMAGE = 0
- ENROLL AUTO DETECTION = 1
- ENROLL\_PROVIDED\_DETECTION = 2
- ENROLL\_PROVIDED\_TEMPLATE = 3
- enum VerifyFlags SEARCH\_FULL\_IMAGE = 0
- SEARCH\_AUTO\_DETECTION = 1
- SEARCH\_PROVIDED\_DETECTIONS = 2
- SEARCH\_PROVIDED\_TEMPLATES = 3
- message APIVersion
- int32 minor = 2
- int32 patch = 3
- message StringOption
- string value = 2
- message BoolOption
- message IntOption
- message FloatOption
- message BriarMedia
- int32 height = 2
- int32 channels = 3

- int32 frame count = 4
- int32 frame start = 5
- int32 frame\_end = 6
- float frame\_rate = 7
- int32 segment id = 8
- int32 segment\_total = 9
- int32 frame number = 10
- DataType type = 11
- DataType source\_type = 12
- bytes **data** = 13
- string source = 14
- string serverside source = 15
- string description = 16
- string datetime = 17
- bool isCropped = 18
- repeated MediaMetadata metadata = 19
- message EnrollOptions
- BoolOption debug = 2
- EntryType entry\_type = 3
- repeated string subject\_ids = 4
- string media\_id = 5
- IntOption enroll\_batch = 7
- EnrollFlags enroll flag = 8
- BiometricModality modality = 9
- BoolOption return media = 10
- BoolOption store\_media = 11
- repeated Attribute attributes = 12
- BoolOption use\_subject\_integer\_id = 15
- IntOption subject\_id\_integer = 16
- message SearchOptions
- StringOption output\_type = 2
- StringOption search database = 3
- StringOption probe\_database = 4
- FloatOption search\_threshold = 5
- IntOption max\_results = 6
- IntOption search\_batch = 7
- BoolOption use\_detections = 8
- BoolOption use\_templates = 9
- SearchFlags flag = 10
- BoolOption full = 13
- BoolOption return matrix = 14
- message VerifyOptions
- BoolOption use\_whole\_image = 10
- enum EntryType UNSPECIFIED = 0
- WHOLE BODY = 1
- FACE = 2
- GAIT = 3
- BODY = 4
- ANTHROPOMETRY = 5
- **HEAD** = 6
- BEHAVIOR = 7
- SOFT\_BIOMETRICS = 8
- FINGERPRINT = 9
- IRIS = 10
- VOICE = 11

- HAND = 12
- EAR = 13
- PALM = 14
- OTHER = 15
- message BriarRect
- int32 y = 2
- int32 width = 3
- message BriarPoint2D
- message BriarProgress
- int64 totalSteps = 2
- message BriarVector
- message BriarMatrix
- repeated string row\_headers = 2
- repeated int32 column headers integer = 3
- repeated int32 row\_headers\_integer = 4
- repeated string column sources = 5
- repeated string row\_sources = 6
- repeated Attribute column attributes = 7
- repeated Attribute row\_attributes = 8
- repeated BriarVector rows = 9
- message Attribute
- bytes buffer = 3
- float fvalue = 4
- int32 ivalue = 5
- string text = 6
- bytes pickle = 7
- bytes json = 8
- BriarMatrix matrix = 9
- BriarVector vector = 10
- BriarMedia media = 11
- BriarPoint2D point = 12
- BriarRect rect = 13
- bytes xml = 14
- message FrameMetadata
- message MediaMetadata
- repeated FrameMetadata frame\_metadata = 2
- message Detection
- BriarRect location = 2
- int32 frame = 3
- int64 detection id = 4
- int64 tracklet id = 5
- string detection\_class = 6
- BriarMedia mask = 8
- message Tracklet
- string tracklet\_class = 3
- TrackingOptions options = 5
- message DetectionOptions
- BoolOption best = 2
- FloatOption face\_threshold = 3
- FloatOption body\_threshold = 4
- IntOption face\_min\_height = 5
- IntOption body\_min\_height = 6
- IntOption detect\_batch = 7
- BoolOption enable\_metadata = 8
- TrackingOptions tracking\_options = 11

