

BRIAR API Objective C Stubs

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Chapter 1

BRIAR API Stubs

gRPC Stubs Overview

Stubs are the 'compiled' versions of the protobuf files, although I use the word 'compiled' loosely because the protobuf files have actually been translated into the corresponding language's source code. These files are significantly more complex than the protobuf files but the names of messages and services defined in the protobuf files remain the same in the source files and the objects are ready to use once you have included the source files into your project.

Instructions on how to use gRPC stubs for compatible languages

Google has instructions on how to use gRPC for the different supported languages on their main gRPC website. The link below will take you to a page where you can select a tutorial for your language of choice.

<https://grpc.io/docs/languages/>

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

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Chapter 4

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Chapter 5

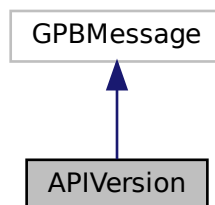
Data Structure Documentation

5.1 APIVersion Class Reference

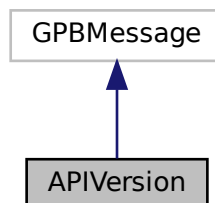
Query the implementation for the version.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for APIVersion:



Collaboration diagram for APIVersion:



Properties

- `int32_t` [major](#)
- `int32_t` [minor](#)
- `int32_t` [patch](#)

5.1.1 Detailed Description

Query the implementation for the version.

5.1.2 Property Documentation

5.1.2.1 major

```
- (int32_t) major [read], [write], [nonatomic], [assign]
```

5.1.2.2 minor

```
- (int32_t) minor [read], [write], [nonatomic], [assign]
```

5.1.2.3 patch

```
- (int32_t) patch [read], [write], [nonatomic], [assign]
```

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h`

5.2 APIVersion__storage_ Struct Reference

Data Fields

- `uint32_t` [_has_storage_](#) [1]
- `int32_t` [major](#)
- `int32_t` [minor](#)
- `int32_t` [patch](#)

5.2.1 Field Documentation

5.2.1.1 `_has_storage_`

```
uint32_t APIVersion__storage_::_has_storage_[1]
```

5.2.1.2 `major`

```
int32_t APIVersion__storage_::major
```

5.2.1.3 `minor`

```
int32_t APIVersion__storage_::minor
```

5.2.1.4 `patch`

```
int32_t APIVersion__storage_::patch
```

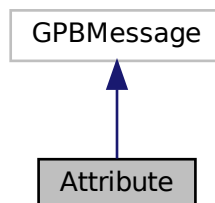
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m`

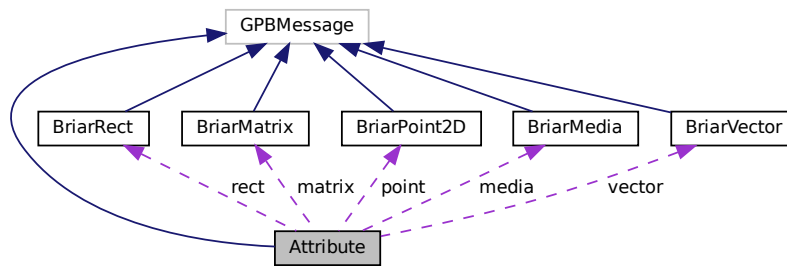
5.3 Attribute Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for Attribute:



Collaboration diagram for Attribute:



Properties

- NSData * [buffer](#)
- NSString * [description_p](#)
A text description on the content or type hint.
- float [fvalue](#)
- BOOL [hasMatrix](#)
Test to see if *matrix* has been set.
- BOOL [hasMedia](#)
Test to see if *media* has been set.
- BOOL [hasPoint](#)
Test to see if *point* has been set.
- BOOL [hasRect](#)
Test to see if *rect* has been set.
- BOOL [hasVector](#)
Test to see if *vector* has been set.
- int32_t [ivalue](#)
- NSData * [json](#)
- NSString * [key](#)
uid for this attribute
- BriarMatrix * [matrix](#)
- BriarMedia * [media](#)
- NSData * [pickle](#)
- BriarPoint2D * [point](#)
- BriarRect * [rect](#)
- NSString * [text](#)
- BriarDataType [type](#)
- BriarVector * [vector](#)
- NSData * [xml](#)

5.3.1 Property Documentation

5.3.1.1 buffer

- (NSData*) buffer [read], [write], [nonatomic], [copy]

5.3.1.2 description_p

- (NSString*) description_p [read], [write], [nonatomic], [copy]

A text description on the content or type hint.

5.3.1.3 fvalue

- (float) fvalue [read], [write], [nonatomic], [assign]

5.3.1.4 hasMatrix

- (BOOL) hasMatrix [read], [write], [nonatomic], [assign]

Test to see if `matrix` has been set.

5.3.1.5 hasMedia

- (BOOL) hasMedia [read], [write], [nonatomic], [assign]

Test to see if `media` has been set.

5.3.1.6 hasPoint

- (BOOL) hasPoint [read], [write], [nonatomic], [assign]

Test to see if `point` has been set.

5.3.1.7 hasRect

- (BOOL) hasRect [read], [write], [nonatomic], [assign]

Test to see if rect has been set.

5.3.1.8 hasVector

- (BOOL) hasVector [read], [write], [nonatomic], [assign]

Test to see if vector has been set.

5.3.1.9 ivalue

- (int32_t) ivalue [read], [write], [nonatomic], [assign]

5.3.1.10 json

- (NSData*) json [read], [write], [nonatomic], [copy]

5.3.1.11 key

- (NSString*) key [read], [write], [nonatomic], [copy]

uid for this attribute

5.3.1.12 matrix

- (BriarMatrix*) matrix [read], [write], [nonatomic], [strong]

5.3.1.13 media

- (BriarMedia*) media [read], [write], [nonatomic], [strong]

5.3.1.14 pickle

- (NSData*) pickle [read], [write], [nonatomic], [copy]

5.3.1.15 point

- (BriarPoint2D*) point [read], [write], [nonatomic], [strong]

5.3.1.16 rect

- (BriarRect*) rect [read], [write], [nonatomic], [strong]

5.3.1.17 text

- (NSString*) text [read], [write], [nonatomic], [copy]

5.3.1.18 type

- (BriarDataType) type [read], [write], [nonatomic], [assign]

5.3.1.19 vector

- (BriarVector*) vector [read], [write], [nonatomic], [strong]

5.3.1.20 xml

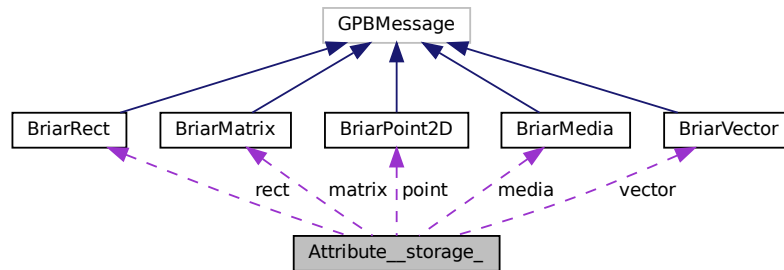
- (NSData*) xml [read], [write], [nonatomic], [copy]

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.4 Attribute__storage_ Struct Reference

Collaboration diagram for Attribute__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSData * [buffer](#)
- NSString * [description_p](#)
- float [fvalue](#)
- int32_t [ivalue](#)
- NSData * [json](#)
- NSString * [key](#)
- [BriarMatrix](#) * [matrix](#)
- [BriarMedia](#) * [media](#)
- NSData * [pickle](#)
- [BriarPoint2D](#) * [point](#)
- [BriarRect](#) * [rect](#)
- NSString * [text](#)
- BriarDataType [type](#)
- [BriarVector](#) * [vector](#)
- NSData * [xml](#)

5.4.1 Field Documentation

5.4.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.4.1.2 buffer

- (NSData*) buffer [protected]

5.4.1.3 description_p

- (NSString*) description_p [protected]

5.4.1.4 fvalue

- (float) fvalue [protected]

5.4.1.5 ivalue

- (int32_t) ivalue [protected]

5.4.1.6 json

- (NSData*) json [protected]

5.4.1.7 key

- (NSString*) key [protected]

5.4.1.8 matrix

- (BriarMatrix*) matrix [protected]

5.4.1.9 media

- (BriarMedia*) media [protected]

5.4.1.10 pickle

- (NSData*) pickle [protected]

5.4.1.11 point

- (BriarPoint2D*) point [protected]

5.4.1.12 rect

- (BriarRect*) rect [protected]

5.4.1.13 text

- (NSString*) text [protected]

5.4.1.14 type

- (BriarDataType) type [protected]

5.4.1.15 vector

- (BriarVector*) vector [protected]

5.4.1.16 xml

- (NSData*) xml [protected]

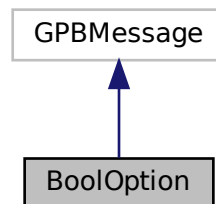
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

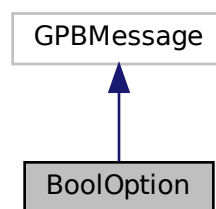
5.5 BoolOption Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BoolOption:



Collaboration diagram for BoolOption:



Properties

- BOOL [overrideDefault](#)
- BOOL [value](#)

5.5.1 Property Documentation

5.5.1.1 overrideDefault

– (BOOL) overrideDefault [read], [write], [nonatomic], [assign]

5.5.1.2 value

- (BOOL) value [read], [write], [nonatomic], [assign]

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.6 BoolOption__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]

5.6.1 Field Documentation

5.6.1.1 _has_storage_

- (uint32_t [_has_storage_](#)[1]) [protected]

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

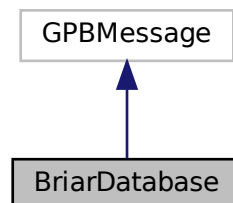
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.7 BriarDatabase Class Reference

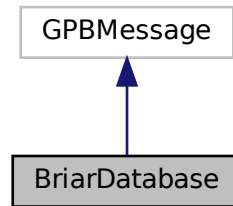
Stores images/detections/feature_vectors together in a searchable/referenceable data structure.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarDatabase:



Collaboration diagram for BriarDatabase:



Properties

- NSString * [name](#)
An identifier for the gallery.

5.7.1 Detailed Description

Stores images/detections/feature_vectors together in a searchable/referenceable data structure.

5.7.2 Property Documentation

5.7.2.1 name

```
- (NSString*) name [read], [write], [nonatomic], [copy]
```

An identifier for the gallery.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h`

5.8 BriarDatabase__storage__Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSString * [name](#)

5.8.1 Field Documentation

5.8.1.1 `_has_storage_`

```
- (uint32_t _has_storage_[1]) [protected]
```

5.8.1.2 `name`

```
- (NSString*) name [protected]
```

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

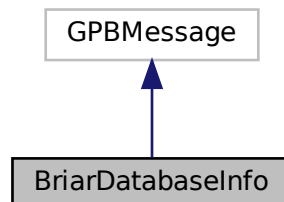
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.9 BriarDatabaseInfo Class Reference

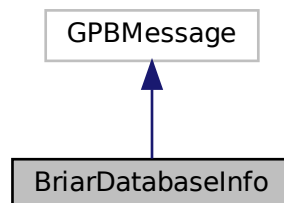
A message used for reporting information about a specific database.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarDatabaseInfo:



Collaboration diagram for BriarDatabaseInfo:



Properties

- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
OPTIONAL: other attributes that may be custom to a performers.
- NSUInteger [attributesArray_Count](#)
The number of items in attributesArray without causing the array to be created.
- float [averageEntrySize](#)
REQUIRED FOR EVALUATION: average size of an entry in KB.
- int64_t [entryCount](#)
REQUIRED: number of entries in the database.
- NSMutableArray< NSString * > * [entryIdsArray](#)
REQUIRED FOR EVALUATION: Returns a list of all entries (as denoted by their appropriate "entryId" from signature set) contained within the database.
- NSUInteger [entryIdsArray_Count](#)
The number of items in entryIdsArray without causing the array to be created.
- GPBFloatArray * [entrySizesArray](#)
REQUIRED FOR EVALUATION: return the stored size of each entry in the database (KB) in the same order as entry_ids.
- NSUInteger [entrySizesArray_Count](#)
The number of items in entrySizesArray without causing the array to be created.
- int64_t [failedEnrollmentCount](#)
REQUIRED: number of failed enrollments into the database.
- GPBEnumArray * [modalitiesArray](#)
OPTIONAL: modality of the database (could be multiple if the database includes multiple modalities)
- NSUInteger [modalitiesArray_Count](#)
The number of items in modalitiesArray without causing the array to be created.
- NSString * [name](#)
REQUIRED: database name.
- int64_t [templateCount](#)
REQUIRED: number of unique templates in the database (could be larger than number of entries)
- GPBInt32Array * [templatesPerEntryArray](#)
OPTIONAL : Returns the number of templates used to generate a each entry.
- NSUInteger [templatesPerEntryArray_Count](#)
The number of items in templatesPerEntryArray without causing the array to be created.
- float [totalDatabaseSize](#)
REQUIRED FOR EVALUATION: size of database in KB.

5.9.1 Detailed Description

A message used for reporting information about a specific database.

5.9.2 Property Documentation

5.9.2.1 attributesArray

```
– (NSMutableArray<Attribute*>*) attributesArray [read], [write], [nonatomic], [strong]
```

OPTIONAL: other attributes that may be custom to a performers.

5.9.2.2 attributesArray_Count

- (NSUInteger) attributesArray_Count [read], [nonatomic], [assign]

The number of items in attributesArray without causing the array to be created.

5.9.2.3 averageEntrySize

- (float) averageEntrySize [read], [write], [nonatomic], [assign]

REQUIRED FOR EVALUATION: average size of an entry in KB.

5.9.2.4 entryCount

- (int64_t) entryCount [read], [write], [nonatomic], [assign]

REQUIRED: number of entries in the database.

5.9.2.5 entryIdsArray

- (NSMutableArray<NSString*>*) entryIdsArray [read], [write], [nonatomic], [strong]

REQUIRED FOR EVALUATION: Returns a list of all entries (as denoted by their appropriate "entryId" from signature set) contained within the database.

5.9.2.6 entryIdsArray_Count

- (NSUInteger) entryIdsArray_Count [read], [nonatomic], [assign]

The number of items in entryIdsArray without causing the array to be created.

5.9.2.7 entrySizesArray

- (GPBFloatArray*) entrySizesArray [read], [write], [nonatomic], [strong]

REQUIRED FOR EVALUATION: return the stored size of each entry in the database (KB) in the same order as entry_ids.

5.9.2.8 entrySizesArray_Count

- (NSUInteger) entrySizesArray_Count [read], [nonatomic], [assign]

The number of items in `entrySizesArray` without causing the array to be created.

5.9.2.9 failedEnrollmentCount

- (int64_t) failedEnrollmentCount [read], [write], [nonatomic], [assign]

REQUIRED: number of failed enrollments into the database.

5.9.2.10 modalitiesArray

- (GPBEnumArray*) modalitiesArray [read], [write], [nonatomic], [strong]

OPTIONAL: modality of the database (could be multiple if the database includes multiple modalities)

5.9.2.11 modalitiesArray_Count

- (NSUInteger) modalitiesArray_Count [read], [nonatomic], [assign]

The number of items in `modalitiesArray` without causing the array to be created.

5.9.2.12 name

- (NSString*) name [read], [write], [nonatomic], [copy]

REQUIRED: database name.

5.9.2.13 templateCount

- (int64_t) templateCount [read], [write], [nonatomic], [assign]

REQUIRED: number of unique templates in the database (could be larger than number of entries)

5.9.2.14 templatesPerEntryArray

- (GPBInt32Array*) templatesPerEntryArray [read], [write], [nonatomic], [strong]

OPTIONAL : Returns the number of templates used to generate a each entry.

Should be in the same order as "entry_ids"

5.9.2.15 templatesPerEntryArray_Count

- (NSUInteger) templatesPerEntryArray_Count [read], [nonatomic], [assign]

The number of items in templatesPerEntryArray without causing the array to be created.

5.9.2.16 totalDatabaseSize

- (float) totalDatabaseSize [read], [write], [nonatomic], [assign]

REQUIRED FOR EVALUATION: size of database in KB.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.10 BriarDatabaseInfo__storage__ Struct Reference

Protected Attributes

- uint32_t _has_storage_ [1]
- NSMutableArray * attributesArray
- float averageEntrySize
- int64_t entryCount
- NSMutableArray * entryIdsArray
- GPBFloatArray * entrySizesArray
- int64_t failedEnrollmentCount
- GPBEnumArray * modalitiesArray
- NSString * name
- int64_t templateCount
- GPBInt32Array * templatesPerEntryArray
- float totalDatabaseSize

5.10.1 Field Documentation

5.10.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.10.1.2 `attributesArray`

- (NSMutableArray*) `attributesArray` [protected]

5.10.1.3 `averageEntrySize`

- (float) `averageEntrySize` [protected]

5.10.1.4 `entryCount`

- (int64_t) `entryCount` [protected]

5.10.1.5 `entryIdsArray`

- (NSMutableArray*) `entryIdsArray` [protected]

5.10.1.6 `entrySizesArray`

- (GPBFloatArray*) `entrySizesArray` [protected]

5.10.1.7 `failedEnrollmentCount`

- (int64_t) `failedEnrollmentCount` [protected]

5.10.1.8 `modalitiesArray`

- (GPBEnumArray*) `modalitiesArray` [protected]

5.10.1.9 name

- (NSString*) name [protected]

5.10.1.10 templateCount

- (int64_t) templateCount [protected]

5.10.1.11 templatesPerEntryArray

- (GPBInt32Array*) templatesPerEntryArray [protected]

5.10.1.12 totalDatabaseSize

- (float) totalDatabaseSize [protected]

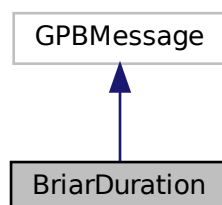
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

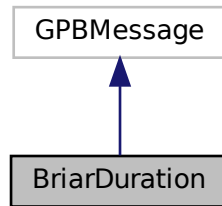
5.11 BriarDuration Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarDuration:



Collaboration diagram for BriarDuration:



Properties

- double [end](#)
start time of process in Seconds Since the Epoch (SSTE)
- double [start](#)
start time of process in Seconds Since the Epoch (SSTE)

5.11.1 Property Documentation

5.11.1.1 end

– (double) end [read], [write], [nonatomic], [assign]

start time of process in Seconds Since the Epoch (SSTE)

5.11.1.2 start

– (double) start [read], [write], [nonatomic], [assign]

start time of process in Seconds Since the Epoch (SSTE)

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.12 BriarDuration__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- double [end](#)
- double [start](#)

5.12.1 Field Documentation

5.12.1.1 [_has_storage_](#)

- (uint32_t [_has_storage_](#)[1]) [protected]

5.12.1.2 [end](#)

- (double) [end](#) [protected]

5.12.1.3 [start](#)

- (double) [start](#) [protected]

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

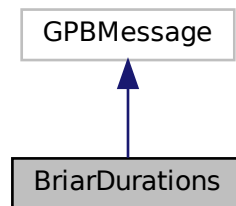
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.13 BriarDurations Class Reference

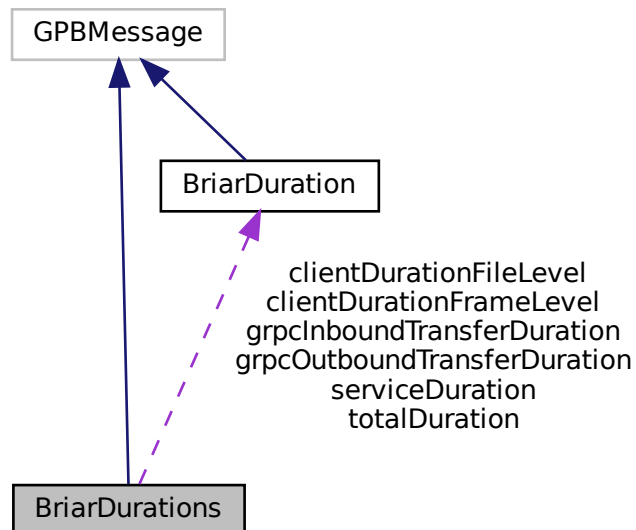
Data structure to contain timing information for BRIAR functions.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarDurations:



Collaboration diagram for BriarDurations:



Properties

- **BriarDuration** * `clientDurationFileLevel`
This will always be populated with the duration taken by the BRIAR API client for the file-level operations.
- **BriarDuration** * `clientDurationFrameLevel`

- This will always be populated with the duration taken by the BRIAR API client for the frame-level operations.*
- **BriarDuration * grpcInboundTransferDuration**
This will always be populated by the duration taken to perform the inbound API data response across the gRPC channel.
- **BriarDuration * grpcOutboundTransferDuration**
This will always be populated by the duration taken to perform the outbound API request across the gRPC channel.
- **BOOL hasClientDurationFileLevel**
Test to see if clientDurationFileLevel has been set.
- **BOOL hasClientDurationFrameLevel**
Test to see if clientDurationFrameLevel has been set.
- **BOOL hasGrpcInboundTransferDuration**
Test to see if grpcInboundTransferDuration has been set.
- **BOOL hasGrpcOutboundTransferDuration**
Test to see if grpcOutboundTransferDuration has been set.
- **BOOL hasServiceDuration**
Test to see if serviceDuration has been set.
- **BOOL hasTotalDuration**
Test to see if totalDuration has been set.
- **BriarDuration * serviceDuration**
- **NSMutableDictionary< NSString *, BriarDuration * > * subDurations**
A list of timings of subroutines within a function.
- **NSUInteger subDurations_Count**
The number of items in subDurations without causing the array to be created.
- **BriarDuration * totalDuration**
The total time in microseconds it took to execute the function.

5.13.1 Detailed Description

Data structure to contain timing information for BRIAR functions.

All timing information is in microseconds

5.13.2 Property Documentation

5.13.2.1 clientDurationFileLevel

```
- (BriarDuration*) clientDurationFileLevel [read], [write], [nonatomic], [strong]
```

This will always be populated with the duration taken by the BRIAR API client for the file-level operations.

5.13.2.2 clientDurationFrameLevel

```
- (BriarDuration*) clientDurationFrameLevel [read], [write], [nonatomic], [strong]
```

This will always be populated with the duration taken by the BRIAR API client for the frame-level operations.

5.13.2.3 grpcInboundTransferDuration

- ([BriarDuration*](#)) grpcInboundTransferDuration [read], [write], [nonatomic], [strong]

This will always be populated by the duration taken to perform the inbound API data response across the gRPC channel.

5.13.2.4 grpcOutboundTransferDuration

- ([BriarDuration*](#)) grpcOutboundTransferDuration [read], [write], [nonatomic], [strong]

This will always be populated by the duration taken to perform the outbound API request across the gRPC channel.

5.13.2.5 hasClientDurationFileLevel

- (BOOL) hasClientDurationFileLevel [read], [write], [nonatomic], [assign]

Test to see if `clientDurationFileLevel` has been set.

5.13.2.6 hasClientDurationFrameLevel

- (BOOL) hasClientDurationFrameLevel [read], [write], [nonatomic], [assign]

Test to see if `clientDurationFrameLevel` has been set.

5.13.2.7 hasGrpcInboundTransferDuration

- (BOOL) hasGrpcInboundTransferDuration [read], [write], [nonatomic], [assign]

Test to see if `grpcInboundTransferDuration` has been set.

5.13.2.8 hasGrpcOutboundTransferDuration

- (BOOL) hasGrpcOutboundTransferDuration [read], [write], [nonatomic], [assign]

Test to see if `grpcOutboundTransferDuration` has been set.

5.13.2.9 hasServiceDuration

- (BOOL) hasServiceDuration [read], [write], [nonatomic], [assign]

Test to see if serviceDuration has been set.

5.13.2.10 hasTotalDuration

- (BOOL) hasTotalDuration [read], [write], [nonatomic], [assign]

Test to see if totalDuration has been set.

5.13.2.11 serviceDuration

- (BriarDuration*) serviceDuration [read], [write], [nonatomic], [strong]

5.13.2.12 subDurations

- (NSMutableDictionary<NSString*, BriarDuration*>*) subDurations [read], [write], [nonatomic], [strong]

A list of timings of subroutines within a function.

5.13.2.13 subDurations_Count

- (NSUInteger) subDurations_Count [read], [nonatomic], [assign]

The number of items in subDurations without causing the array to be created.

5.13.2.14 totalDuration

- (BriarDuration*) totalDuration [read], [write], [nonatomic], [strong]

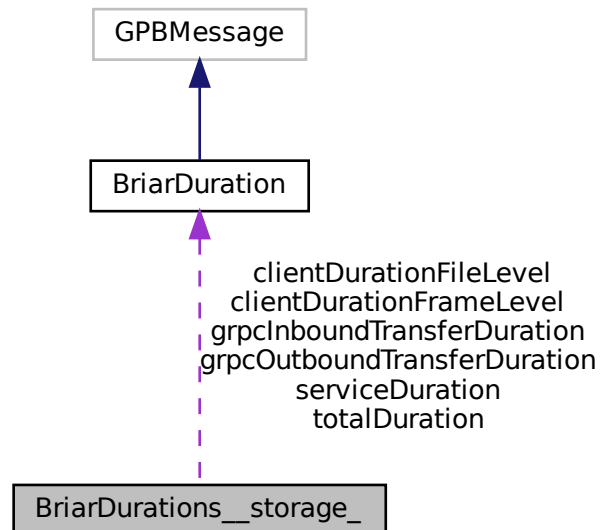
The total time in microseconds it took to execute the function.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.14 BriarDurations__storage_ Struct Reference

Collaboration diagram for BriarDurations__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDuration * clientDurationFileLevel`
- `BriarDuration * clientDurationFrameLevel`
- `BriarDuration * grpcInboundTransferDuration`
- `BriarDuration * grpcOutboundTransferDuration`
- `BriarDuration * serviceDuration`
- `NSMutableDictionary * subDurations`
- `BriarDuration * totalDuration`

5.14.1 Field Documentation

5.14.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.14.1.2 clientDurationFileLevel

- ([BriarDuration*](#)) clientDurationFileLevel [protected]

5.14.1.3 clientDurationFrameLevel

- ([BriarDuration*](#)) clientDurationFrameLevel [protected]

5.14.1.4 grpcInboundTransferDuration

- ([BriarDuration*](#)) grpcInboundTransferDuration [protected]

5.14.1.5 grpcOutboundTransferDuration

- ([BriarDuration*](#)) grpcOutboundTransferDuration [protected]

5.14.1.6 serviceDuration

- ([BriarDuration*](#)) serviceDuration [protected]

5.14.1.7 subDurations

- (NSMutableDictionary*) subDurations [protected]

5.14.1.8 totalDuration

- ([BriarDuration*](#)) totalDuration [protected]

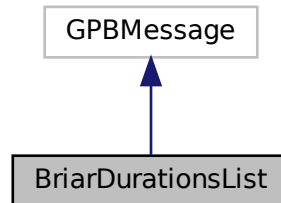
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

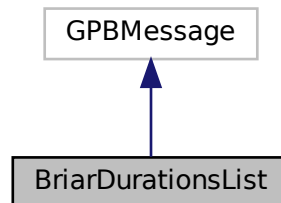
5.15 BriarDurationsList Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarDurationsList:



Collaboration diagram for BriarDurationsList:



Properties

- NSMutableArray< [BriarDurations](#) * > * [durationsListArray](#)
- NSInteger [durationsListArray_Count](#)

The number of items in `durationsListArray` without causing the array to be created.

5.15.1 Property Documentation

5.15.1.1 durationsListArray

– (NSMutableArray<[BriarDurations](#)*>*) durationsListArray [read], [write], [nonatomic], [strong]

5.15.1.2 durationsListArray_Count

```
- (NSUInteger) durationsListArray_Count [read], [nonatomic], [assign]
```

The number of items in `durationsListArray` without causing the array to be created.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.16 BriarDurationsList__storage__ Struct Reference

Protected Attributes

- `uint32_t` [_has_storage_](#) [1]
- `NSMutableArray *` [durationsListArray](#)

5.16.1 Field Documentation

5.16.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.16.1.2 durationsListArray

```
- (NSMutableArray*) durationsListArray [protected]
```

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

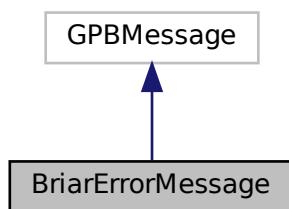
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.17 BriarErrorMessage Class Reference

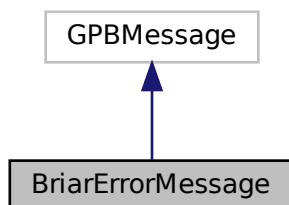
Human readable Error message with code.

```
#import <BriarError.pbobjc.h>
```

Inheritance diagram for BriarErrorMessage:



Collaboration diagram for BriarErrorMessage:



Properties

- `int32_t` `errorCode`
Error Code.
- `NSString *` `errorMessage`
Human readable string.

5.17.1 Detailed Description

Human readable Error message with code.

5.17.2 Property Documentation

5.17.2.1 errorCode

```
- (int32_t) errorCode [read], [write], [nonatomic], [assign]
```

Error Code.

5.17.2.2 errorMessage

```
- (NSString*) errorMessage [read], [write], [nonatomic], [copy]
```

Human readable string.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarError.pbobjc.h](#)

5.18 BriarErrorMessage__storage__ Struct Reference

Protected Attributes

- uint32_t [__has_storage__](#) [1]
- int32_t [errorCode](#)
- NSString * [errorMessage](#)

5.18.1 Field Documentation

5.18.1.1 __has_storage__

```
- (uint32_t __has_storage__[1]) [protected]
```

5.18.1.2 errorCode

```
- (int32_t) errorCode [protected]
```

5.18.1.3 errorMessage

- (NSString*) errorMessage [protected]

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

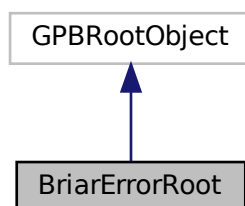
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarError.pbobjc.m

5.19 BriarErrorRoot Class Reference

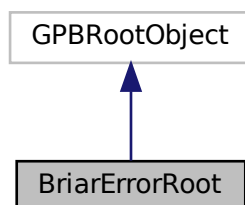
Exposes the extension registry for this file.

```
#import <BriarError.pbobjc.h>
```

Inheritance diagram for BriarErrorRoot:



Collaboration diagram for BriarErrorRoot:



5.19.1 Detailed Description

Exposes the extension registry for this file.

The base class provides:

```
+ (GPBExtensionRegistry *)extensionRegistry;
```

which is a `GPBExtensionRegistry` that includes all the extensions defined by this file and all files that it depends on.

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

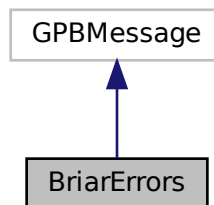
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarError.pbobjc.h](#)

5.20 BriarErrors Class Reference

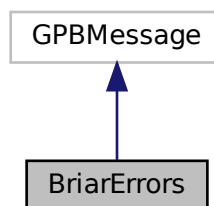
List of errors.

```
#import <BriarError.pbobjc.h>
```

Inheritance diagram for BriarErrors:



Collaboration diagram for BriarErrors:



Properties

- GPBEnumArray * [errorsArray](#)
Error codes.
- NSUInteger [errorsArray_Count](#)
The number of items in `errorsArray` without causing the array to be created.
- int32_t [length](#)
Number of Error codes.

5.20.1 Detailed Description

List of errors.

5.20.2 Property Documentation

5.20.2.1 `errorsArray`

```
- (GPBEnumArray*) errorsArray [read], [write], [nonatomic], [strong]
```

Error codes.

5.20.2.2 `errorsArray_Count`

```
- (NSUInteger) errorsArray_Count [read], [nonatomic], [assign]
```

The number of items in `errorsArray` without causing the array to be created.

5.20.2.3 `length`

```
- (int32_t) length [read], [write], [nonatomic], [assign]
```

Number of Error codes.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarError.pbobjc.h`

5.21 BriarErrors__storage_ Struct Reference

Data Fields

- uint32_t [_has_storage_](#) [1]
- GPBEnumArray * [errorsArray](#)
- int32_t [length](#)

5.21.1 Field Documentation

5.21.1.1 [_has_storage_](#)

```
uint32_t BriarErrors__storage_::_has_storage_[1]
```

5.21.1.2 [errorsArray](#)

```
GPBEnumArray* BriarErrors__storage_::errorsArray
```

5.21.1.3 [length](#)

```
int32_t BriarErrors__storage_::length
```

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

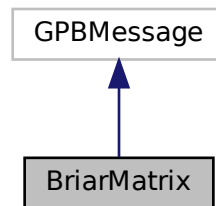
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarError.pbobjc.m](#)

5.22 BriarMatrix Class Reference

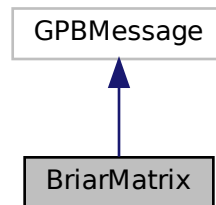
message to hold a vector of vectors

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarMatrix:



Collaboration diagram for BriarMatrix:



Properties

- NSMutableArray< [Attribute](#) * > * [columnAttributesArray](#)
- NSUInteger [columnAttributesArray_Count](#)
The number of items in columnAttributesArray without causing the array to be created.
- NSMutableArray< NSString * > * [columnHeadersArray](#)
Optional: headers for each column.
- NSUInteger [columnHeadersArray_Count](#)
The number of items in columnHeadersArray without causing the array to be created.
- GPBInt32Array * [columnHeadersIntegerArray](#)
Optional: integer headers for each column.
- NSUInteger [columnHeadersIntegerArray_Count](#)
The number of items in columnHeadersIntegerArray without causing the array to be created.
- NSMutableArray< NSString * > * [columnSourcesArray](#)

- Optional: sources for each column.*

 - NSInteger [columnSourcesArray_Count](#)

The number of items in columnSourcesArray without causing the array to be created.
 - NSMutableArray< [Attribute](#) * > * [rowAttributesArray](#)
 - NSInteger [rowAttributesArray_Count](#)

The number of items in rowAttributesArray without causing the array to be created.
 - NSMutableArray< NSString * > * [rowHeadersArray](#)

Optional: headers for each row.
 - NSInteger [rowHeadersArray_Count](#)

The number of items in rowHeadersArray without causing the array to be created.
 - GPBInt32Array * [rowHeadersIntegerArray](#)

Optional: integer headers for each row.
 - NSInteger [rowHeadersIntegerArray_Count](#)

The number of items in rowHeadersIntegerArray without causing the array to be created.
 - NSMutableArray< [BriarVector](#) * > * [rowsArray](#)

arbitrary length array of vectors to store row
 - NSInteger [rowsArray_Count](#)

The number of items in rowsArray without causing the array to be created.
 - NSMutableArray< NSString * > * [rowSourcesArray](#)

Optional: sources for each row.
 - NSInteger [rowSourcesArray_Count](#)

The number of items in rowSourcesArray without causing the array to be created.

5.22.1 Detailed Description

message to hold a vector of vectors

5.22.2 Property Documentation

5.22.2.1 columnAttributesArray

```
- (NSMutableArray<Attribute*>*) columnAttributesArray [read], [write], [nonatomic], [strong]
```

5.22.2.2 columnAttributesArray_Count

```
- (NSInteger) columnAttributesArray_Count [read], [nonatomic], [assign]
```

The number of items in columnAttributesArray without causing the array to be created.

5.22.2.3 columnHeadersArray

- (NSMutableArray<NSString*>*) columnHeadersArray [read], [write], [nonatomic], [strong]

Optional: headers for each column.

5.22.2.4 columnHeadersArray_Count

- (NSUInteger) columnHeadersArray_Count [read], [nonatomic], [assign]

The number of items in columnHeadersArray without causing the array to be created.

5.22.2.5 columnHeadersIntegerArray

- (GPBInt32Array*) columnHeadersIntegerArray [read], [write], [nonatomic], [strong]

Optional: integer headers for each column.

5.22.2.6 columnHeadersIntegerArray_Count

- (NSUInteger) columnHeadersIntegerArray_Count [read], [nonatomic], [assign]

The number of items in columnHeadersIntegerArray without causing the array to be created.

5.22.2.7 columnSourcesArray

- (NSMutableArray<NSString*>*) columnSourcesArray [read], [write], [nonatomic], [strong]

Optional: sources for each column.

5.22.2.8 columnSourcesArray_Count

- (NSUInteger) columnSourcesArray_Count [read], [nonatomic], [assign]

The number of items in columnSourcesArray without causing the array to be created.

5.22.2.9 rowAttributesArray

- (NSMutableArray<Attribute*>*) rowAttributesArray [read], [write], [nonatomic], [strong]

5.22.2.10 rowAttributesArray_Count

- (NSUInteger) rowAttributesArray_Count [read], [nonatomic], [assign]

The number of items in rowAttributesArray without causing the array to be created.

5.22.2.11 rowHeadersArray

- (NSMutableArray<NSString*>*) rowHeadersArray [read], [write], [nonatomic], [strong]

Optional: headers for each row.

5.22.2.12 rowHeadersArray_Count

- (NSUInteger) rowHeadersArray_Count [read], [nonatomic], [assign]

The number of items in rowHeadersArray without causing the array to be created.

5.22.2.13 rowHeadersIntegerArray

- (GPBInt32Array*) rowHeadersIntegerArray [read], [write], [nonatomic], [strong]

Optional: integer headers for each row.

5.22.2.14 rowHeadersIntegerArray_Count

- (NSUInteger) rowHeadersIntegerArray_Count [read], [nonatomic], [assign]

The number of items in rowHeadersIntegerArray without causing the array to be created.

5.22.2.15 rowsArray

```
- (NSMutableArray<BriarVector*>*) rowsArray [read], [write], [nonatomic], [strong]
```

arbitrary length array of vectors to store row

5.22.2.16 rowsArray_Count

```
- (NSUInteger) rowsArray_Count [read], [nonatomic], [assign]
```

The number of items in rowsArray without causing the array to be created.