- message TrackingOptions
- BoolOption tracking\_disable = 2
- FloatOption threshold = 3
- IntOption tracking batch = 4
- message EnhanceOptions
- IntOption enhance\_batch = 3
- bool cropped = 5
- message ExtractOptions
- IntOption extract\_batch = 4
- enum BriarDataType im = 1
- repeated BriarRect detections = 2
- message TemplateData
- string submodality = 16
- string source id = 17
- · message Template
- int64 associated detection id = 2
- int64 associated tracklet id = 3
- string algorithm = 4
- repeated TemplateData parts = 5
- message TemplateList
- message TemplateListGroup
- message EnrollmentInfo
- string subject id = 3
- string name = 5
- · message Record
- string entry\_id = 2
- string notes = 8
- map< string, BriarMedia > media previews = 9
- map< string, BriarMedia > subject\_previews = 10
- Detection detection = 14
- string templates = 11
- string tracklets = 12
- message RecordList
- · message SearchMatchInfo
- float theoretical\_min = 2
- float theoretical\_max = 3
- string subject\_id\_probe = 4
- string subject\_id\_gallery = 5
- string entry\_id\_probe = 8
- string entry\_id\_gallery = 9
- string subject name = 7
- BriarMedia face = 11
- BriarMedia body = 12
- BriarMedia gate = 13
- bool uses\_integer\_subject\_id\_gallery = 14
- int32 integer\_subject\_id\_gallery = 15
- · message VerifyMatchInfo
- string subject\_id\_verify = 4
- string subject\_id\_reference = 5
- string entry\_id\_reference = 6
- string entry id verification = 7
- bool uses\_integer\_gallery\_id = 13
- message SearchMatchList
- message VerifyMatchList
- message BriarDatabase

- · message BriarDatabaseInfo
- int64 entry\_count = 2
- int64 template\_count = 3
- int64 failed\_enrollment\_count = 4
- float total\_database\_size = 5
- float average\_entry\_size = 6
- repeated BiometricModality modalities = 9
- repeated string entry\_ids = 11
- repeated int32 templates\_per\_entry = 12
- repeated float entry\_sizes = 13
- message TemplateIds
- int32 length = 2
- message ClusterIds
- message ClusterConfidence
- message BriarDuration
- double end = 2
- message BriarDurations
- BriarDuration client\_duration\_frame\_level = 2
- BriarDuration grpc\_outbound\_transfer\_duration = 3
- BriarDuration grpc\_inbound\_transfer\_duration = 4
- BriarDuration service duration = 5
- map< string, BriarDuration > sub\_durations = 6
- BriarDuration total\_duration = 7
- message BriarDurationsList

### 3.1.1 Enumeration Type Documentation

#### 3.1.1.1 BriarDataType

enum BriarDataType

**Enumerator** 

BUFFER

#### 3.1.1.2 BriarServiceStatus

enum BriarServiceStatus

**Enumerator** 

BUSY

3.1.1.3 DataType
------------------

enum DataType

Enumerator

SOURCE\_ONLY

## 3.1.1.4 EntryType

enum EntryType

Enumerator

ENTRY\_TYPE\_MEDIA

## 3.1.1.5 ExtractFlags

enum ExtractFlags

Enumerator

EXTRACT\_PROVIDED\_DETECTION

### 3.1.1.6 FeatureVectorType

enum FeatureVectorType

Enumerator

BriarDouble

## 3.1.1.7 VerifyFlags

enum VerifyFlags

Enumerator

VERIFY\_PROVIDED\_TEMPLATES

### 3.1.2 Variable Documentation

## 3.1.2.1 algorithm

```
string algorithm = 4
```

#### 3.1.2.2 ANTHROPOMETRY

```
ANTHROPOMETRY = 5
```

#### 3.1.2.3 APIVersion

```
message APIVersion
```

### Initial value:

```
int32 major = 1
```

## 3.1.2.4 associated\_detection\_id

```
int64 associated_detection_id = 2
```

#### 3.1.2.5 associated\_tracklet\_id

```
int64 associated\_tracklet\_id = 3
```

## 3.1.2.6 Attribute

```
message Attribute

Initial value:
{
    string key = 1
```

## 3.1.2.7 attributes

```
repeated Attribute attributes = 12
```

## 3.1.2.8 average\_entry\_size

```
float average_entry_size = 6
```

## **3.1.2.9 BEHAVIOR**

```
BEHAVIOR = 7
```

### 3.1.2.10 best

```
BoolOption best = 2
```

## 3.1.2.11 BODY

BODY = 4

## 3.1.2.12 body

BriarMedia body = 12

### 3.1.2.13 body\_min\_height

```
IntOption body_min_height = 6
```

## 3.1.2.14 body\_threshold

```
FloatOption body_threshold = 4
```

### 3.1.2.15 BoolOption

```
message BoolOption
```

#### Initial value:

```
bool override_default = 1
```

### 3.1.2.16 briar

package briar

### 3.1.2.17 BriarDatabase

```
message BriarDatabase
```

#### Initial value:

```
string name = 1
```

## 3.1.2.18 BriarDatabaseInfo

```
message BriarDatabaseInfo
```

#### Initial value:

```
string name = 1
```

## 3.1.2.19 BriarDuration

```
message BriarDuration

Initial value:
{
    double start = 1
```

### 3.1.2.20 BriarDurations

```
message BriarDurations

Initial value:
{
    BriarDuration client_duration_file_level = 1
```