5.22.2.17 rowSourcesArray

```
- (NSMutableArray<NSString*>*) rowSourcesArray [read], [write], [nonatomic], [strong]
```

Optional: sources for each row.

5.22.2.18 rowSourcesArray_Count

```
- (NSUInteger) rowSourcesArray_Count [read], [nonatomic], [assign]
```

The number of items in rowSourcesArray without causing the array to be created.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.23 BriarMatrix__storage_ Struct Reference

Protected Attributes

- uint32_t _has_storage_ [1]
- NSMutableArray * columnAttributesArray
- NSMutableArray * columnHeadersArray
- GPBInt32Array * columnHeadersIntegerArray
- NSMutableArray * columnSourcesArray
- NSMutableArray * rowAttributesArray
- NSMutableArray * rowHeadersArray
- GPBInt32Array * rowHeadersIntegerArray
- NSMutableArray * rowsArray
- NSMutableArray * rowSourcesArray

5.23.1 Field Documentation

5.23.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.23.1.2 `columnAttributesArray`

- (NSMutableArray*) `columnAttributesArray` [protected]

5.23.1.3 `columnHeadersArray`

- (NSMutableArray*) `columnHeadersArray` [protected]

5.23.1.4 `columnHeadersIntegerArray`

- (GPBInt32Array*) `columnHeadersIntegerArray` [protected]

5.23.1.5 `columnSourcesArray`

- (NSMutableArray*) `columnSourcesArray` [protected]

5.23.1.6 `rowAttributesArray`

- (NSMutableArray*) `rowAttributesArray` [protected]

5.23.1.7 `rowHeadersArray`

- (NSMutableArray*) `rowHeadersArray` [protected]

5.23.1.8 rowHeadersIntegerArray

- (GPBInt32Array*) rowHeadersIntegerArray [protected]

5.23.1.9 rowsArray

- (NSMutableArray*) rowsArray [protected]

5.23.1.10 rowSourcesArray

- (NSMutableArray*) rowSourcesArray [protected]

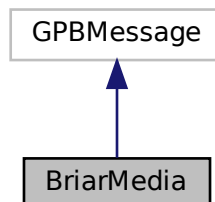
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

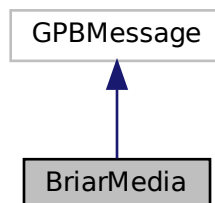
5.24 BriarMedia Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarMedia:



Collaboration diagram for BriarMedia:



Properties

- `int32_t channels`
Number of color layers.
- `NSData * data_p`
Array of bytes containing media data.
- `NSString * datetime`
Optional: timestamp for tracking purposes.
- `NSString * description_p`
Human friendly String to document image.
- `int32_t frameCount`
Number of frames in this media message.
- `int32_t frameEnd`
End frame of media.
- `int32_t frameNumber`
If this is a single frame of a video, this denotes the frame number.
- `float frameRate`
Framerate in frames/second.
- `int32_t frameStart`
Start frame of media.
- `int32_t height`
Height of img in px.
- `BOOL isCropped`
Optional: A boolean to specify if the given media file is pre-cropped or full.
- `NSMutableArray< MediaMetadata * > * metadataArray`
Optional metadata for the entire media stream;.
- `NSUInteger metadataArray_Count`
The number of items in metadataArray without causing the array to be created.
- `int32_t segmentId`
A number identifying the segment in a stream of media.
- `int32_t segmentTotal`
A number specifying the total number of segments to expect.
- `NSString * serversideSource`
A string describing the media location if it resides on the server side (i.e.
- `NSString * source`
A string describing the source of the media (url,filepath,etc.)
- `BriarMedia_DataType sourceType`
Data type of the source of the media (e.g.
- `BriarMedia_DataType type`
Data type of the media data.
- `int32_t width`
Width of img in px.

5.24.1 Detailed Description

Media

5.24.2 Property Documentation

5.24.2.1 channels

- (int32_t) channels [read], [write], [nonatomic], [assign]
Number of color layers.

5.24.2.2 data_p

- (NSData*) data_p [read], [write], [nonatomic], [copy]
Array of bytes containing media data.
If raw color data it should be in RGB/RGBA order.

5.24.2.3 datetime

- (NSString*) datetime [read], [write], [nonatomic], [copy]
Optional: timestamp for tracking purposes.

5.24.2.4 description_p

- (NSString*) description_p [read], [write], [nonatomic], [copy]
Human friendly String to document image.

5.24.2.5 frameCount

- (int32_t) frameCount [read], [write], [nonatomic], [assign]
Number of frames in this media message.

5.24.2.6 frameEnd

- (int32_t) frameEnd [read], [write], [nonatomic], [assign]
End frame of media.

5.24.2.7 frameNumber

- (int32_t) frameNumber [read], [write], [nonatomic], [assign]
If this is a single frame of a video, this denotes the frame number.

5.24.2.8 frameRate

- (float) frameRate [read], [write], [nonatomic], [assign]
Framerate in frames/second.

5.24.2.9 frameStart

- (int32_t) frameStart [read], [write], [nonatomic], [assign]
Start frame of media.

5.24.2.10 height

- (int32_t) height [read], [write], [nonatomic], [assign]
Height of img in px.

5.24.2.11 isCropped

- (BOOL) isCropped [read], [write], [nonatomic], [assign]

Optional: A boolean to specify if the given media file is pre-cropped or full.

5.24.2.12 metadataArray

- (NSMutableArray<MediaMetadata*>) metadataArray [read], [write], [nonatomic], [strong]

Optional metadata for the entire media stream;.

5.24.2.13 metadataArray_Count

- (NSUInteger) metadataArray_Count [read], [nonatomic], [assign]

The number of items in metadataArray without causing the array to be created.

5.24.2.14 segmentId

- (int32_t) segmentId [read], [write], [nonatomic], [assign]

A number identifying the segment in a stream of media.

5.24.2.15 segmentTotal

- (int32_t) segmentTotal [read], [write], [nonatomic], [assign]

A number specifying the total number of segments to expect.

A value of -1 indicates a continuous stream with an unknown end.

5.24.2.16 serversideSource

- (NSString*) serversideSource [read], [write], [nonatomic], [copy]

A string describing the media location if it resides on the server side (i.e. in a location that the performer's algorithm can access directly)

5.24.2.17 source

- (NSString*) source [read], [write], [nonatomic], [copy]

A string describing the source of the media (url,filepath,etc.)

5.24.2.18 sourceType

- (BriarMedia_DataType) sourceType [read], [write], [nonatomic], [assign]

Data type of the source of the media (e.g.

if this is a frame of a video)

5.24.2.19 type

- (BriarMedia_DataType) type [read], [write], [nonatomic], [assign]

Data type of the media data.

5.24.2.20 width

- (int32_t) width [read], [write], [nonatomic], [assign]

Width of img in px.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.25 BriarMedia__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- int32_t [channels](#)
- NSData * [data_p](#)
- NSString * [datetime](#)
- NSString * [description_p](#)
- int32_t [frameCount](#)
- int32_t [frameEnd](#)
- int32_t [frameNumber](#)
- float [frameRate](#)
- int32_t [frameStart](#)
- int32_t [height](#)
- NSMutableArray * [metadataArray](#)
- int32_t [segmentId](#)
- int32_t [segmentTotal](#)
- NSString * [serversideSource](#)
- NSString * [source](#)
- BriarMedia_DataType [sourceType](#)
- BriarMedia_DataType [type](#)
- int32_t [width](#)

5.25.1 Field Documentation

5.25.1.1 [_has_storage_](#)

- (uint32_t [_has_storage_](#)[1]) [protected]

5.25.1.2 [channels](#)

- (int32_t) [channels](#) [protected]

5.25.1.3 [data_p](#)

- (NSData*) [data_p](#) [protected]

5.25.1.4 [datetime](#)

- (NSString*) [datetime](#) [protected]

5.25.1.5 [description_p](#)

- (NSString*) [description_p](#) [protected]

5.25.1.6 [frameCount](#)

- (int32_t) [frameCount](#) [protected]

5.25.1.7 frameEnd

- (int32_t) frameEnd [protected]

5.25.1.8 frameNumber

- (int32_t) frameNumber [protected]

5.25.1.9 frameRate

- (float) frameRate [protected]

5.25.1.10 frameStart

- (int32_t) frameStart [protected]

5.25.1.11 height

- (int32_t) height [protected]

5.25.1.12 metadataArray

- (NSMutableArray*) metadataArray [protected]

5.25.1.13 segmentId

- (int32_t) segmentId [protected]

5.25.1.14 segmentTotal

- (int32_t) segmentTotal [protected]

5.25.1.15 serversideSource

- (NSString*) serversideSource [protected]

5.25.1.16 source

- (NSString*) source [protected]

5.25.1.17 sourceType

- (BriarMedia_DataType) sourceType [protected]

5.25.1.18 type

- (BriarMedia_DataType) type [protected]

5.25.1.19 width

- (int32_t) width [protected]

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

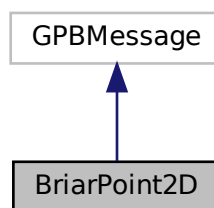
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.26 BriarPoint2D Class Reference

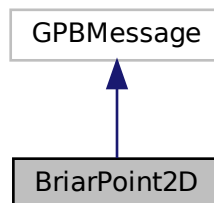
message to hold a point

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarPoint2D:



Collaboration diagram for BriarPoint2D:



Properties

- float [x](#)
- float [y](#)

5.26.1 Detailed Description

message to hold a point

5.26.2 Property Documentation

5.26.2.1 x

```
- (float) x [read], [write], [nonatomic], [assign]
```

5.26.2.2 y

```
- (float) y [read], [write], [nonatomic], [assign]
```

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.27 BriarPoint2D__storage_ Struct Reference**Protected Attributes**

- uint32_t [_has_storage_](#) [1]
- float [x](#)
- float [y](#)

5.27.1 Field Documentation**5.27.1.1 _has_storage_**

```
- (uint32_t _has_storage_[1]) [protected]
```

5.27.1.2 x

```
- (float) x [protected]
```

5.27.1.3 y

```
- (float) y [protected]
```

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

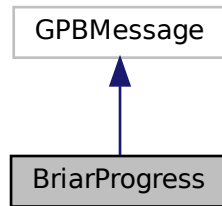
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.28 BriarProgress Class Reference

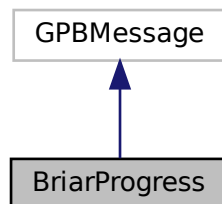
message that contains progress

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarProgress:



Collaboration diagram for BriarProgress:



Properties

- `int64_t` [currentStep](#)
The current step that the process is on.
- `int64_t` [totalSteps](#)
The total steps that the process has to complete (i.e.

5.28.1 Detailed Description

message that contains progress

5.28.2 Property Documentation

5.28.2.1 currentStep

– `(int64_t) currentStep` [read], [write], [nonatomic], [assign]
The current step that the process is on.

5.28.2.2 totalSteps

```
- (int64_t) totalSteps [read], [write], [nonatomic], [assign]
```

The total steps that the process has to complete (i.e. frames in a video)

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.29 BriarProgress__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- int64_t [currentStep](#)
- int64_t [totalSteps](#)

5.29.1 Field Documentation

5.29.1.1 _has_storage_

```
- (uint32_t) _has_storage_ [1] [protected]
```

5.29.1.2 currentStep

```
- (int64_t) currentStep [protected]
```

5.29.1.3 totalSteps

```
- (int64_t) totalSteps [protected]
```

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

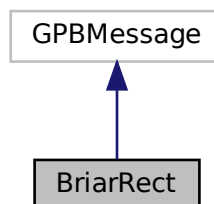
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.30 BriarRect Class Reference

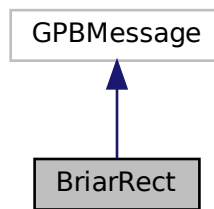
TODO optionally break this out into briar_geometry.proto message to hold rectangle.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarRect:



Collaboration diagram for BriarRect:



Properties

- `int32_t height`
y distance to lower right corner
- `int32_t width`
x distance to lower right corner
- `int32_t x`
Upper left corner.
- `int32_t y`
Upper left corner.

5.30.1 Detailed Description

TODO optionally break this out into `briar_geometry.proto` message to hold rectangle.

5.30.2 Property Documentation

5.30.2.1 height

- (`int32_t`) `height` [`read`], [`write`], [`nonatomic`], [`assign`]
y distance to lower right corner

5.30.2.2 width

- (`int32_t`) `width` [`read`], [`write`], [`nonatomic`], [`assign`]
x distance to lower right corner

5.30.2.3 x

- (`int32_t`) `x` [`read`], [`write`], [`nonatomic`], [`assign`]
Upper left corner.

5.30.2.4 y

- (int32_t) y [read], [write], [nonatomic], [assign]

Upper left corner.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.31 BriarRect__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- int32_t [height](#)
- int32_t [width](#)
- int32_t [x](#)
- int32_t [y](#)

5.31.1 Field Documentation

5.31.1.1 _has_storage_

- (uint32_t [_has_storage_](#)[1]) [protected]

5.31.1.2 height

- (int32_t) [height](#) [protected]

5.31.1.3 width

- (int32_t) [width](#) [protected]

5.31.1.4 x

- (int32_t) [x](#) [protected]

5.31.1.5 y

- (int32_t) [y](#) [protected]

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

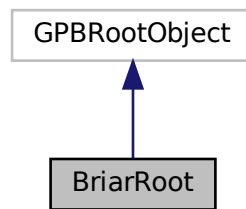
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.32 BriarRoot Class Reference

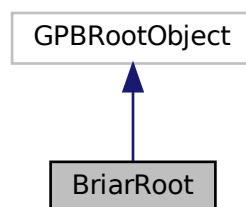
Exposes the extension registry for this file.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarRoot:



Collaboration diagram for BriarRoot:



5.32.1 Detailed Description

Exposes the extension registry for this file.

The base class provides:

```
+ (GPBExtensionRegistry *)extensionRegistry;
```

which is a `GPBExtensionRegistry` that includes all the extensions defined by this file and all files that it depends on.

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

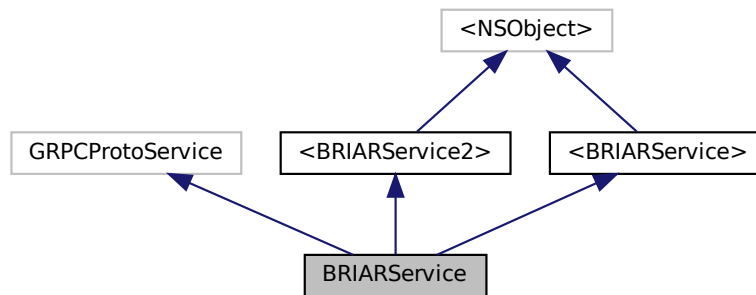
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h`

5.33 BRIARService Class Reference

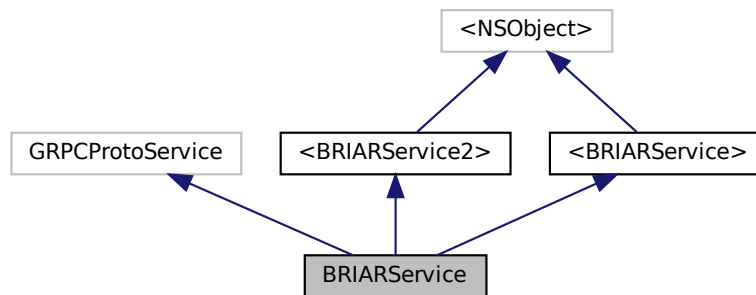
Basic service implementation, over gRPC, that only does marshalling and parsing.

```
#import <BriarService.pbrpc.h>
```

Inheritance diagram for BRIARService:



Collaboration diagram for BRIARService:



Instance Methods

- (instancetype) - [initWithHost:](#)
- (instancetype) - [initWithHost:callOptions:](#)

Class Methods

- (instancetype) + [serviceWithHost:](#)
- (instancetype) + [serviceWithHost:callOptions:](#)

5.33.1 Detailed Description

Basic service implementation, over gRPC, that only does marshalling and parsing.

5.33.2 Method Documentation

5.33.2.1 initWithHost:

```

- (instancetype) initWithHost:
    (NSString *) host
  
```

5.33.2.2 initWithHost:callOptions:

```
- (instancetype) initWithHost:
    (NSString *) host
    callOptions:(GRPCCallOptions *_Nullable) NS_DESIGNATED_INITIALIZER
```

5.33.2.3 serviceWithHost:

```
+ (instancetype) serviceWithHost:
    (NSString *) host
```

5.33.2.4 serviceWithHost:callOptions:

```
+ (instancetype) serviceWithHost:
    (NSString *) host
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

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

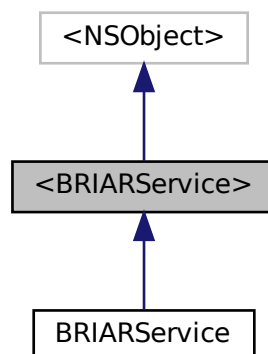
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbrpc.h
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbrpc.m

5.34 <BRIARService> Protocol Reference

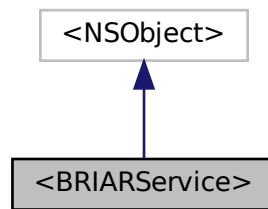
The methods in this protocol belong to a set of old APIs that have been deprecated.