## 3.1.2.21 BriarDurationsList

```
message BriarDurationsList
```

#### Initial value:

```
repeated BriarDurations durations_list = 1
```

## 3.1.2.22 BriarMatrix

```
message BriarMatrix

Initial value:
{
    repeated string column_headers = 1
```

## 3.1.2.23 BriarMedia

```
message BriarMedia

Initial value:
{
    int32 width = 1
```

### 3.1.2.24 BriarPoint2D

```
message BriarPoint2D

Initial value:
{
    float x = 1
```

## 3.1.2.25 BriarProgress

```
message BriarProgress

Initial value:
{
    int64 currentStep = 1
```

### 3.1.2.26 BriarRect

```
message BriarRect
Initial value:
{
   int32 x = 1
```

## 3.1.2.27 BriarVector

```
message BriarVector

Initial value:
{
    repeated float data = 1
```

## 3.1.2.28 buffer

bytes buffer = 3

## 3.1.2.29 channels

int32 channels = 3

## 3.1.2.30 client\_duration\_frame\_level

```
BriarDuration client_duration_frame_level = 2
```

### 3.1.2.31 ClusterConfidence

```
message ClusterConfidence
```

#### Initial value:

```
double confidences = 1
```

### 3.1.2.32 ClusterIds

```
message ClusterIds
```

#### Initial value:

```
repeated string ids = 1
```

### 3.1.2.33 column\_attributes

```
repeated Attribute column_attributes = 7
```

## 3.1.2.34 column\_headers\_integer

```
repeated int32 column_headers_integer = 3
```

## 3.1.2.35 column\_sources

```
repeated string column_sources = 5
```

### 3.1.2.36 cropped

```
bool cropped = 5
```

### 3.1.2.37 csharp\_namespace

```
option csharp_namespace = "briar.BriarGrpc"
```

#### 3.1.2.38 data

```
BriarVector data = 13
```

### 3.1.2.39 datetime

```
string datetime = 17
```

## 3.1.2.40 debug

```
BoolOption debug = 2
```

## 3.1.2.41 description

```
string description = 16
```

## 3.1.2.42 detect\_batch

```
IntOption detect_batch = 7
```

### 3.1.2.43 **Detection**

```
message Detection

Initial value:
{
    float confidence = 1
```

### 3.1.2.44 detection

```
Detection detection = 14
```

## 3.1.2.45 detection\_class

```
string detection_class = 6
```

## 3.1.2.46 detection\_id

```
int64 detection_id = 4
```

## 3.1.2.47 DetectionOptions

```
message DetectionOptions

Initial value:
{
    StringOption algorithm_id = 1
```

### **3.1.2.48 detections**

```
repeated BriarRect detections = 2
```

## 3.1.2.49 EAR

EAR = 13

## 3.1.2.50 enable\_metadata

```
BoolOption enable_metadata = 8
```

### 3.1.2.51 end

```
double end = 2
```

### 3.1.2.52 enhance\_batch

```
IntOption enhance_batch = 3
```

### 3.1.2.53 EnhanceOptions

```
message EnhanceOptions
```

#### Initial value:

```
StringOption algorithm_id = 1
```

## 3.1.2.54 ENROLL\_AUTO\_DETECTION

```
ENROLL_AUTO_DETECTION = 1
```

## 3.1.2.55 enroll\_batch

```
IntOption enroll_batch = 7
```

### 3.1.2.56 enroll\_flag

```
EnrollFlags enroll_flag = 8
```

## 3.1.2.57 ENROLL\_FULL\_IMAGE

```
enum ExtractFlags ENROLL_FULL_IMAGE = 0
```

## 3.1.2.58 ENROLL\_PROVIDED\_DETECTION

```
ENROLL_PROVIDED_DETECTION = 2
```

## 3.1.2.59 ENROLL\_PROVIDED\_TEMPLATE

```
ENROLL_PROVIDED_TEMPLATE = 3
```

### 3.1.2.60 EnrollmentInfo

```
message EnrollmentInfo
```

#### Initial value:

```
string database_id = 1
```

#### 3.1.2.61 EnrollOptions

```
message EnrollOptions
```

## Initial value:

```
BoolOption save_metadata = 1
```

## 3.1.2.62 entry\_count

```
int64 entry_count = 2
```

## 3.1.2.63 entry\_id

```
string entry_id = 2
```

## 3.1.2.64 entry\_id\_gallery

```
string entry_id_gallery = 9
```

## 3.1.2.65 entry\_id\_probe

```