```
#import <BriarService.pbrpc.h>
```

Inheritance diagram for <BRIARService>:



Collaboration diagram for <BRIARService>:



Instance Methods

- (void) - [database_checkpoint_subjectWithRequest:handler:](#)
OPTIONAL will signal to your algorithm that the media for a specific subject is finished, and possible finalization can be run.
- (void) - [database_checkpointWithRequest:handler:](#)
OPTIONAL will save a database's progress without finalizing.
- (void) - [database_compute_searchWithRequest:eventHandler:](#)
REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a set of search results of size Probe↔ Database X Search Rank.
- (void) - [database_compute_verifyWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a score matrix of size databaseA X databaseB.
- (void) - [database_createWithRequest:handler:](#)
REQUIRED Create and initialize a database on the server.
- (void) - [database_deleteWithRequest:handler:](#)
REQUIRED Delete a database on the server.
- (void) - [database_finalizeWithRequest:handler:](#)
REQUIRED Called after all individuals have been enrolled.
- (void) - [database_has_entriesWithRequestsWriter:eventHandler:](#)
- (void) - [database_has_entryWithRequest:handler:](#)
- (void) - [database_infoWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION Return the associated summary information of a specific database.
- (void) - [database_insertWithRequest:handler:](#)
OPTIONAL Clients can insert templates directly into a database for database management purposes.
- (void) - [database_list_entriesWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION List the enrollments and associated metadata in the database.
- (void) - [database_listWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION List the names of the galleries on this service.
- (void) - [database_loadWithRequest:handler:](#)
REQUIRED Load database by name onto the server running the service.
- (void) - [database_mergeWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION Merge a set of databases into a single database.
- (void) - [database_move_entriesWithRequestsWriter:eventHandler:](#)
- (void) - [database_move_entryWithRequest:handler:](#)
- (void) - [database_refreshWithRequest:handler:](#)

- REQUIRED* explicit call to refresh the database list within the service, in case new databases were created by a parallel service that this one does not see.
- (void) - [database_remove_templatesWithRequest:handler:](#)
REQUIRED Templates and associated records are deleted from a database.
 - (void) - [database_renameWithRequest:handler:](#)
REQUIRED Rename a database on the server.
 - (void) - [database_retrieveWithRequestsWriter:eventHandler:](#)
OPTIONAL Clients can retrieve templates with metadata from a database for client side storage, processing, backup, or for database management.
 - (void) - [detectWithRequestsWriter:eventHandler:](#)
REQUIRED Run detection on a media.
 - (void) - [enhanceWithRequestsWriter:eventHandler:](#)
OPTIONAL Enhance a media stream.
 - (void) - [enroll_subjectWithRequestsWriter:eventHandler:](#)
DEPRECATED for use only with legacy systems.
 - (void) - [enrollWithRequestsWriter:eventHandler:](#)
REQUIRED FOR PHASE 1 EVALUATION Detect and extracts templates from media and enrolls the results in a database.
 - (void) - [extractWithRequestsWriter:eventHandler:](#)
REQUIRED Run feature extraction on the provided detection.
 - (void) - [get_service_configurationWithRequest:handler:](#)
 - (GRPCProtoCall *) - [RPCTodatabase_checkpoint_subjectWithRequest:handler:](#)
OPTIONAL will signal to your algorithm that the media for a specific subject is finished, and possible finalization can be run.
 - (GRPCProtoCall *) - [RPCTodatabase_checkpointWithRequest:handler:](#)
OPTIONAL will save a database's progress without finalizing.
 - (GRPCProtoCall *) - [RPCTodatabase_compute_searchWithRequest:eventHandler:](#)
REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a set of search results of size Probe↔ Database X Search Rank.
 - (GRPCProtoCall *) - [RPCTodatabase_compute_verifyWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a score matrix of size databaseA X databaseB.
 - (GRPCProtoCall *) - [RPCTodatabase_createWithRequest:handler:](#)
REQUIRED Create and initialize a database on the server.
 - (GRPCProtoCall *) - [RPCTodatabase_deleteWithRequest:handler:](#)
REQUIRED Delete a database on the server.
 - (GRPCProtoCall *) - [RPCTodatabase_finalizeWithRequest:handler:](#)
REQUIRED Called after all individuals have been enrolled.
 - (GRPCProtoCall *) - [RPCTodatabase_has_entriesWithRequestsWriter:eventHandler:](#)
 - (GRPCProtoCall *) - [RPCTodatabase_has_entryWithRequest:handler:](#)
 - (GRPCProtoCall *) - [RPCTodatabase_infoWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION Return the associated summary information of a specific database.
 - (GRPCProtoCall *) - [RPCTodatabase_insertWithRequest:handler:](#)
OPTIONAL Clients can insert templates directly into a database for database management purposes.
 - (GRPCProtoCall *) - [RPCTodatabase_list_entriesWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION List the enrollments and associated metadata in the database.
 - (GRPCProtoCall *) - [RPCTodatabase_listWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION List the names of the galleries on this service.
 - (GRPCProtoCall *) - [RPCTodatabase_loadWithRequest:handler:](#)
REQUIRED Load database by name onto the server running the service.
 - (GRPCProtoCall *) - [RPCTodatabase_mergeWithRequest:handler:](#)
REQUIRED FOR PHASE 1 EVALUATION Merge a set of databases into a single database.

- (GRPCProtoCall *) - [RPCTodatabase_move_entriesWithRequestsWriter:eventHandler:](#)
- (GRPCProtoCall *) - [RPCTodatabase_move_entryWithRequest:handler:](#)
- (GRPCProtoCall *) - [RPCTodatabase_refreshWithRequest:handler:](#)
REQUIRED explicit call to refresh the database list within the service, in case new databases were created by a parallel service that this one does not see.
- (GRPCProtoCall *) - [RPCTodatabase_remove_templatesWithRequest:handler:](#)
REQUIRED Templates and associated records are deleted from a database.
- (GRPCProtoCall *) - [RPCTodatabase_renameWithRequest:handler:](#)
REQUIRED Rename a database on the server.
- (GRPCProtoCall *) - [RPCTodatabase_retrieveWithRequestsWriter:eventHandler:](#)
OPTIONAL Clients can retrieve templates with metadata from a database for client side storage, processing, backup, or for database management.
- (GRPCProtoCall *) - [RPCTodetectWithRequestsWriter:eventHandler:](#)
REQUIRED Run detection on a media.
- (GRPCProtoCall *) - [RPCToenhanceWithRequestsWriter:eventHandler:](#)
OPTIONAL Enhance a media stream.
- (GRPCProtoCall *) - [RPCToenroll_subjectWithRequestsWriter:eventHandler:](#)
DEPRECATED for use only with legacy systems.
- (GRPCProtoCall *) - [RPCToenrollWithRequestsWriter:eventHandler:](#)
REQUIRED FOR PHASE 1 EVALUATION Detect and extracts templates from media and enrolls the results in a database.
- (GRPCProtoCall *) - [RPCToextractWithRequestsWriter:eventHandler:](#)
REQUIRED Run feature extraction on the provided detection.
- (GRPCProtoCall *) - [RPCToget_service_configurationWithRequest:handler:](#)
- (GRPCProtoCall *) - [RPCTosearchWithRequestsWriter:eventHandler:](#)
REQUIRED Use provided template ids to search a database for that person.
- (GRPCProtoCall *) - [RPCTosigset_enroll_customWithRequest:eventHandler:](#)
OPTIONAL FOR PHASE 1 EVALUATION, NOT FOR GENERAL PURPOSE USE.
- (GRPCProtoCall *) - [RPCTostatusWithRequest:handler:](#)
REQUIRED Check service status.
- (GRPCProtoCall *) - [RPCTotrackWithRequestsWriter:eventHandler:](#)
OPTIONAL To run tracking on video media.
- (GRPCProtoCall *) - [RPCToverifyWithRequestsWriter:handler:](#)
REQUIRED Compare two template ids and verify if they are the same person.
- (void) - [searchWithRequestsWriter:eventHandler:](#)
REQUIRED Use provided template ids to search a database for that person.
- (void) - [sigset_enroll_customWithRequest:eventHandler:](#)
OPTIONAL FOR PHASE 1 EVALUATION, NOT FOR GENERAL PURPOSE USE.
- (void) - [statusWithRequest:handler:](#)
REQUIRED Check service status.
- (void) - [trackWithRequestsWriter:eventHandler:](#)
OPTIONAL To run tracking on video media.
- (void) - [verifyWithRequestsWriter:handler:](#)
REQUIRED Compare two template ids and verify if they are the same person.

5.34.1 Detailed Description

The methods in this protocol belong to a set of old APIs that have been deprecated. They do not recognize call options provided in the initializer. Using the v2 protocol is recommended.

5.34.2 Method Documentation

5.34.2.1 database_checkpoint_subjectWithRequest:handler:

```
- (void) database_checkpoint_subjectWithRequest:
    (DatabaseCheckpointSubjectRequest *) request
    handler:(void (^)(DatabaseCheckpointReply *_Nullable response, NSError *_Nullable
error)) handler
```

OPTIONAL will signal to your algorithm that the media for a specific subject is finished, and possible finalization can be run.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.2 database_checkpointWithRequest:handler:

```
- (void) database_checkpointWithRequest:
    (DatabaseCheckpointRequest *) request
    handler:(void (^)(DatabaseCheckpointReply *_Nullable response, NSError *_Nullable
error)) handler
```

OPTIONAL will save a database's progress without finalizing.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.3 database_compute_searchWithRequest:eventHandler:

```
- (void) database_compute_searchWithRequest:
    (SearchDatabaseRequest *) request
    eventHandler:(void (^)(BOOL done, SearchDatabaseReply *_Nullable response, NSError
*_Nullable error)) eventHandler
```

REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a set of search results of size ProbeDatabase X Search Rank.

The matrix may be used for testing, analysis, client side clustering, etc. This may needed to be implemented to support evaluations in the future.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.4 database_compute_verifyWithRequest:handler:

```
- (void) database_compute_verifyWithRequest:
    (VerifyDatabaseRequest *) request
    handler:(void (^)(VerifyDatabaseReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a score matrix of size databaseA X databaseB.

The matrix may be used for testing, analysis, client side clustering, etc. This may needed to be implemented to support evaluations in the future.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.5 database_createWithRequest:handler:

```
- (void) database_createWithRequest:
    (DatabaseCreateRequest *) request
    handler:(void (^)(DatabaseCreateReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Create and initialize a database on the server.

This should prepare the database to receive enrollment requests.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.6 database_deleteWithRequest:handler:

```
- (void) database_deleteWithRequest:
    (DatabaseDeleteRequest *) request
    handler:(void (^)(DatabaseDeleteReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Delete a database on the server.

This should remove the database and remove associated storage.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.7 database_finalizeWithRequest:handler:

```
- (void) database_finalizeWithRequest:
    (DatabaseFinalizeRequest *) request
    handler:(void (^)(DatabaseFinalizeReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Called after all individuals have been enrolled.

Conduct any analysis of the database entries as needed or optimize for fast verification or search.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.8 database_has_entriesWithRequestsWriter:eventHandler:

```
- (void) database_has_entriesWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, DatabaseHasEntryReply *_Nullable response, NSError
*_Nullable error)) eventHandler
```

5.34.2.9 database_has_entryWithRequest:handler:

```
- (void) database_has_entryWithRequest:
    (DatabaseHasEntryRequest *) request
    handler:(void (^)(DatabaseHasEntryReply *_Nullable response, NSError *_Nullable
error)) handler
```

5.34.2.10 database_infoWithRequest:handler:

```
- (void) database_infoWithRequest:
    (DatabaseInfoRequest *) request
    handler:(void (^)(DatabaseInfoReply *_Nullable response, NSError *_Nullable error))
handler
```

REQUIRED FOR PHASE 1 EVALUATION Return the associated summary information of a specific database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.11 database_insertWithRequest:handler:

```
- (void) database_insertWithRequest:
    (DatabaseInsertRequest *) request
    handler:(void (^)(DatabaseInsertReply *_Nullable response, NSError *_Nullable
error)) handler
```

OPTIONAL Clients can insert templates directly into a database for database management purposes.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.12 database_list_entriesWithRequest:handler:

```
- (void) database_list_entriesWithRequest:
    (DatabaseListEntriesRequest *) request
    handler:(void (^)(DatabaseListEntriesReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED FOR PHASE 1 EVALUATION List the enrollments and associated metadata in the database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.13 database_listWithRequest:handler:

```
- (void) database_listWithRequest:
    (DatabaseListRequest *) request
    handler:(void (^)(DatabaseListReply *_Nullable response, NSError *_Nullable error))
    handler
```

REQUIRED FOR PHASE 1 EVALUATION List the names of the galleries on this service.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.14 database_loadWithRequest:handler:

```
- (void) database_loadWithRequest:
    (DatabaseLoadRequest *) request
    handler:(void (^)(DatabaseLoadReply *_Nullable response, NSError *_Nullable error))
    handler
```

REQUIRED Load database by name onto the server running the service.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.15 database_mergeWithRequest:handler:

```
- (void) database_mergeWithRequest:
    (DatabaseMergeRequest *) request
    handler:(void (^)(DatabaseMergeReply *_Nullable response, NSError *_Nullable error))
    handler
```

REQUIRED FOR PHASE 1 EVALUATION Merge a set of databases into a single database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.16 database_move_entriesWithRequestsWriter:eventHandler:

```
- (void) database_move_entriesWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, DatabaseMoveEntryReply *_Nullable response,
    NSError *_Nullable error)) eventHandler
```

5.34.2.17 database_move_entryWithRequest:handler:

```
- (void) database_move_entryWithRequest:
    (DatabaseMoveEntryRequest *) request
    handler:(void (^)(DatabaseMoveEntryReply *_Nullable response, NSError *_Nullable
    error)) handler
```

5.34.2.18 database_refreshWithRequest:handler:

```
- (void) database_refreshWithRequest:
    (Empty *) request
    handler:(void (^)(Empty *_Nullable response, NSError *_Nullable error)) handler
```

REQUIRED explicit call to refresh the database list within the service, in case new databases were created by a parallel service that this one does not see.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.19 database_remove_templatesWithRequest:handler:

```
- (void) database_remove_templatesWithRequest:
    (DatabaseRemoveTplRequest *) request
    handler:(void (^)(DatabaseRemoveTplReply *_Nullable response, NSError *_Nullable
    error)) handler
```

REQUIRED Templates and associated records are deleted from a database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.20 database_renameWithRequest:handler:

```
- (void) database_renameWithRequest:
    (DatabaseRenameRequest *) request
    handler:(void (^)(DatabaseRenameReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Rename a database on the server.

This should rename the database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.21 database_retrieveWithRequestsWriter:eventHandler:

```
- (void) database_retrieveWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, DatabaseRetrieveReply *_Nullable response, NSError
*_Nullable error)) eventHandler
```

OPTIONAL Clients can retrieve templates with metadata from a database for client side storage, processing, backup, or for database management.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.22 detectWithRequestsWriter:eventHandler:

```
- (void) detectWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, DetectReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

REQUIRED Run detection on a media.

Optionally this can also run attribute classification and template extraction. Implementation should be similar to enroll but with nothing stored in a database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.23 enhanceWithRequestsWriter:eventHandler:

```
- (void) enhanceWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, EnhanceReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

OPTIONAL Enhance a media stream.

This takes a media stream as an input and return a media stream of enhanced video.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.24 enroll_subjectWithRequestsWriter:eventHandler:

```
- (void) enroll_subjectWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, EnrollReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

DEPRECATED for use only with legacy systems.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.25 enrollWithRequestsWriter:eventHandler:

```
- (void) enrollWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, EnrollReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

REQUIRED FOR PHASE 1 EVALUATION Detect and extracts templates from media and enrolls the results in a database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.26 extractWithRequestsWriter:eventHandler:

```
- (void) extractWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, ExtractReply *_Nullable response, NSError * _Nullable error)) eventHandler
```

REQUIRED Run feature extraction on the provided detection.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.27 get_service_configurationWithRequest:handler:

```
- (void) get_service_configurationWithRequest:
    (BriarServiceConfigurationRequest *) request
    handler:(void (^)(BriarServiceConfigurationReply *_Nullable response, NSError * _Nullable error)) handler
```

5.34.2.28 RPCTodatabase_checkpoint_subjectWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_checkpoint_subjectWithRequest:
    (DatabaseCheckpointSubjectRequest *) request
    handler:(void (^)(DatabaseCheckpointReply *_Nullable response, NSError * _Nullable error)) handler
```

OPTIONAL will signal to your algorithm that the media for a specific subject is finished, and possible finalization can be run.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.29 RPCTodatabase_checkpointWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_checkpointWithRequest:
    (DatabaseCheckpointRequest *) request
    handler:(void (^)(DatabaseCheckpointReply *_Nullable response, NSError * _Nullable error)) handler
```

OPTIONAL will save a database's progress without finalizing.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.30 RPCTodatabase_compute_searchWithRequest:eventHandler:

```
- (GRPCProtoCall *) RPCTodatabase_compute_searchWithRequest:
    (SearchDatabaseRequest *) request
    eventHandler:(void (^)(BOOL done, SearchDatabaseReply *_Nullable response, NSError * _Nullable error)) eventHandler
```

REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a set of search results of size ProbeDatabase X Search Rank.

The matrix may be used for testing, analysis, client side clustering, etc. This may needed to be implemented to support evaluations in the future.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.31 RPCTodatabase_compute_verifyWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_compute_verifyWithRequest:
    (VerifyDatabaseRequest *) request
    handler:(void (^)(VerifyDatabaseReply *_Nullable response, NSError * _Nullable error)) handler
```

REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a score matrix of size databaseA X databaseB.

The matrix may be used for testing, analysis, client side clustering, etc. This may needed to be implemented to support evaluations in the future.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.32 RPCTodatabase_createWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_createWithRequest:
    (DatabaseCreateRequest *) request
    handler:(void (^)(DatabaseCreateReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Create and initialize a database on the server.

This should prepare the database to receive enrollment requests.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.33 RPCTodatabase_deleteWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_deleteWithRequest:
    (DatabaseDeleteRequest *) request
    handler:(void (^)(DatabaseDeleteReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Delete a database on the server.

This should remove the database and remove associated storage.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.34 RPCTodatabase_finalizeWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_finalizeWithRequest:
    (DatabaseFinalizeRequest *) request
    handler:(void (^)(DatabaseFinalizeReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Called after all individuals have been enrolled.

Conduct any analysis of the database entries as needed or optimize for fast verification or search.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.35 RPCTodatabase_has_entriesWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCTodatabase_has_entriesWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, DatabaseHasEntryReply *_Nullable response, NSError
*_Nullable error)) eventHandler
```

5.34.2.36 RPCTodatabase_has_entryWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_has_entryWithRequest:
    (DatabaseHasEntryRequest *) request
    handler:(void (^)(DatabaseHasEntryReply *_Nullable response, NSError *_Nullable
error)) handler
```

5.34.2.37 RPCTodatabase_infoWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_infoWithRequest:
    (DatabaseInfoRequest *) request
    handler:(void (^)(DatabaseInfoReply *_Nullable response, NSError *_Nullable error))
handler
```

REQUIRED FOR PHASE 1 EVALUATION Return the associated summary information of a specific database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.38 RPCTodatabase_insertWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_insertWithRequest:
    (DatabaseInsertRequest *) request
```

```
handler:(void(^)(DatabaseInsertReply *_Nullable response, NSError *_Nullable error)) handler
```

OPTIONAL Clients can insert templates directly into a database for database management purposes. This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.39 RPCTodatabase_list_entriesWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_list_entriesWithRequest:
    (DatabaseListEntriesRequest *) request
    handler:(void(^)(DatabaseListEntriesReply *_Nullable response, NSError *_Nullable error)) handler
```

REQUIRED FOR PHASE 1 EVALUATION List the enrollments and associated metadata in the database. This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.40 RPCTodatabase_listWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_listWithRequest:
    (DatabaseListRequest *) request
    handler:(void(^)(DatabaseListReply *_Nullable response, NSError *_Nullable error)) handler
```

REQUIRED FOR PHASE 1 EVALUATION List the names of the galleries on this service. This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.41 RPCTodatabase_loadWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_loadWithRequest:
    (DatabaseLoadRequest *) request
    handler:(void(^)(DatabaseLoadReply *_Nullable response, NSError *_Nullable error)) handler
```

REQUIRED Load database by name onto the server running the service. This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.42 RPCTodatabase_mergeWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_mergeWithRequest:
    (DatabaseMergeRequest *) request
    handler:(void(^)(DatabaseMergeReply *_Nullable response, NSError *_Nullable error)) handler
```

REQUIRED FOR PHASE 1 EVALUATION Merge a set of databases into a single database. This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.43 RPCTodatabase_move_entriesWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCTodatabase_move_entriesWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void(^)(BOOL done, DatabaseMoveEntryReply *_Nullable response, NSError *_Nullable error)) eventHandler
```

5.34.2.44 RPCTodatabase_move_entryWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_move_entryWithRequest:
    (DatabaseMoveEntryRequest *) request
    handler:(void(^)(DatabaseMoveEntryReply *_Nullable response, NSError *_Nullable error)) handler
```

5.34.2.45 RPCTodatabase_refreshWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_refreshWithRequest:
    (Empty *) request
    handler:(void (^)(Empty *_Nullable response, NSError *_Nullable error)) handler
```

REQUIRED explicit call to refresh the database list within the service, in case new databases were created by a parallel service that this one does not see.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.46 RPCTodatabase_remove_templatesWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_remove_templatesWithRequest:
    (DatabaseRemoveTplRequest *) request
    handler:(void (^)(DatabaseRemoveTplReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Templates and associated records are deleted from a database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.47 RPCTodatabase_renameWithRequest:handler:

```
- (GRPCProtoCall *) RPCTodatabase_renameWithRequest:
    (DatabaseRenameRequest *) request
    handler:(void (^)(DatabaseRenameReply *_Nullable response, NSError *_Nullable
error)) handler
```

REQUIRED Rename a database on the server.

This should rename the database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.48 RPCTodatabase_retrieveWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCTodatabase_retrieveWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, DatabaseRetrieveReply *_Nullable response, NSError
*_Nullable error)) eventHandler
```

OPTIONAL Clients can retrieve templates with metadata from a database for client side storage, processing, backup, or for database management.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.49 RPCTodetectWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCTodetectWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, DetectReply *_Nullable response, NSError *_↔
Nullable error)) eventHandler
```

REQUIRED Run detection on a media.

Optionally this can also run attribute classification and template extraction. Implementation should be similar to enroll but with nothing stored in a database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.50 RPCToenhanceWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCToenhanceWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, EnhanceReply *_Nullable response, NSError *_↔
Nullable error)) eventHandler
```

OPTIONAL Enhance a media stream.