string entry_id_probe = 8
```

## 3.1.2.66 entry\_id\_reference

```
string entry_id_reference = 6
```

## 3.1.2.67 entry\_id\_verification

```
string entry_id_verification = 7
```

## 3.1.2.68 entry\_ids

```
repeated string entry_ids = 11
```

## 3.1.2.69 entry\_sizes

```
repeated float entry_sizes = 13
```

## 3.1.2.70 entry\_type

```
EntryType entry\_type = 3
```

### 3.1.2.71 extract\_batch

```
IntOption extract_batch = 4
```

## 3.1.2.72 ExtractOptions

```
message ExtractOptions

Initial value:
{
    StringOption algorithm_id = 1
```

### 3.1.2.73 FACE

FACE = 2

### 3.1.2.74 face

BriarMedia face = 11

## 3.1.2.75 face\_min\_height

IntOption face\_min\_height = 5

## 3.1.2.76 face\_threshold

FloatOption face\_threshold = 3

### 3.1.2.77 failed\_enrollment\_count

int64 failed\_enrollment\_count = 4

#### 3.1.2.78 FINGERPRINT

FINGERPRINT = 9

## 3.1.2.79 flag

```
ExtractFlags flag = 10
```

## 3.1.2.80 FloatOption

```
message FloatOption

Initial value:
{
    bool override_default = 1
```

#### 3.1.2.81 frame

```
int32 frame = 3
```

## 3.1.2.82 frame\_count

```
int32 frame_count = 4
```

## 3.1.2.83 frame\_end

```
int32 frame\_end = 6
```

### 3.1.2.84 frame\_metadata

```
repeated FrameMetadata frame_metadata = 2
```

## 3.1.2.85 frame\_number

```
int32 frame_number = 10
```

## 3.1.2.86 frame\_rate

```
float frame_rate = 7
```

## 3.1.2.87 frame\_start

```
int32 frame_start = 5
```

## 3.1.2.88 FrameMetadata

```
message FrameMetadata
```

#### Initial value:

```
repeated Attribute attributes = 1
```

### 3.1.2.89 full

```
BoolOption full = 13
```

### 3.1.2.90 fvalue

```
float fvalue = 4
```

## 3.1.2.91 GAIT

GAIT = 3

## 3.1.2.92 gate

BriarMedia gate = 13

### 3.1.2.93 grpc\_inbound\_transfer\_duration

```
BriarDuration grpc_inbound_transfer_duration = 4
```

### 3.1.2.94 grpc\_outbound\_transfer\_duration

```
BriarDuration grpc_outbound_transfer_duration = 3
```

### 3.1.2.95 HAND

HAND = 12

#### 3.1.2.96 HEAD

HEAD = 6

## 3.1.2.97 height

int32 height = 2

#### 3.1.2.98 im

enum BriarDataType im = 1

### 3.1.2.99 integer\_subject\_id\_gallery

int32 integer\_subject\_id\_gallery = 15

## 3.1.2.100 IntOption

```
message IntOption

Initial value:
{
    bool override_default = 1
```

## 3.1.2.101 IRIS

IRIS = 10

## 3.1.2.102 isCropped

bool isCropped = 18

## 3.1.2.103 ivalue

int32 ivalue = 5

## 3.1.2.104 json

bytes json = 8

## 3.1.2.105 length

int32 length = 2

#### 3.1.2.106 location

BriarRect location = 2

#### 3.1.2.107 mask

```
BriarMedia mask = 8
```

#### 3.1.2.108 matrix

```
BriarMatrix matrix = 9
```

### 3.1.2.109 max\_results

```
IntOption max_results = 6
```

#### 3.1.2.110 media

```
BriarMedia media = 11
```

### 3.1.2.111 media\_id

```
string media_id = 5
```

### 3.1.2.112 media\_previews

```
map<string, BriarMedia> media_previews = 9
```

#### 3.1.2.113 MediaMetadata

```
message MediaMetadata
```

#### Initial value:

```
repeated Attribute attributes = 1
```

#### 3.1.2.114 metadata

```
repeated Attribute metadata = 19
```

#### 3.1.2.115 minor

```
int32 minor = 2
```

#### 3.1.2.116 modalities

```
repeated BiometricModality modalities = 9
```

#### 3.1.2.117 modality

```
BiometricModality modality = 9
```

#### 3.1.2.118 name

```
string name = 5
```

#### 3.1.2.119 notes

```
string notes = 8
```

### 3.1.2.120 options

```
TrackingOptions options = 5
```

#### 3.1.2.121 OTHER

OTHER = 15

### 3.1.2.122 output\_type

```
StringOption output_type = 2
```

#### 3.1.2.123 PALM

PALM = 14

#### 3.1.2.124 parts

```
repeated TemplateData parts = 5
```

#### 3.1.2.125 patch

int32 patch = 3

### 3.1.2.126 pickle

bytes pickle = 7

### 3.1.2.127 point

BriarPoint2D point = 12

### 3.1.2.128 probe\_database

StringOption probe\_database = 4

#### 3.1.2.129 Record

```
message Record

Initial value:
{
    BriarDatabase database_id = 1
```

#### 3.1.2.130 RecordList

```
message RecordList

Initial value:
{
    repeated Record records = 1
```

#### 3.1.2.131 rect

```
BriarRect rect = 13
```

### 3.1.2.132 return\_matrix

```
BoolOption return_matrix = 14
```

### 3.1.2.133 return\_media

```
BoolOption return_media = 10
```

### 3.1.2.134 row\_attributes

```
repeated Attribute row_attributes = 8
```

### 3.1.2.135 row\_headers

```
repeated string row_headers = 2
```

### 3.1.2.136 row\_headers\_integer

```
repeated int32 row_headers_integer = 4
```

#### 3.1.2.137 row\_sources

```
repeated string row_sources = 6
```

#### 3.1.2.138 rows

```
repeated BriarVector rows = 9
```

### 3.1.2.139 SEARCH\_AUTO\_DETECTION

```
SEARCH_AUTO_DETECTION = 1
```

#### 3.1.2.140 search\_batch

```
IntOption search_batch = 7
```

### 3.1.2.141 search\_database

```
StringOption search_database = 3
```

#### 3.1.2.142 SEARCH\_FULL\_IMAGE

```
enum VerifyFlags SEARCH_FULL_IMAGE = 0
```

### 3.1.2.143 SEARCH\_PROVIDED\_DETECTIONS

```
SEARCH_PROVIDED_DETECTIONS = 2
```

### 3.1.2.144 SEARCH\_PROVIDED\_TEMPLATES

```
SEARCH_PROVIDED_TEMPLATES = 3
```

#### 3.1.2.145 search\_threshold

```
FloatOption search_threshold = 5
```

#### 3.1.2.146 SearchMatchInfo

```
message SearchMatchInfo
```

#### Initial value:

```
float score = 1
```

#### 3.1.2.147 SearchMatchList

```
message SearchMatchList
```

#### Initial value:

```
repeated SearchMatchInfo match_list = 1
```

#### 3.1.2.148 SearchOptions

```
message SearchOptions
Initial value:
{
```

```
StringOption out_dir = 1
```

### 3.1.2.149 segment\_id

```
int32 segment_id = 8
```

### 3.1.2.150 segment\_total

```
int32 segment_total = 9
```

#### 3.1.2.151 serverside\_source

```
string serverside_source = 15
```

### 3.1.2.152 service\_duration

```
BriarDuration service_duration = 5
```

### 3.1.2.153 SOFT\_BIOMETRICS

```
SOFT_BIOMETRICS = 8
```

#### 3.1.2.154 source

```
string source = 14
```

### 3.1.2.155 source\_id

```
repeated string source_id = 17
```

#### 3.1.2.156 source\_type

```
DataType source_type = 12
```

### 3.1.2.157 store\_media

```
BoolOption store_media = 11
```

### 3.1.2.158 StringOption

```
message StringOption

Initial value:
{
    bool override_default = 1
```

#### 3.1.2.159 sub\_durations

```
map<string, BriarDuration> sub_durations = 6
```

### 3.1.2.160 subject\_id

```
string subject_id = 3
```

### 3.1.2.161 subject\_id\_gallery

```
string subject_id_gallery = 5
```

#### 3.1.2.162 subject\_id\_integer

```
IntOption subject_id_integer = 16
```

#### 3.1.2.163 subject\_id\_probe

```
string subject_id_probe = 4
```

### 3.1.2.164 subject\_id\_reference

```
string subject_id_reference = 5
```

### 3.1.2.165 subject\_id\_verify

```
string subject_id_verify = 4
```

#### 3.1.2.166 subject\_ids

```
repeated string subject_ids = 4
```

### 3.1.2.167 subject\_name

```
string subject_name = 7
```

### 3.1.2.168 subject\_previews

```
map<string, BriarMedia> subject_previews = 10
```

### 3.1.2.169 submodality

```
string submodality = 16