This takes a media stream as an input and return a media stream of enhanced video.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.51 RPCToenroll_subjectWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCToenroll_subjectWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, EnrollReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

DEPRECATED for use only with legacy systems.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.52 RPCToenrollWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCToenrollWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, EnrollReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

REQUIRED FOR PHASE 1 EVALUATION Detect and extracts templates from media and enrolls the results in a database.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.53 RPCToextractWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCToextractWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, ExtractReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

REQUIRED Run feature extraction on the provided detection.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.54 RPCToget_service_configurationWithRequest:handler:

```
- (GRPCProtoCall *) RPCToget_service_configurationWithRequest:
    (BriarServiceConfigurationRequest *) request
    handler:(void (^)(BriarServiceConfigurationReply *_Nullable response, NSError *_↵
Nullable error)) handler
```

5.34.2.55 RPCTosearchWithRequestsWriter:eventHandler:

```
- (GRPCProtoCall *) RPCTosearchWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void (^)(BOOL done, SearchReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

REQUIRED Use provided template ids to search a database for that person.

Return a rank ordered list of results with scores.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.56 RPCTosigset_enroll_customWithRequest:eventHandler:

```
- (GRPCProtoCall *) RPCTosigset_enroll_customWithRequest:
    (EnrollCustomRequest *) request
    eventHandler:(void (^)(BOOL done, EnrollReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler
```

OPTIONAL FOR PHASE 1 EVALUATION, NOT FOR GENERAL PURPOSE USE.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.57 RPCTostatusWithRequest:handler:

```
- (GRPCProtoCall *) RPCTostatusWithRequest:
    (StatusRequest *) request
```

```

        handler:(void(^)(StatusReply *_Nullable response, NSError *_Nullable error))
handler

```

REQUIRED Check service status.

After connecting clients should typically call this function to insure that the service is in the READY state.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.58 RPCTotrackWithRequestsWriter:eventHandler:

```

- (GRPCProtoCall *) RPCTotrackWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void(^)(BOOL done, TrackReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler

```

OPTIONAL To run tracking on video media.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.59 RPCToverifyWithRequestsWriter:handler:

```

- (GRPCProtoCall *) RPCToverifyWithRequestsWriter:
    (GRXWriter *) requestWriter
    handler:(void(^)(VerifyReply *_Nullable response, NSError *_Nullable error))
handler

```

REQUIRED Compare two template ids and verify if they are the same person.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.60 searchWithRequestsWriter:eventHandler:

```

- (void) searchWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void(^)(BOOL done, SearchReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler

```

REQUIRED Use provided template ids to search a database for that person.

Return a rank ordered list of results with scores.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.61 sigset_enroll_customWithRequest:eventHandler:

```

- (void) sigset_enroll_customWithRequest:
    (EnrollCustomRequest *) request
    eventHandler:(void(^)(BOOL done, EnrollReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler

```

OPTIONAL FOR PHASE 1 EVALUATION, NOT FOR GENERAL PURPOSE USE.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.62 statusWithRequest:handler:

```

- (void) statusWithRequest:
    (StatusRequest *) request
    handler:(void(^)(StatusReply *_Nullable response, NSError *_Nullable error))
handler

```

REQUIRED Check service status.

After connecting clients should typically call this function to insure that the service is in the READY state.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.63 trackWithRequestsWriter:eventHandler:

```

- (void) trackWithRequestsWriter:
    (GRXWriter *) requestWriter
    eventHandler:(void(^)(BOOL done, TrackReply *_Nullable response, NSError *_↵
Nullable error)) eventHandler

```

OPTIONAL To run tracking on video media.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

5.34.2.64 verifyWithRequestsWriter:handler:

```
- (void) verifyWithRequestsWriter:
    (GRXWriter *) requestWriter
    handler:(void (^)(VerifyReply *_Nullable response, NSError *_Nullable error))
    handler
```

REQUIRED Compare two template ids and verify if they are the same person.

This method belongs to a set of APIs that have been deprecated. Using the v2 API is recommended.

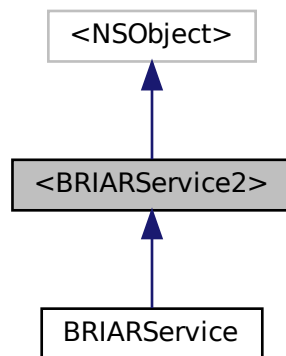
The documentation for this protocol was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbrpc.h

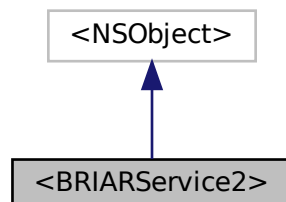
5.35 <BRIARService2> Protocol Reference

```
#import <BriarService.pbrpc.h>
```

Inheritance diagram for <BRIARService2>:



Collaboration diagram for <BRIARService2>:



Instance Methods

- (GRPCUnaryProtoCall *) - [database_checkpoint_subjectWithMessage:responseHandler:callOptions:](#)
OPTIONAL will signal to your algorithm that the media for a specific subject is finished, and possible finalization can be run.
- (GRPCUnaryProtoCall *) - [database_checkpointWithMessage:responseHandler:callOptions:](#)
OPTIONAL will save a database's progress without finalizing.
- (GRPCUnaryProtoCall *) - [database_compute_searchWithMessage:responseHandler:callOptions:](#)
REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a set of search results of size $Probe \leftarrow Database \times Search Rank$.
- (GRPCUnaryProtoCall *) - [database_compute_verifyWithMessage:responseHandler:callOptions:](#)
REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a score matrix of size $databaseA \times databaseB$.
- (GRPCUnaryProtoCall *) - [database_createWithMessage:responseHandler:callOptions:](#)
REQUIRED Create and initialize a database on the server.
- (GRPCUnaryProtoCall *) - [database_deleteWithMessage:responseHandler:callOptions:](#)
REQUIRED Delete a database on the server.
- (GRPCUnaryProtoCall *) - [database_finalizeWithMessage:responseHandler:callOptions:](#)
REQUIRED Called after all individuals have been enrolled.
- (GRPCStreamingProtoCall *) - [database_has_entriesWithResponseHandler:callOptions:](#)
- (GRPCUnaryProtoCall *) - [database_has_entryWithMessage:responseHandler:callOptions:](#)
- (GRPCUnaryProtoCall *) - [database_infoWithMessage:responseHandler:callOptions:](#)
REQUIRED FOR PHASE 1 EVALUATION Return the associated summary information of a specific database.
- (GRPCUnaryProtoCall *) - [database_insertWithMessage:responseHandler:callOptions:](#)
OPTIONAL Clients can insert templates directly into a database for database management purposes.
- (GRPCUnaryProtoCall *) - [database_list_entriesWithMessage:responseHandler:callOptions:](#)
REQUIRED FOR PHASE 1 EVALUATION List the enrollments and associated metadata in the database.
- (GRPCUnaryProtoCall *) - [database_listWithMessage:responseHandler:callOptions:](#)
REQUIRED FOR PHASE 1 EVALUATION List the names of the galleries on this service.
- (GRPCUnaryProtoCall *) - [database_loadWithMessage:responseHandler:callOptions:](#)
REQUIRED Load database by name onto the server running the service.
- (GRPCUnaryProtoCall *) - [database_mergeWithMessage:responseHandler:callOptions:](#)
REQUIRED FOR PHASE 1 EVALUATION Merge a set of databases into a single database.
- (GRPCStreamingProtoCall *) - [database_move_entriesWithResponseHandler:callOptions:](#)
- (GRPCUnaryProtoCall *) - [database_move_entryWithMessage:responseHandler:callOptions:](#)
- (GRPCUnaryProtoCall *) - [database_refreshWithMessage:responseHandler:callOptions:](#)
REQUIRED explicit call to refresh the database list within the service, in case new databases were created by a parallel service that this one does not see.
- (GRPCUnaryProtoCall *) - [database_remove_templatesWithMessage:responseHandler:callOptions:](#)
REQUIRED Templates and associated records are deleted from a database.
- (GRPCUnaryProtoCall *) - [database_renameWithMessage:responseHandler:callOptions:](#)
REQUIRED Rename a database on the server.
- (GRPCStreamingProtoCall *) - [database_retrieveWithResponseHandler:callOptions:](#)
OPTIONAL Clients can retrieve templates with metadata from a database for client side storage, processing, backup, or for database management.
- (GRPCStreamingProtoCall *) - [detectWithResponseHandler:callOptions:](#)
REQUIRED Run detection on a media.
- (GRPCStreamingProtoCall *) - [enhanceWithResponseHandler:callOptions:](#)
OPTIONAL Enhance a media stream.
- (GRPCStreamingProtoCall *) - [enroll_subjectWithResponseHandler:callOptions:](#)
DEPRECATED for use only with legacy systems.
- (GRPCStreamingProtoCall *) - [enrollWithResponseHandler:callOptions:](#)

REQUIRED FOR PHASE 1 EVALUATION Detect and extracts templates from media and enrolls the results in a database.

- (GRPCStreamingProtoCall *) - [extractWithResponseHandler:callOptions:](#)

REQUIRED Run feature extraction on the provided detection.

- (GRPCUnaryProtoCall *) - [get_service_configurationWithMessage:responseHandler:callOptions:](#)
- (GRPCStreamingProtoCall *) - [searchWithResponseHandler:callOptions:](#)

REQUIRED Use provided template ids to search a database for that person.

- (GRPCUnaryProtoCall *) - [sigset_enroll_customWithMessage:responseHandler:callOptions:](#)

OPTIONAL FOR PHASE 1 EVALUATION, NOT FOR GENERAL PURPOSE USE.

- (GRPCUnaryProtoCall *) - [statusWithMessage:responseHandler:callOptions:](#)

REQUIRED Check service status.

- (GRPCStreamingProtoCall *) - [trackWithResponseHandler:callOptions:](#)

OPTIONAL To run tracking on video media.

- (GRPCStreamingProtoCall *) - [verifyWithResponseHandler:callOptions:](#)

REQUIRED Compare two template ids and verify if they are the same person.

5.35.1 Method Documentation

5.35.1.1 database_checkpoint_subjectWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_checkpoint_subjectWithMessage:
    (DatabaseCheckpointSubjectRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

OPTIONAL will signal to your algorithm that the media for a specific subject is finished, and possible finalization can be run.

5.35.1.2 database_checkpointWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_checkpointWithMessage:
    (DatabaseCheckpointRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

OPTIONAL will save a database's progress without finalizing.

5.35.1.3 database_compute_searchWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_compute_searchWithMessage:
    (SearchDatabaseRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a set of search results of size ProbeDatabase X Search Rank.

The matrix may be used for testing, analysis, client side clustering, etc. This may needed to be implemented to support evaluations in the future.

5.35.1.4 database_compute_verifyWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_compute_verifyWithMessage:
    (VerifyDatabaseRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED FOR PHASE 1 EVALUATION Given two database names compute a score matrix of size databaseA X databaseB.

The matrix may be used for testing, analysis, client side clustering, etc. This may needed to be implemented to support evaluations in the future.

5.35.1.5 database_createWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_createWithMessage:
    (DatabaseCreateRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Create and initialize a database on the server.

This should prepare the database to receive enrollment requests.

5.35.1.6 database_deleteWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_deleteWithMessage:
    (DatabaseDeleteRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Delete a database on the server.

This should remove the database and remove associated storage.

5.35.1.7 database_finalizeWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_finalizeWithMessage:
    (DatabaseFinalizeRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Called after all individuals have been enrolled.

Conduct any analysis of the database entries as needed or optimize for fast verification or search.

5.35.1.8 database_has_entriesWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) database_has_entriesWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

5.35.1.9 database_has_entryWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_has_entryWithMessage:
    (DatabaseHasEntryRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

5.35.1.10 database_infoWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_infoWithMessage:
    (DatabaseInfoRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED FOR PHASE 1 EVALUATION Return the associated summary information of a specific database.

5.35.1.11 database_insertWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_insertWithMessage:
    (DatabaseInsertRequest *) message
```

```
responseHandler:(id< GRPCProtoResponseHandler >) handler
callOptions:(GRPCCallOptions *_Nullable) callOptions
```

OPTIONAL Clients can insert templates directly into a database for database management purposes.

5.35.1.12 database_list_entriesWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_list_entriesWithMessage:
    (DatabaseListEntriesRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED FOR PHASE 1 EVALUATION List the enrollments and associated metadata in the database.

5.35.1.13 database_listWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_listWithMessage:
    (DatabaseListRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED FOR PHASE 1 EVALUATION List the names of the galleries on this service.

5.35.1.14 database_loadWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_loadWithMessage:
    (DatabaseLoadRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Load database by name onto the server running the service.

5.35.1.15 database_mergeWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_mergeWithMessage:
    (DatabaseMergeRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED FOR PHASE 1 EVALUATION Merge a set of databases into a single database.

5.35.1.16 database_move_entriesWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) database_move_entriesWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

5.35.1.17 database_move_entryWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_move_entryWithMessage:
    (DatabaseMoveEntryRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

5.35.1.18 database_refreshWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_refreshWithMessage:
    (Empty *) message
```

```
responseHandler:(id< GRPCProtoResponseHandler >) handler
callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED explicit call to refresh the database list within the service, in case new databases were created by a parallel service that this one does not see.

5.35.1.19 database_remove_templatesWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_remove_templatesWithMessage:
    (DatabaseRemoveTplRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Templates and associated records are deleted from a database.

5.35.1.20 database_renameWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) database_renameWithMessage:
    (DatabaseRenameRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Rename a database on the server.

This should rename the database.

5.35.1.21 database_retrieveWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) database_retrieveWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

OPTIONAL Clients can retrieve templates with metadata from a database for client side storage, processing, backup, or for database management.

5.35.1.22 detectWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) detectWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Run detection on a media.

Optionally this can also run attribute classification and template extraction. Implementation should be similar to enroll but with nothing stored in a database.

5.35.1.23 enhanceWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) enhanceWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

OPTIONAL Enhance a media stream.

This takes a media stream as an input and return a media stream of enhanced video.

5.35.1.24 enroll_subjectWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) enroll_subjectWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

DEPRECATED for use only with legacy systems.

5.35.1.25 enrollWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) enrollWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED FOR PHASE 1 EVALUATION Detect and extracts templates from media and enrolls the results in a database.

5.35.1.26 extractWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) extractWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Run feature extraction on the provided detection.

5.35.1.27 get_service_configurationWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) get_service_configurationWithMessage:
    (BriarServiceConfigurationRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

5.35.1.28 searchWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) searchWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Use provided template ids to search a database for that person.
Return a rank ordered list of results with scores.

5.35.1.29 sigset_enroll_customWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) sigset_enroll_customWithMessage:
    (EnrollCustomRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

OPTIONAL FOR PHASE 1 EVALUATION, NOT FOR GENERAL PURPOSE USE.