```

### 3.1.2.170 syntax

```
syntax = "proto3"
```

#### 3.1.2.171 Template

```
message Template
Initial value:
{
    string id = 1
```

#### 3.1.2.172 template\_count

```
int64 template_count = 3
```

#### 3.1.2.173 TemplateData

```
message TemplateData
```

#### Initial value:

```
string key = 1
```

#### 3.1.2.174 Templatelds

```
message TemplateIds
```

#### Initial value:

```
repeated string ids = 1
```

### 3.1.2.175 TemplateList

```
message TemplateList
```

#### Initial value:

```
repeated Template tmpls = 1
```

### 3.1.2.176 TemplateListGroup

```
message TemplateListGroup
```

#### Initial value:

```
repeated TemplateList group = 1
```

### 3.1.2.177 templates

```
string templates = 11
```

### 3.1.2.178 templates\_per\_entry

```
repeated int32 templates_per_entry = 12
```

#### 3.1.2.179 text

```
string text = 6
```

#### 3.1.2.180 theoretical\_max

```
float theoretical_{max} = 3
```

### 3.1.2.181 theoretical\_min

```
float theoretical_min = 2
```

#### 3.1.2.182 threshold

```
FloatOption threshold = 3
```

### 3.1.2.183 total\_database\_size

```
float total_database_size = 5
```

#### 3.1.2.184 total\_duration

```
BriarDuration total_duration = 7
```

#### 3.1.2.185 totalSteps

```
int64 totalSteps = 2
```

#### 3.1.2.186 tracking\_batch

```
IntOption tracking_batch = 4
```

#### 3.1.2.187 tracking\_disable

```
BoolOption tracking_disable = 2
```

#### 3.1.2.188 tracking\_options

```
TrackingOptions tracking_options = 11
```

#### 3.1.2.189 TrackingOptions

```
message TrackingOptions

Initial value:
{
    StringOption algorithm_id = 1
```

#### 3.1.2.190 Tracklet

```
message Tracklet

Initial value:
{
    repeated Detection detections = 1
```

#### 3.1.2.191 tracklet\_class

```
string tracklet_class = 3
```

### 3.1.2.192 tracklet\_id

```
string tracklet_id = 5
```

#### 3.1.2.193 tracklets

```
string tracklets = 12
```

#### 3.1.2.194 type

```
EntryType type = 11
```

#### 3.1.2.195 UNSPECIFIED

```
enum EntryType UNSPECIFIED = 0
```

### 3.1.2.196 use\_detections

```
BoolOption use_detections = 8
```

#### 3.1.2.197 use\_subject\_integer\_id

```
BoolOption use_subject_integer_id = 15
```

### 3.1.2.198 use\_templates

```
BoolOption use_templates = 9
```

#### 3.1.2.199 use\_whole\_image

```
BoolOption use_whole_image = 10
```

### 3.1.2.200 uses\_integer\_gallery\_id

```
bool uses_integer_gallery_id = 13
```

#### 3.1.2.201 uses\_integer\_subject\_id\_gallery

```
bool uses_integer_subject_id_gallery = 14
```

#### 3.1.2.202 value

```
float value = 2
```

#### 3.1.2.203 vector

```
BriarVector vector = 10
```

### 3.1.2.204 VerifyMatchInfo

```
message VerifyMatchInfo
```

### Initial value:

```
float score = 1
```

#### 3.1.2.205 VerifyMatchList

```
message VerifyMatchList
```

#### Initial value:

```
repeated VerifyMatchInfo match_list = 1
```

### 3.1.2.206 VerifyOptions

```
message VerifyOptions
Initial value:
{
    BoolOption debug = 1
```

#### 3.1.2.207 VOICE

VOICE = 11

#### 3.1.2.208 WHOLE\_BODY

 $WHOLE\_BODY = 1$ 

#### 3.1.2.209 width

int32 width = 3

#### 3.1.2.210 xml

bytes xml = 14

### 3.1.2.211 y

float y = 2

## 3.2 briar\_error.proto File Reference

#### **Enumerations**

• enum BriarError { BRIAR\_NUM\_ERRORS = 29 }

#### **Variables**

- syntax = "proto3"
- option csharp\_namespace ="briar.BriarGrpc"
- package briar
- message BriarErrors
- int32 length = 2
- message BriarErrorMessage
- string error\_message = 2

### 3.2.1 Enumeration Type Documentation

#### 3.2.1.1 BriarError

enum BriarError

#### Enumerator

BRIAR\_NUM\_ERRORS

#### 3.2.2 Variable Documentation

#### 3.2.2.1 briar

package briar

### 3.2.2.2 BriarErrorMessage

message BriarErrorMessage

#### Initial value:

int32 error\_code = 1

#### 3.2.2.3 BriarErrors

```
message BriarErrors
```

#### Initial value:

repeated BriarError errors = 1

#### 3.2.2.4 csharp\_namespace

```
option csharp_namespace ="briar.BriarGrpc"
```

#### 3.2.2.5 error\_message

```
string error_message = 2
```

#### 3.2.2.6 length

```
int32 length = 2
```

#### 3.2.2.7 syntax

```
syntax = "proto3"
```

### 3.3 briar service.proto File Reference

#### **Functions**

- rpc detect (stream DetectRequest) returns(stream DetectReply)
- rpc track (stream TrackRequest) returns(stream TrackReply)
- rpc extract (stream ExtractRequest) returns(stream ExtractReply)
- rpc enroll (stream EnrollRequest) returns(stream EnrollReply)
- rpc sigset\_enroll\_custom (EnrollCustomRequest) returns(stream EnrollReply)
- rpc enroll\_subject (stream EnrollRequest) returns(stream EnrollReply)
- rpc verify (stream VerifyRequest) returns(VerifyReply)
- rpc search (stream SearchReguest) returns(stream SearchReply)
- rpc enhance (stream EnhanceRequest) returns(stream EnhanceReply)
- rpc database create (DatabaseCreateRequest) returns(DatabaseCreateReply)
- rpc database\_merge (DatabaseMergeRequest) returns(DatabaseMergeReply)
- rpc database\_rename (DatabaseRenameRequest) returns(DatabaseRenameReply)
- rpc database delete (DatabaseDeleteRequest) returns(DatabaseDeleteReply)
- rpc database\_load (DatabaseLoadRequest) returns(DatabaseLoadReply)
- rpc database\_retrieve (stream DatabaseRetrieveRequest) returns(stream DatabaseRetrieveReply)
- rpc database\_insert (DatabaseInsertRequest) returns(DatabaseInsertReply)
- rpc database\_list (DatabaseListRequest) returns(DatabaseListReply)
- rpc database\_list\_entries (DatabaseListEntriesRequest) returns(DatabaseListentriesReply)
- rpc database\_has\_entry (DatabaseHasEntryRequest) returns(DatabaseHasEntryReply)
- rpc database\_has\_entries (stream DatabaseHasEntryRequest) returns(stream DatabaseHasEntryReply)
- rpc database\_move\_entry (DatabaseMoveEntryRequest) returns(DatabaseMoveEntryReply)

rpc database\_move\_entries (stream DatabaseMoveEntryRequest) returns(stream DatabaseMoveEntry
 — Reply)

- rpc database\_info (DatabaseInfoRequest) returns(DatabaseInfoReply)
- rpc database\_remove\_templates (DatabaseRemoveTmplsRequest) returns(DatabaseRemoveTmplsReply)
- rpc database\_checkpoint\_subject (DatabaseCheckpointSubjectRequest) returns(DatabaseCheckpoint← Reply)
- rpc database\_checkpoint (DatabaseCheckpointRequest) returns(DatabaseCheckpointReply)
- rpc database\_finalize (DatabaseFinalizeRequest) returns(DatabaseFinalizeReply)
- rpc database refresh (Empty) returns(Empty)
- rpc database\_compute\_search (SearchDatabaseRequest) returns(stream SearchDatabaseReply)
- rpc database compute verify (VerifyDatabaseRequest) returns(VerifyDatabaseReply)
- rpc get\_service\_configuration (BriarServiceConfigurationRequest) returns(BriarServiceConfigurationReply)

#### **Variables**

- syntax = "proto3"
- option csharp\_namespace ="briar.BriarGrpc"
- · package briar
- import briar briar\_grpc briar\_error proto
- service BRIARService
- message Empty
- · message ClusterReply
- repeated ClusterConfidence cluster confidences = 2
- BriarDurations durations = 3
- BriarErrors errors = 4
- BriarProgress progress = 5
- · message EnhanceRequest
- repeated Attribute metadata = 2
- repeated Attribute options = 3
- int64 frame\_id = 4
- EnhanceOptions enhance\_options = 6
- message EnhanceReply
- bool progress\_only\_reply = 5
- message DatabaseFinalizeRequest
- message DatabaseFinalizeReply
- bool exists = 3