5.35.1.30 statusWithMessage:responseHandler:callOptions:

```
- (GRPCUnaryProtoCall *) statusWithMessage:
    (StatusRequest *) message
    responseHandler:(id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Check service status.

After connecting clients should typically call this function to insure that the service is in the READY state.

5.35.1.31 trackWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) trackWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

OPTIONAL To run tracking on video media.

5.35.1.32 verifyWithResponseHandler:callOptions:

```
- (GRPCStreamingProtoCall *) verifyWithResponseHandler:
    (id< GRPCProtoResponseHandler >) handler
    callOptions:(GRPCCallOptions *_Nullable) callOptions
```

REQUIRED Compare two template ids and verify if they are the same person.

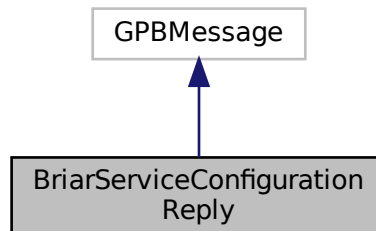
The documentation for this protocol was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbrpc.h](#)

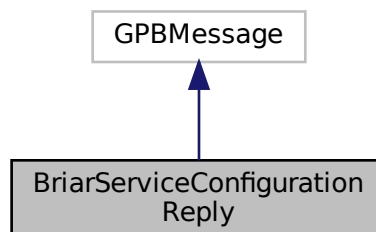
5.36 BriarServiceConfigurationReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for BriarServiceConfigurationReply:



Collaboration diagram for BriarServiceConfigurationReply:



Properties

- NSString * [basePort](#)
REQUIRED: the base port we should use as point-of-contact for main API calls.
- int32_t [numberOfProcessesPerPort](#)
REQUIRED: the amount of simultaneous processes that are running on each port (python processes dont share resources, they fork them)
- int32_t [numberOfServicePorts](#)
REQUIRED: the amount of different addresses your system will be using (e.g.

- `int32_t numberOfThreadsPerProcess`
REQUIRED: the amount of simultaneous threads running within each process (python threads do usually share reesources, but are constrained by the GIL)
- `NSMutableArray< NSString * > * portListArray`
Required: the list of ports that are running your services.
- `NSUInteger portListArray_Count`
The number of items in portListArray without causing the array to be created.
- `int32_t reportingProcessNumber`
REQUIRED: the process PID that is reporting this request.

5.36.1 Property Documentation

5.36.1.1 basePort

- (NSString*) basePort [read], [write], [nonatomic], [copy]

REQUIRED: the base port we should use as point-of-contact for main API calls.

If you have a single service, this is your services port

5.36.1.2 numberOfProcessesPerPort

- (int32_t) numberOfProcessesPerPort [read], [write], [nonatomic], [assign]

REQUIRED: the amount of simultaneous processes that are running on each port (python processes dont share resources, they fork them)

5.36.1.3 numberOfServicePorts

- (int32_t) numberOfServicePorts [read], [write], [nonatomic], [assign]

REQUIRED: the amount of different addresses your system will be using (e.g.

2 if using localhost:50051 and 50052)

5.36.1.4 numberOfThreadsPerProcess

- (int32_t) numberOfThreadsPerProcess [read], [write], [nonatomic], [assign]

REQUIRED: the amount of simultaneous threads running within each process (python threads do usually share reesources, but are constrained by the GIL)

5.36.1.5 portListArray

- (NSMutableArray<NSString*>*) portListArray [read], [write], [nonatomic], [strong]

Required: the list of ports that are running your services.

If you have a single service, this will contain just the base port.

5.36.1.6 portListArray_Count

- (NSUInteger) portListArray_Count [read], [nonatomic], [assign]

The number of items in portListArray without causing the array to be created.

5.36.1.7 reportingProcessNumber

- (int32_t) reportingProcessNumber [read], [write], [nonatomic], [assign]

REQUIRED: the process PID that is reporting this request.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.37 BriarServiceConfigurationReply__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSString * [basePort](#)
- int32_t [numberOfProcessesPerPort](#)
- int32_t [numberOfServicePorts](#)
- int32_t [numberOfThreadsPerProcess](#)
- NSMutableArray * [portListArray](#)
- int32_t [reportingProcessNumber](#)

5.37.1 Field Documentation

5.37.1.1 [_has_storage_](#)

- (uint32_t [_has_storage_](#)[1]) [protected]

5.37.1.2 [basePort](#)

- (NSString*) [basePort](#) [protected]

5.37.1.3 [numberOfProcessesPerPort](#)

- (int32_t) [numberOfProcessesPerPort](#) [protected]

5.37.1.4 [numberOfServicePorts](#)

- (int32_t) [numberOfServicePorts](#) [protected]

5.37.1.5 [numberOfThreadsPerProcess](#)

- (int32_t) [numberOfThreadsPerProcess](#) [protected]

5.37.1.6 [portListArray](#)

- (NSMutableArray*) [portListArray](#) [protected]

5.37.1.7 [reportingProcessNumber](#)

- (int32_t) [reportingProcessNumber](#) [protected]

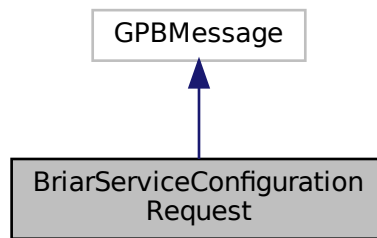
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

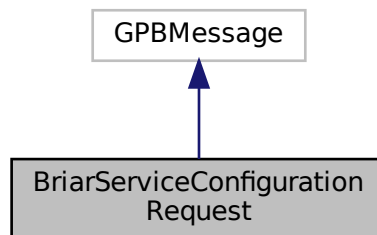
5.38 BriarServiceConfigurationRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for BriarServiceConfigurationRequest:



Collaboration diagram for BriarServiceConfigurationRequest:



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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.39 BriarServiceConfigurationRequest__storage_ Struct Reference

Protected Attributes

- [uint32_t _has_storage_ \[1\]](#)

5.39.1 Field Documentation

5.39.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

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

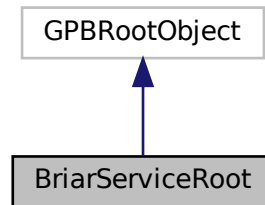
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

5.40 BriarServiceRoot Class Reference

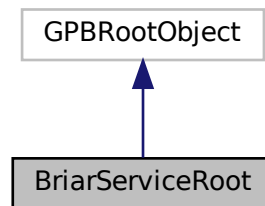
Exposes the extension registry for this file.

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for BriarServiceRoot:



Collaboration diagram for BriarServiceRoot:



5.40.1 Detailed Description

Exposes the extension registry for this file.

The base class provides:

```
+ (GPBExtensionRegistry *)extensionRegistry;
```

which is a `GPBExtensionRegistry` that includes all the extensions defined by this file and all files that it depends on.

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

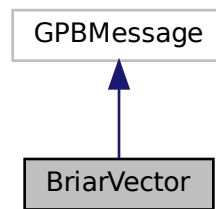
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.41 BriarVector Class Reference

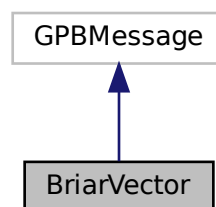
message to hold a vector

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for BriarVector:



Collaboration diagram for BriarVector:



Properties

- GPBFloatArray * [dataArray](#)
arbitrary length array to store vector
- NSUInteger [dataArray_Count](#)
The number of items in dataArray without causing the array to be created.

5.41.1 Detailed Description

message to hold a vector

5.41.2 Property Documentation

5.41.2.1 dataArray

– (GPBFloatArray*) dataArray [read], [write], [nonatomic], [strong]
arbitrary length array to store vector

5.41.2.2 dataArray_Count

- (NSUInteger) dataArray_Count [read], [nonatomic], [assign]

The number of items in dataArray without causing the array to be created.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.42 BriarVector__storage__ Struct Reference

Protected Attributes

- uint32_t _has_storage_ [1]
- GPBFloatArray * dataArray

5.42.1 Field Documentation

5.42.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.42.1.2 dataArray

- (GPBFloatArray*) dataArray [protected]

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

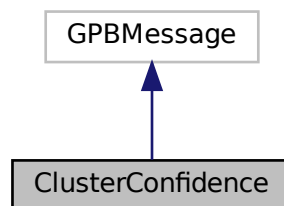
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.43 ClusterConfidence Class Reference

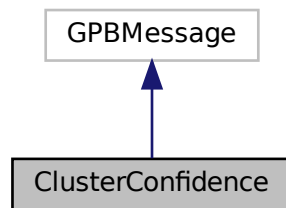
A messageure to represent a list of cluster confidence objects.

#import <Briar.pbobjc.h>

Inheritance diagram for ClusterConfidence:



Collaboration diagram for ClusterConfidence:



Properties

- double [confidences](#)
Confidence of the cluster.

5.43.1 Detailed Description

A messageure to represent a list of cluster confidence objects.

5.43.2 Property Documentation

5.43.2.1 confidences

– (double) `confidences` [read], [write], [nonatomic], [assign]

Confidence of the cluster.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h`

5.44 ClusterConfidence__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- double [confidences](#)

5.44.1 Field Documentation

5.44.1.1 _has_storage_

– (uint32_t `_has_storage_[1]`) [protected]

5.44.1.2 confidences

– (double) `confidences` [protected]

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

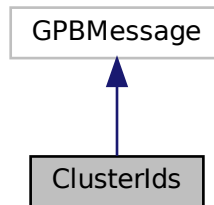
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m`

5.45 ClusterIds Class Reference

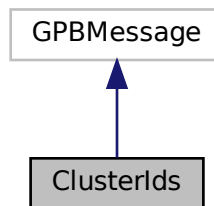
A message to represent a list of cluster ids objects.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for ClusterIds:



Collaboration diagram for ClusterIds:



Properties

- `NSMutableArray< NSString * > * idsArray`
List of ids to cluster.
- `NSUInteger idsArray_Count`
The number of items in `idsArray` without causing the array to be created.

5.45.1 Detailed Description

A message to represent a list of cluster ids objects.

5.45.2 Property Documentation

5.45.2.1 idsArray

```
- (NSMutableArray<NSString*>*) idsArray [read], [write], [nonatomic], [strong]
```

List of ids to cluster.

5.45.2.2 idsArray_Count

- (NSUInteger) idsArray_Count [read], [nonatomic], [assign]

The number of items in `idsArray` without causing the array to be created.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.46 ClusterIds__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [idsArray](#)

5.46.1 Field Documentation

5.46.1.1 _has_storage_

- (uint32_t [_has_storage_](#)[1]) [protected]

5.46.1.2 idsArray

- (NSMutableArray*) [idsArray](#) [protected]

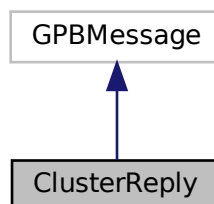
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

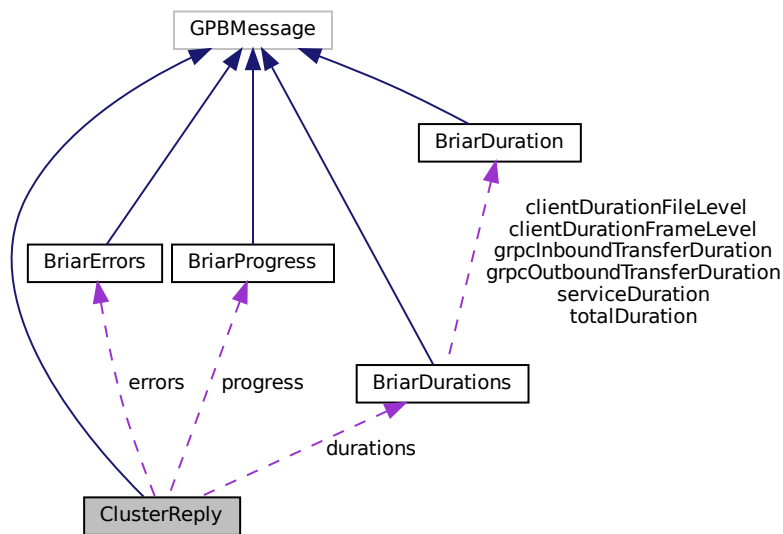
5.47 ClusterReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for ClusterReply:



Collaboration diagram for ClusterReply:



Properties

- NSMutableArray< ClusterConfidence * > * clusterConfidencesArray
UNIMPLEMENTED: List of the cluster confidences.
- NSUInteger clusterConfidencesArray_Count
The number of items in clusterConfidencesArray without causing the array to be created.
- NSMutableArray< ClusterIds * > * clusterIdsArray
UNIMPLEMENTED: List of clustered ids.
- NSUInteger clusterIdsArray_Count
The number of items in clusterIdsArray without causing the array to be created.
- BriarDurations * durations
UNIMPLEMENTED: Log the time needed to complete the request on the server.
- BriarErrors * errors
UNIMPLEMENTED: Indicate any errors or warnings.
- BOOL hasDurations
Test to see if durations has been set.
- BOOL hasErrors
Test to see if errors has been set.
- BOOL hasProgress
Test to see if progress has been set.
- BriarProgress * progress
UNIMPLEMENTED:: provides progress updates for progress bar display.

5.47.1 Property Documentation

5.47.1.1 clusterConfidencesArray

- (NSMutableArray<ClusterConfidence*>*) clusterConfidencesArray [read], [write], [nonatomic], [strong]

UNIMPLEMENTED: List of the cluster confidences.

5.47.1.2 clusterConfidencesArray_Count

- (NSUInteger) clusterConfidencesArray_Count [read], [nonatomic], [assign]

The number of items in clusterConfidencesArray without causing the array to be created.

5.47.1.3 clusterIdsArray

- (NSMutableArray<ClusterIds*>*) clusterIdsArray [read], [write], [nonatomic], [strong]

UNIMPLEMENTED: List of clustered ids.

5.47.1.4 clusterIdsArray_Count

- (NSUInteger) clusterIdsArray_Count [read], [nonatomic], [assign]

The number of items in clusterIdsArray without causing the array to be created.

5.47.1.5 durations

- (BriarDurations*) durations [read], [write], [nonatomic], [strong]

UNIMPLEMENTED: Log the time needed to complete the request on the server.

5.47.1.6 errors

- (BriarErrors*) errors [read], [write], [nonatomic], [strong]

UNIMPLEMENTED: Indicate any errors or warnings.

5.47.1.7 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if durations has been set.

5.47.1.8 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

Test to see if errors has been set.

5.47.1.9 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]

Test to see if progress has been set.

5.47.1.10 progress

- (BriarProgress*) progress [read], [write], [nonatomic], [strong]

UNIMPLEMENTED:: provides progress updates for progress bar display.

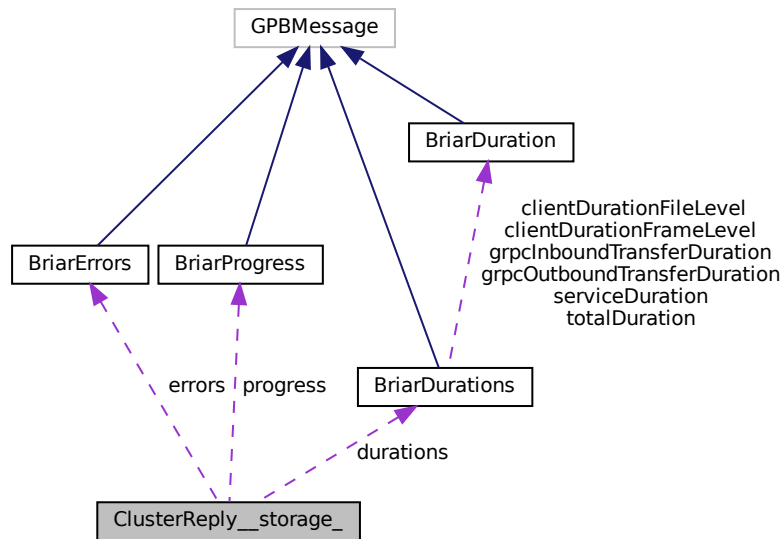
See example code for details

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.48 ClusterReply__storage_ Struct Reference

Collaboration diagram for ClusterReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `NSMutableArray * clusterConfidencesArray`
- `NSMutableArray * clusterIdsArray`
- `BriarDurations * durations`
- `BriarErrors * errors`
- `BriarProgress * progress`

5.48.1 Field Documentation

5.48.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.48.1.2 clusterConfidencesArray

```
- (NSMutableArray*) clusterConfidencesArray [protected]
```

5.48.1.3 clusterIdsArray

```
- (NSMutableArray*) clusterIdsArray [protected]
```

5.48.1.4 durations

- ([BriarDurations*](#)) durations [protected]

5.48.1.5 errors

- ([BriarErrors*](#)) errors [protected]

5.48.1.6 progress

- ([BriarProgress*](#)) progress [protected]

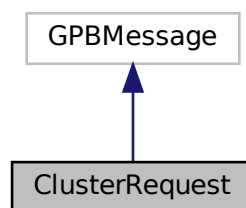
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

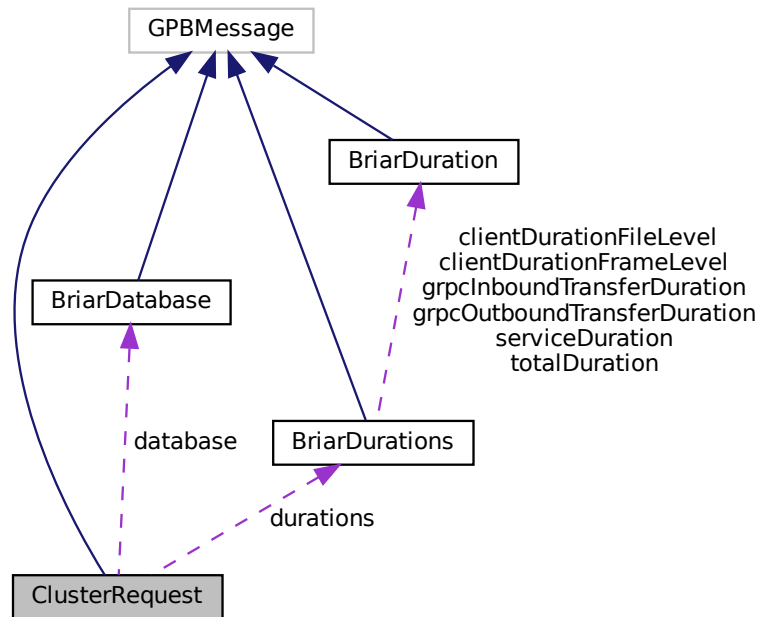
5.49 ClusterRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for ClusterRequest:



Collaboration diagram for ClusterRequest:



Properties

- **BriarDatabase** * **database**
UNIMPLEMENTED: Run clustering on a database of templates to group templates by person.
- **BriarDurations** * **durations**
UNIMPLEMENTED: Log the time needed to complete the request on the server.
- **BOOL** **hasDatabase**
Test to see if database has been set.
- **BOOL** **hasDurations**
Test to see if durations has been set.

5.49.1 Property Documentation

5.49.1.1 database

- (**BriarDatabase***) **database** [read], [write], [nonatomic], [strong]

UNIMPLEMENTED: Run clustering on a database of templates to group templates by person.

5.49.1.2 durations

- (**BriarDurations***) **durations** [read], [write], [nonatomic], [strong]

UNIMPLEMENTED: Log the time needed to complete the request on the server.

5.49.1.3 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

5.49.1.4 hasDurations

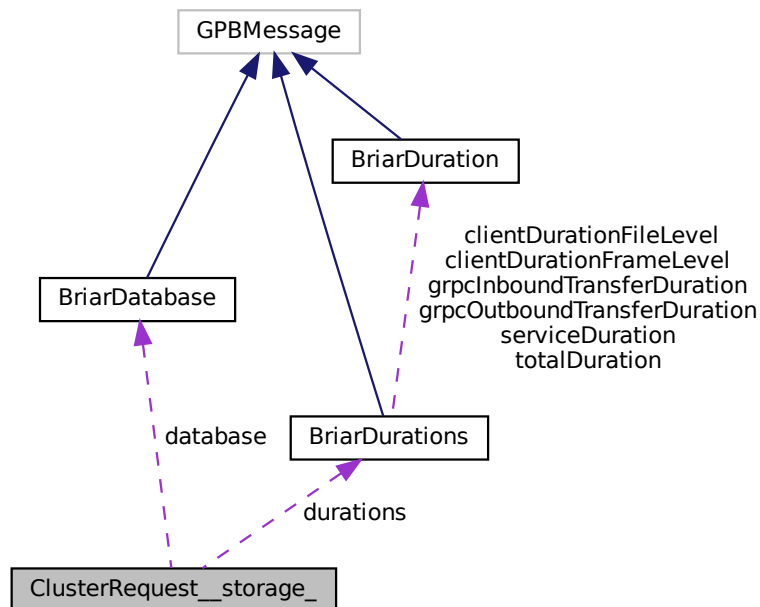
- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.50 ClusterRequest__storage_ Struct Reference

Collaboration diagram for ClusterRequest__storage_:



Protected Attributes

- uint32_t _has_storage_[1]
- BriarDatabase * database
- BriarDurations * durations

5.50.1 Field Documentation

5.50.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.50.1.2 database

```
- (BriarDatabase*) database [protected]
```

5.50.1.3 durations

```
- (BriarDurations*) durations [protected]
```

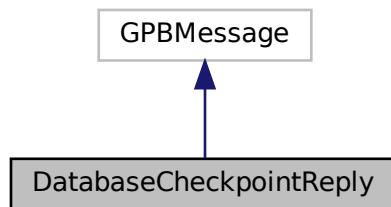
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

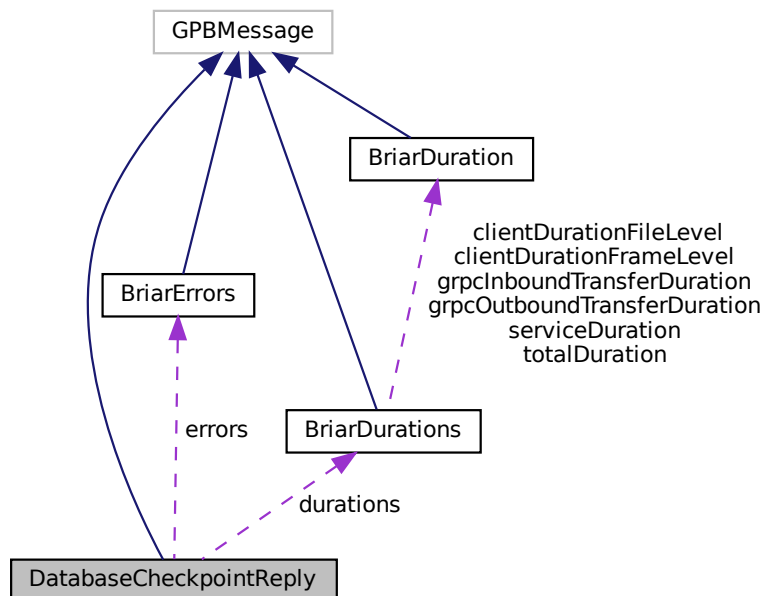
5.51 DatabaseCheckpointReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseCheckpointReply:



Collaboration diagram for DatabaseCheckpointReply:



Properties

- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- [BriarErrors](#) * [errors](#)
- `BOOL` [exists](#)
REQUIRED: set to true if the requested database exists and the reply is populated correctly.
- `BOOL` [hasDurations](#)
Test to see if `durations` has been set.
- `BOOL` [hasErrors](#)
Test to see if `errors` has been set.

5.51.1 Property Documentation

5.51.1.1 durations

- ([BriarDurations](#)*) `durations` [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.51.1.2 errors

- ([BriarErrors](#)*) `errors` [read], [write], [nonatomic], [strong]

5.51.1.3 exists

- (`BOOL`) `exists` [read], [write], [nonatomic], [assign]
REQUIRED: set to true if the requested database exists and the reply is populated correctly.

5.51.1.4 hasDurations

- (`BOOL`) `hasDurations` [read], [write], [nonatomic], [assign]
Test to see if `durations` has been set.

5.51.1.5 hasErrors

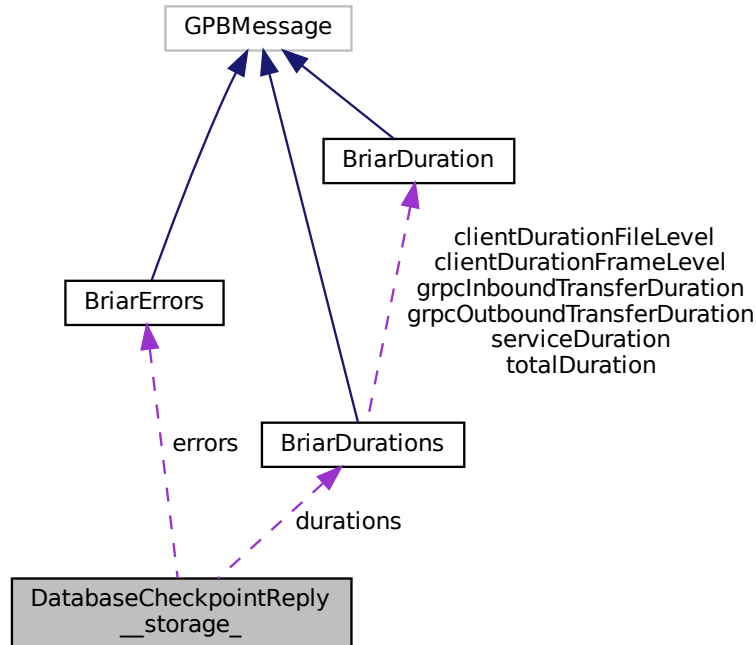
- (`BOOL`) `hasErrors` [read], [write], [nonatomic], [assign]
Test to see if `errors` has been set.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.52 DatabaseCheckpointReply__storage_ Struct Reference

Collaboration diagram for DatabaseCheckpointReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDurations * durations`
- `BriarErrors * errors`

5.52.1 Field Documentation

5.52.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.52.1.2 durations

- (`BriarDurations*`) `durations` [protected]

5.52.1.3 errors

- (`BriarErrors*`) `errors` [protected]

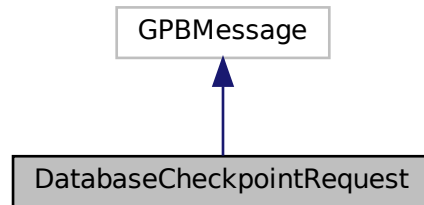
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

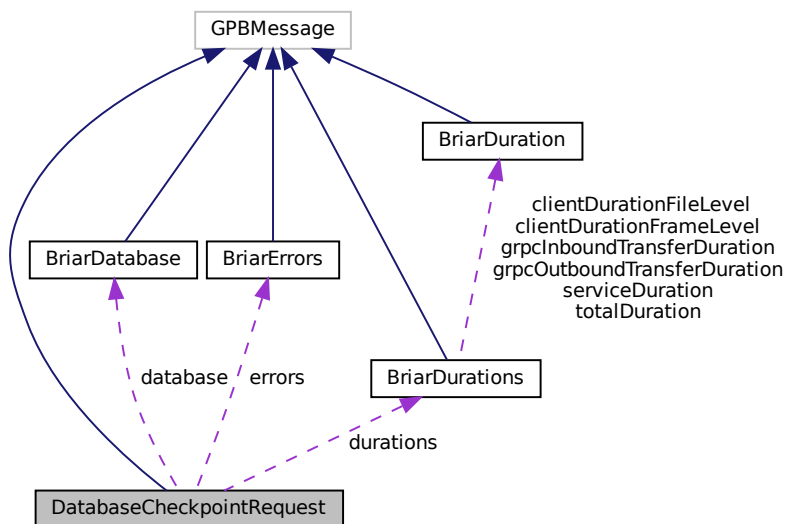
5.53 DatabaseCheckpointRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseCheckpointRequest:



Collaboration diagram for DatabaseCheckpointRequest:



Properties

- `BriarDatabase` * `database`
REQUIRED: Name of database to create.
- `BriarDurations` * `durations`
Log the time needed to complete the request on the server.
- `BriarErrors` * `errors`
- `BOOL` `hasDatabase`
Test to see if database has been set.
- `BOOL` `hasDurations`
Test to see if durations has been set.
- `BOOL` `hasErrors`
Test to see if errors has been set.

5.53.1 Property Documentation

5.53.1.1 database

- ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]

REQUIRED: Name of database to create.

5.53.1.2 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.53.1.3 errors

- ([BriarErrors*](#)) errors [read], [write], [nonatomic], [strong]

5.53.1.4 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]

Test to see if database has been set.

5.53.1.5 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if durations has been set.

5.53.1.6 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

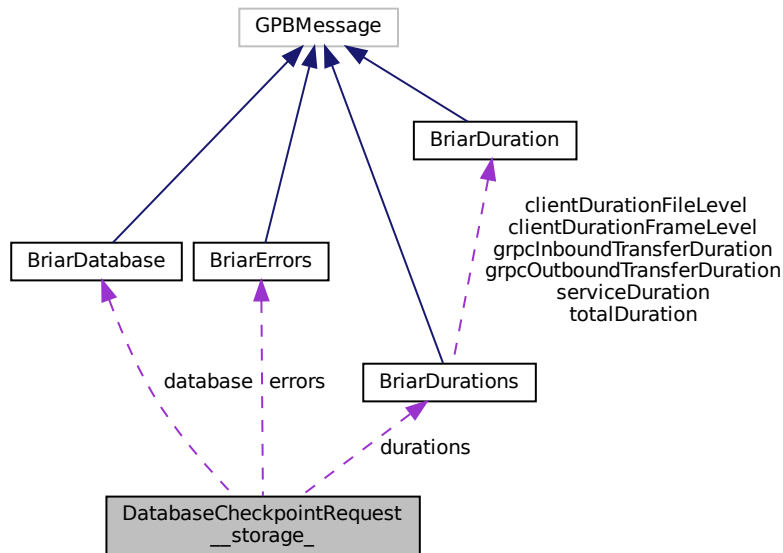
Test to see if errors has been set.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.54 DatabaseCheckpointRequest__storage__ Struct Reference

Collaboration diagram for DatabaseCheckpointRequest__storage__:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDatabase * database`
- `BriarDurations * durations`
- `BriarErrors * errors`

5.54.1 Field Documentation

5.54.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.54.1.2 database

```
- (BriarDatabase*) database [protected]
```

5.54.1.3 durations

```
- (BriarDurations*) durations [protected]
```

5.54.1.4 errors

```
- (BriarErrors*) errors [protected]
```

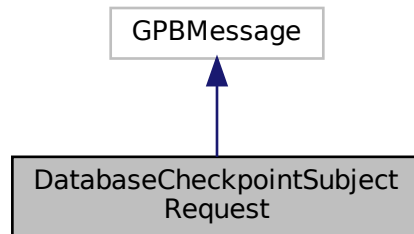
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

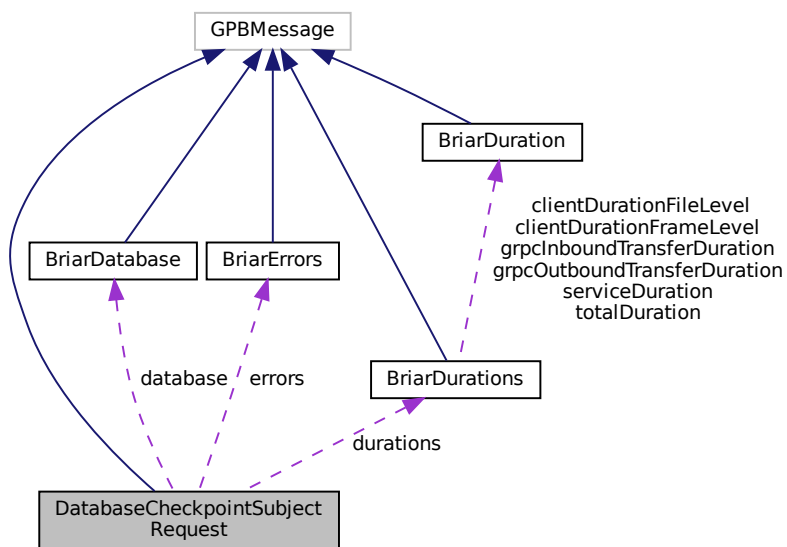
5.55 DatabaseCheckpointSubjectRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseCheckpointSubjectRequest:



Collaboration diagram for DatabaseCheckpointSubjectRequest:



Properties

- **BriarDatabase** * **database**
REQUIRED: Name of database to create.
- **BriarDurations** * **durations**
Log the time needed to complete the request on the server.
- **BriarErrors** * **errors**
- **BOOL** **hasDatabase**
Test to see if database has been set.
- **BOOL** **hasDurations**
Test to see if durations has been set.

- BOOL [hasErrors](#)
Test to see if `errors` has been set.
- NSString * [subjectId](#)
REQUIRED: Name of subject to finalize within database.

5.55.1 Property Documentation

5.55.1.1 database

- (BriarDatabase*) database [read], [write], [nonatomic], [strong]
REQUIRED: Name of database to create.

5.55.1.2 durations

- (BriarDurations*) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.55.1.3 errors

- (BriarErrors*) errors [read], [write], [nonatomic], [strong]

5.55.1.4 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

5.55.1.5 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.55.1.6 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]
Test to see if errors has been set.

5.55.1.7 subjectId

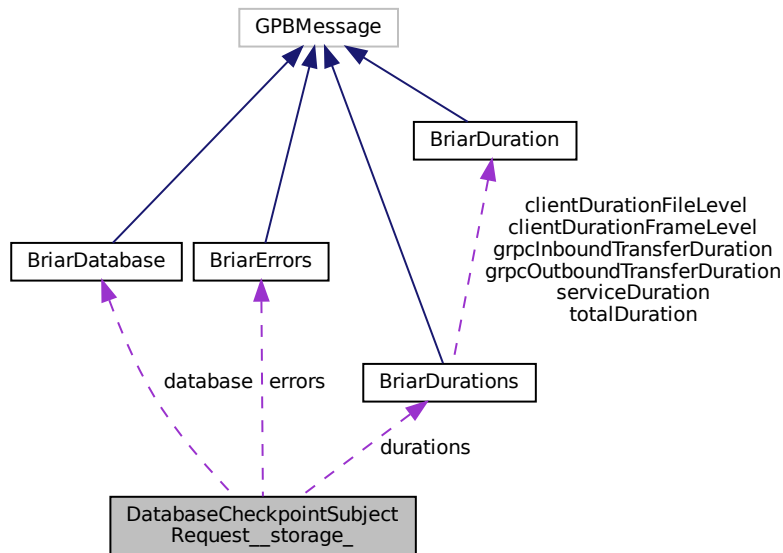
- (NSString*) subjectId [read], [write], [nonatomic], [copy]
REQUIRED: Name of subject to finalize within database.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.56 DatabaseCheckpointSubjectRequest__storage_ Struct Reference

Collaboration diagram for DatabaseCheckpointSubjectRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDatabase * database`
- `BriarDurations * durations`
- `BriarErrors * errors`
- `NSString * subjectId`

5.56.1 Field Documentation

5.56.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.56.1.2 database

```
- (BriarDatabase*) database [protected]
```

5.56.1.3 durations

```
- (BriarDurations*) durations [protected]
```

5.56.1.4 errors

```
- (BriarErrors*) errors [protected]
```

5.56.1.5 subjectId

```
- (NSString*) subjectId [protected]
```

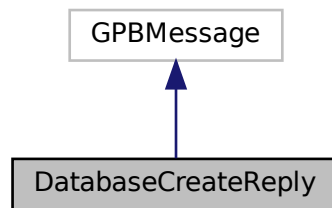
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

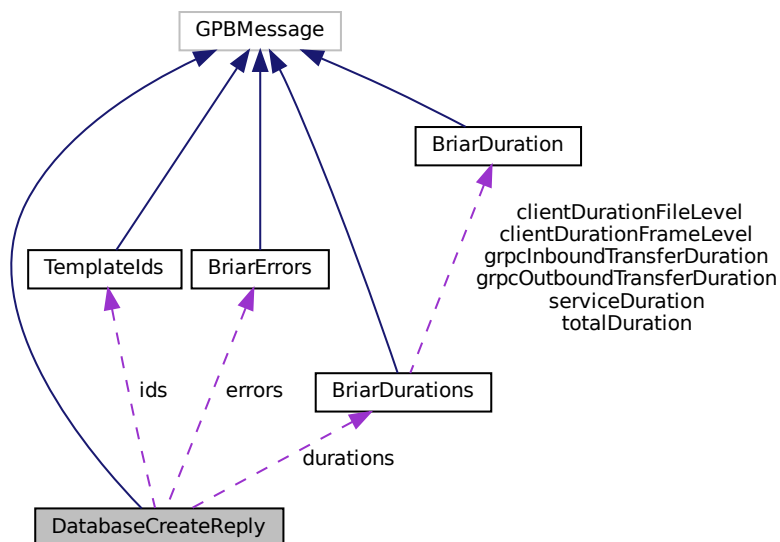
5.57 DatabaseCreateReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseCreateReply:



Collaboration diagram for DatabaseCreateReply:



Properties

- [BriarDurations](#) * **durations**

Log the time needed to complete the request on the server.

- [BriarErrors](#) * **errors**

- **BOOL** [hasDurations](#)
Test to see if durations has been set.
- **BOOL** [hasErrors](#)
Test to see if errors has been set.
- **BOOL** [hasIds](#)
Test to see if ids has been set.
- **TemplateIds** * [ids](#)
OPTIONAL: template IDs that new database has been created with.

5.57.1 Property Documentation

5.57.1.1 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.57.1.2 errors

- ([BriarErrors*](#)) errors [read], [write], [nonatomic], [strong]

5.57.1.3 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.57.1.4 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]
Test to see if errors has been set.

5.57.1.5 hasIds

- (BOOL) hasIds [read], [write], [nonatomic], [assign]
Test to see if ids has been set.

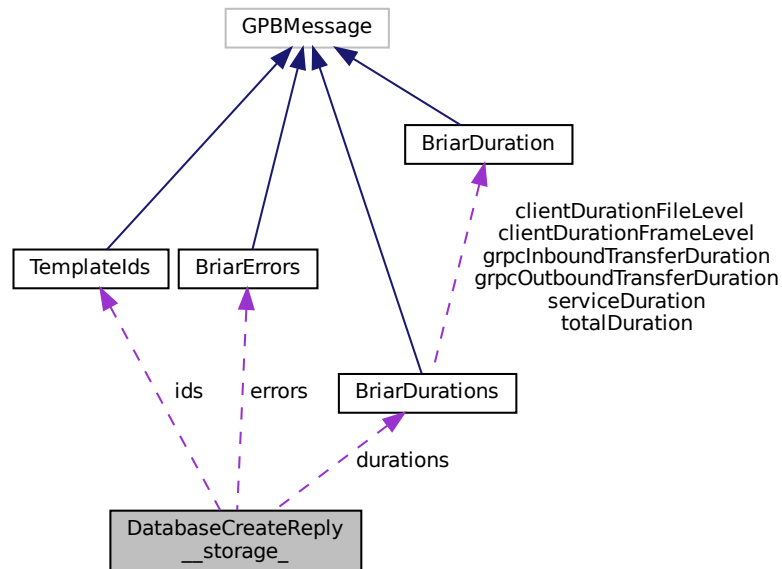
5.57.1.6 ids

- ([TemplateIds*](#)) ids [read], [write], [nonatomic], [strong]
OPTIONAL: template IDs that new database has been created with.
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.58 DatabaseCreateReply__storage__ Struct Reference

Collaboration diagram for DatabaseCreateReply__storage__:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDurations * durations`
- `BriarErrors * errors`
- `TemplateIds * ids`

5.58.1 Field Documentation

5.58.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.58.1.2 durations

- (`BriarDurations*`) `durations` [protected]

5.58.1.3 errors

- (`BriarErrors*`) `errors` [protected]

5.58.1.4 ids

- (`TemplateIds*`) `ids` [protected]

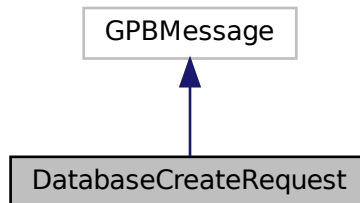
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

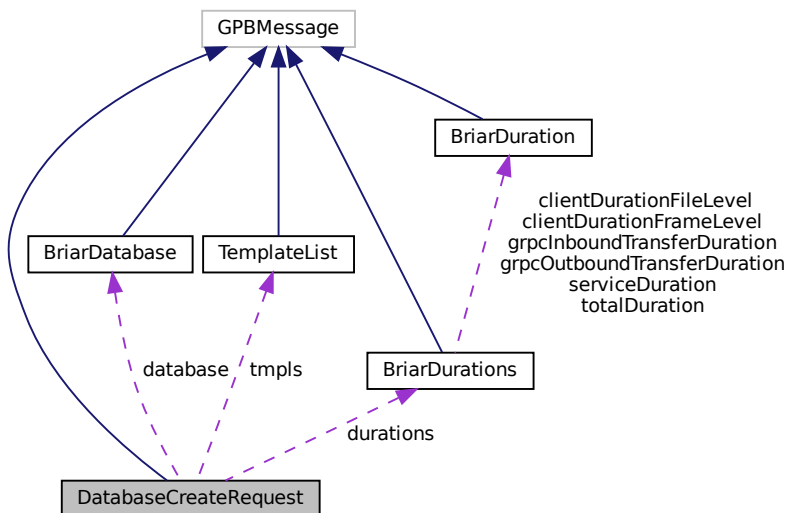
5.59 DatabaseCreateRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseCreateRequest:



Collaboration diagram for DatabaseCreateRequest:



Properties

- [BriarDatabase](#) * `database`
REQUIRED: Name of database to create.
- [BriarDurations](#) * `durations`
Log the time needed to complete the request on the server.
- BOOL [hasDatabase](#)
Test to see if database has been set.
- BOOL [hasDurations](#)
Test to see if durations has been set.

- [BOOL](#) [hasTmpls](#)
Test to see if `tpls` has been set.
- [TemplateList](#) * [tpls](#)
OPTIONAL: Templates to create database from.

5.59.1 Property Documentation

5.59.1.1 database

- ([BriarDatabase](#)*) database [read], [write], [nonatomic], [strong]
REQUIRED: Name of database to create.

5.59.1.2 durations

- ([BriarDurations](#)*) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.59.1.3 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

5.59.1.4 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.59.1.5 hasTmpls

- (BOOL) hasTmpls [read], [write], [nonatomic], [assign]
Test to see if `tpls` has been set.

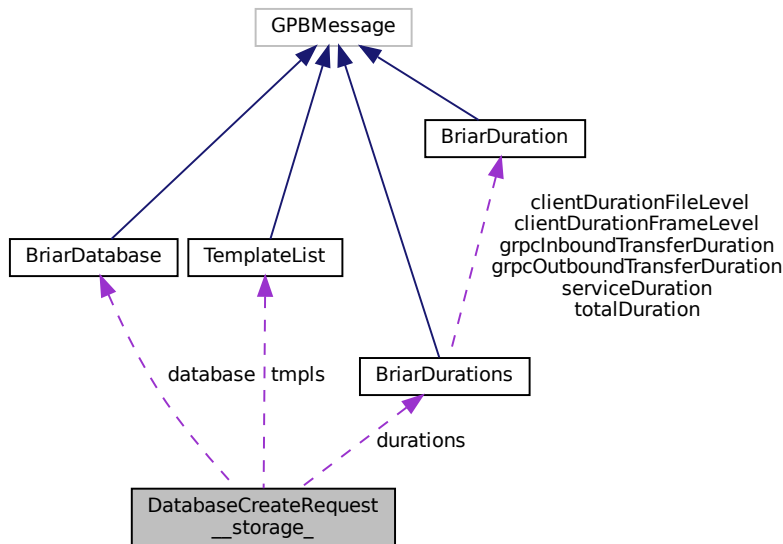
5.59.1.6 tpls

- ([TemplateList](#)*) tpls [read], [write], [nonatomic], [strong]
OPTIONAL: Templates to create database from.
The documentation for this class was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.60 DatabaseCreateRequest__storage_ Struct Reference

Collaboration diagram for DatabaseCreateRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `BriarDatabase * database`
- `BriarDurations * durations`
- `TemplateList * tmpls`

5.60.1 Field Documentation

5.60.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.60.1.2 database