#### 3.3.1 Function Documentation

#### 3.3.1.1 database\_checkpoint()

#### 3.3.1.2 database\_checkpoint\_subject()

#### 3.3.1.3 database compute search()

#### 3.3.1.4 database\_compute\_verify()

#### 3.3.1.5 database create()

#### 3.3.1.6 database\_delete()

#### 3.3.1.7 database\_finalize()

#### 3.3.1.8 database\_has\_entries()

#### 3.3.1.9 database\_has\_entry()

#### 3.3.1.10 database\_info()

#### 3.3.1.11 database\_insert()

#### 3.3.1.12 database list()

#### 3.3.1.13 database\_list\_entries()

#### 3.3.1.14 database\_load()

#### 3.3.1.15 database\_merge()

```
\begin{tabular}{ll} {\tt rpc database\_merge (} \\ & {\tt DatabaseMergeRequest )} \end{tabular}
```

#### 3.3.1.16 database\_move\_entries()

#### 3.3.1.17 database move entry()

#### 3.3.1.18 database\_refresh()

#### 3.3.1.19 database\_remove\_templates()

#### 3.3.1.20 database\_rename()

#### 3.3.1.21 database\_retrieve()

### 3.3.1.22 detect()

```
\begin{tabular}{ll} \beg
```

#### 3.3.1.23 enhance()

```
\begin{tabular}{ll} {\bf rpc enhance (} \\ & {\bf stream } \begin{tabular}{ll} {\bf Enhance Request } \end{tabular} \label{table of table of ta
```

#### 3.3.1.24 enroll()

#### 3.3.1.25 enroll\_subject()

```
rpc enroll_subject (
          stream EnrollRequest )
```

#### 3.3.1.26 extract()

#### 3.3.1.27 get\_service\_configuration()

```
\begin{tabular}{ll} {\tt rpc get\_service\_configuration (} \\ {\tt BriarServiceConfigurationRequest } \end{tabular} \label{table}
```

#### 3.3.1.28 search()

### 3.3.1.29 sigset\_enroll\_custom()

```
\label{local_custom} \mbox{rpc sigset\_enroll\_custom (} \\ \mbox{EnrollCustomRequest} \ \ )
```

### 3.3.1.30 track()

#### 3.3.1.31 verify()

```
\begin{tabular}{ll} {\bf rpc} & {\bf verify} & (\\ & & {\bf stream} & {\it VerifyRequest} \end{tabular} \ )
```

#### 3.3.2 Variable Documentation

#### 3.3.2.1 briar

package briar

#### 3.3.2.2 BRIARService

```
service BRIARService
```

#### Initial value:

rpc status(StatusRequest) returns (StatusReply){}

#### 3.3.2.3 cluster\_confidences

```
{\tt repeated} \ {\tt ClusterConfidence} \ {\tt cluster\_confidences} \ = \ 2
```

### 3.3.2.4 ClusterReply

```
message ClusterReply
```

#### Initial value:

```
{
    repeated ClusterIds cluster_ids = 1
```

#### 3.3.2.5 csharp\_namespace

```
option csharp_namespace ="briar.BriarGrpc"
```

#### 3.3.2.6 DatabaseFinalizeReply

```
message DatabaseFinalizeReply
Initial value:
{
     BriarDurations durations = 1
```

#### 3.3.2.7 DatabaseFinalizeRequest

```
message DatabaseFinalizeRequest

Initial value:
{
     BriarDatabase database = 1
```

#### 3.3.2.8 durations

```
BriarDurations durations = 3
```

#### 3.3.2.9 Empty

message Empty

#### 3.3.2.10 enhance\_options

```
EnhanceOptions enhance_options = 6
```

### 3.3.2.11 EnhanceReply

```
message EnhanceReply

Initial value:
{
     BriarMedia media = 1
```

### 3.3.2.12 EnhanceRequest

```
message EnhanceRequest

Initial value:
{
    BriarMedia media = 1
```

#### 3.3.2.13 errors

```
BriarErrors errors = 4
```

#### 3.3.2.14 exists

```
bool exists = 3
```

### 3.3.2.15 frame\_id

```
int64 frame_id = 4
```

#### 3.3.2.16 metadata

```
repeated Attribute metadata = 2
```

#### 3.3.2.17 options

```
repeated Attribute options = 3
```

#### 3.3.2.18 progress

```
BriarProgress progress = 5
```

### 3.3.2.19 progress\_only\_reply

```
bool progress_only_reply = 5
```

### 3.3.2.20 proto

```
import briar briar_grpc briar proto
```

### 3.3.2.21 syntax

```
syntax = "proto3"
```

## 3.4 protofiles\_readme.md File Reference

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