```
- (BriarDatabase*) database [protected]
```

5.60.1.3 durations

```
- (BriarDurations*) durations [protected]
```

5.60.1.4 tmpls

```
- (TemplateList*) tmpls [protected]
```

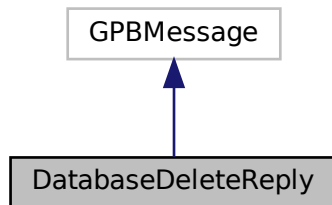
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

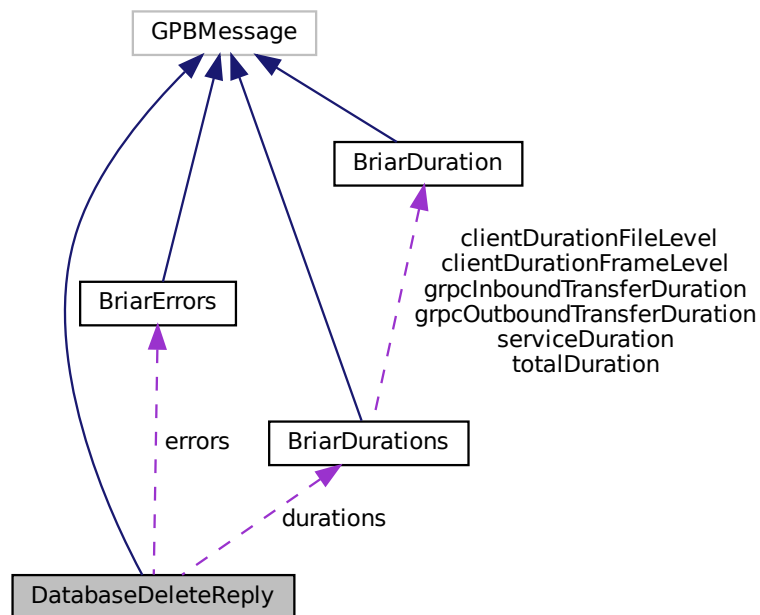
5.61 DatabaseDeleteReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseDeleteReply:



Collaboration diagram for DatabaseDeleteReply:



Properties

- `BriarDurations * durations`
- `int64_t entryCount`
REQUIRED: The number of entries deleted in the database.
- `BriarErrors * errors`
Aggregate errors which happened mid-batch.
- `BOOL exists`
REQUIRED: Set to false if the requested database did not exist.

- **BOOL** [hasDurations](#)
Test to see if durations has been set.
- **BOOL** [hasErrors](#)
Test to see if errors has been set.

5.61.1 Property Documentation

5.61.1.1 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]

5.61.1.2 entryCount

- (int64_t) entryCount [read], [write], [nonatomic], [assign]

REQUIRED: The number of entries deleted in the database.

5.61.1.3 errors

- ([BriarErrors*](#)) errors [read], [write], [nonatomic], [strong]

Aggregate errors which happened mid-batch.

5.61.1.4 exists

- (BOOL) exists [read], [write], [nonatomic], [assign]

REQUIRED: Set to false if the requested database did not exist.

5.61.1.5 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if durations has been set.

5.61.1.6 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

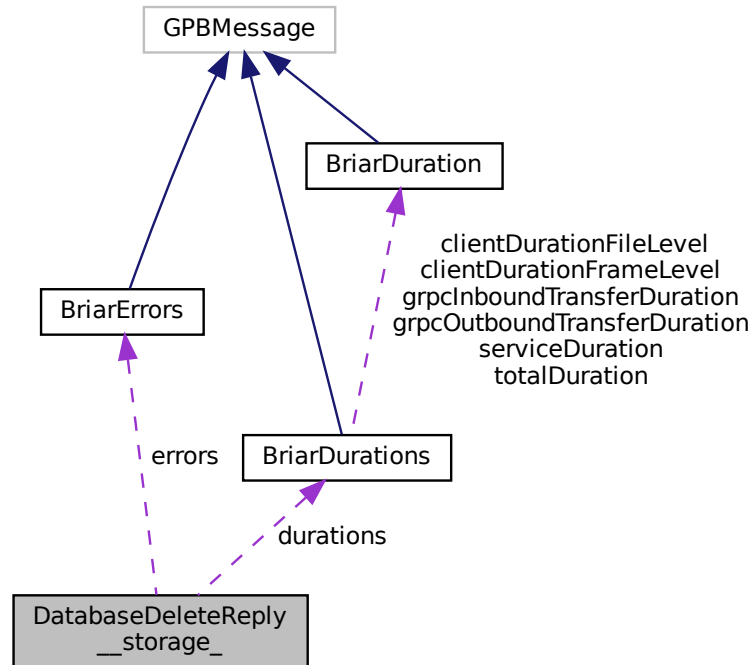
Test to see if errors has been set.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.62 DatabaseDeleteReply__storage__ Struct Reference

Collaboration diagram for DatabaseDeleteReply__storage__:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDurations * durations`
- `int64_t entryCount`
- `BriarErrors * errors`

5.62.1 Field Documentation

5.62.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.62.1.2 durations

- (`BriarDurations*`) `durations` [protected]

5.62.1.3 entryCount

- (`int64_t`) `entryCount` [protected]

5.62.1.4 errors

- ([BriarErrors*](#)) errors [protected]

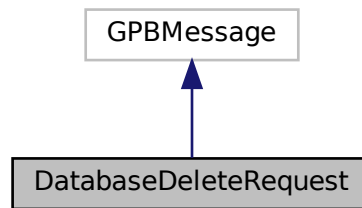
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

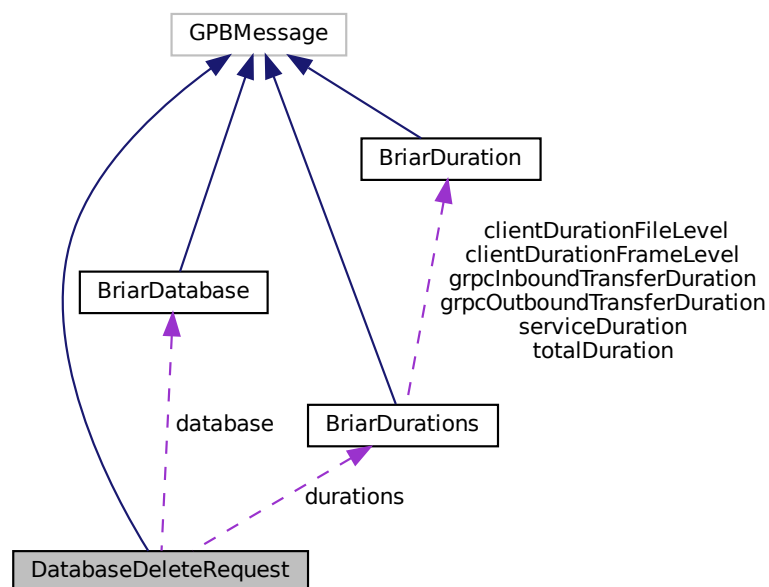
5.63 DatabaseDeleteRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseDeleteRequest:



Collaboration diagram for DatabaseDeleteRequest:



Properties

- [BriarDatabase](#) * `database`

REQUIRED: Database to remove from.

- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- BOOL [hasDatabase](#)
Test to see if database has been set.
- BOOL [hasDurations](#)
Test to see if durations has been set.

5.63.1 Property Documentation

5.63.1.1 database

- ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]
REQUIRED: Database to remove from.

5.63.1.2 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.63.1.3 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

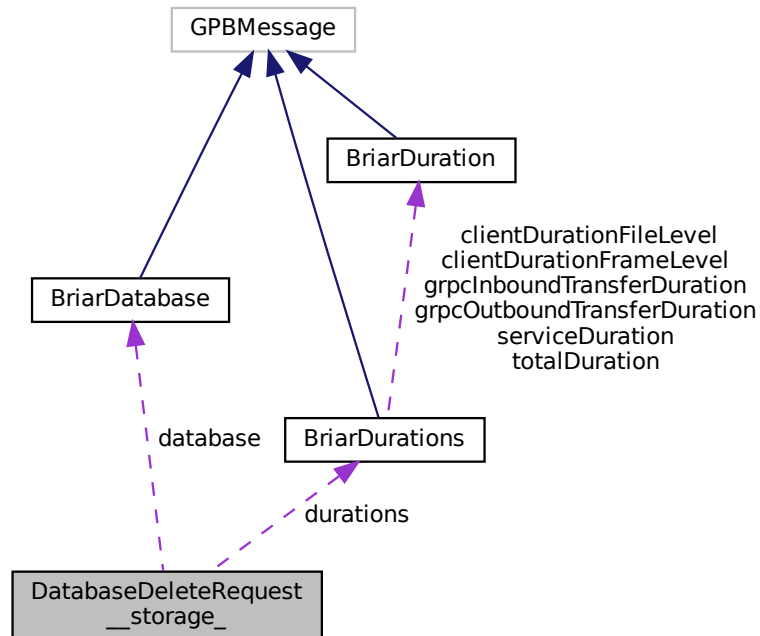
5.63.1.4 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.64 DatabaseDeleteRequest__storage_ Struct Reference

Collaboration diagram for DatabaseDeleteRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDatabase * database`
- `BriarDurations * durations`

5.64.1 Field Documentation

5.64.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.64.1.2 database

```
- (BriarDatabase*) database [protected]
```

5.64.1.3 durations

```
- (BriarDurations*) durations [protected]
```

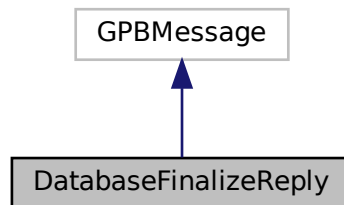
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

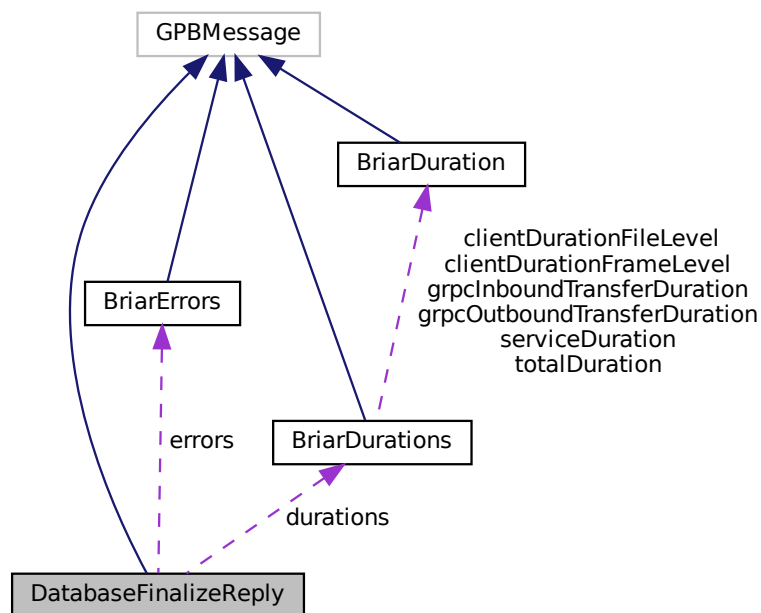
5.65 DatabaseFinalizeReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseFinalizeReply:



Collaboration diagram for DatabaseFinalizeReply:



Properties

- `BriarDurations` * `durations`
Log the time needed to complete the request on the server.
- `BriarErrors` * `errors`
Indicate any errors or warnings.
- `BOOL` `exists`
REQUIRED: set to true if the requested database exists and the reply is populated correctly.
- `BOOL` `hasDurations`

Test to see if `durations` has been set.

- **BOOL** [hasErrors](#)

Test to see if `errors` has been set.

5.65.1 Property Documentation

5.65.1.1 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.65.1.2 errors

- ([BriarErrors*](#)) errors [read], [write], [nonatomic], [strong]

Indicate any errors or warnings.

5.65.1.3 exists

- (BOOL) exists [read], [write], [nonatomic], [assign]

REQUIRED: set to true if the requested database exists and the reply is populated correctly.

5.65.1.4 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if `durations` has been set.

5.65.1.5 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

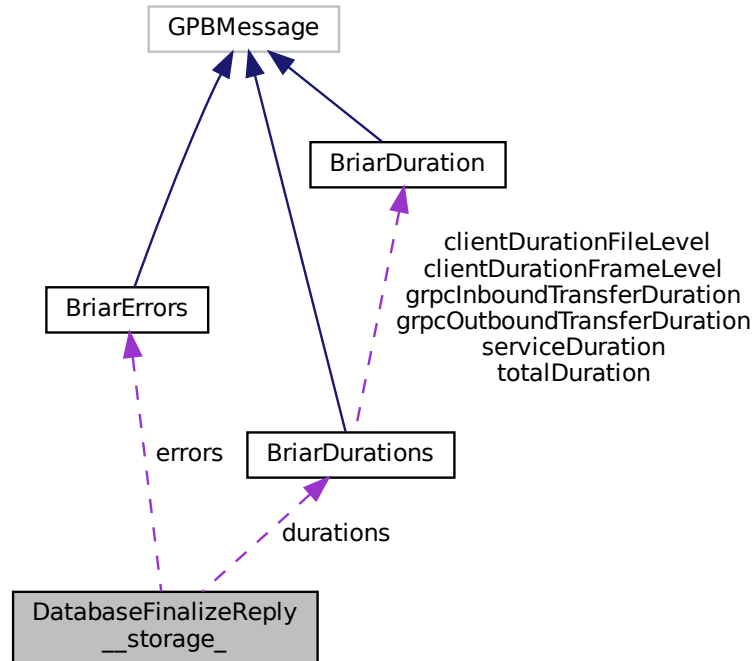
Test to see if `errors` has been set.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.66 DatabaseFinalizeReply__storage__ Struct Reference

Collaboration diagram for DatabaseFinalizeReply__storage__:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDurations * durations`
- `BriarErrors * errors`

5.66.1 Field Documentation

5.66.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.66.1.2 durations

```
- (BriarDurations*) durations [protected]
```

5.66.1.3 errors

```
- (BriarErrors*) errors [protected]
```

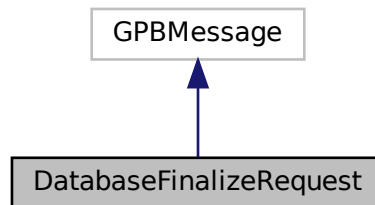
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

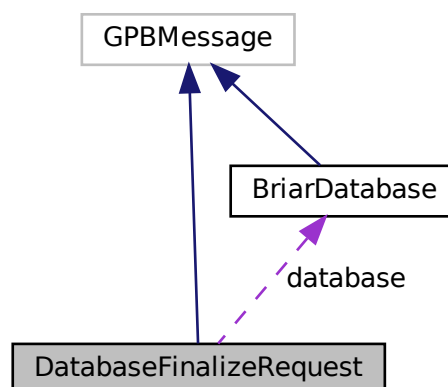
5.67 DatabaseFinalizeRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseFinalizeRequest:



Collaboration diagram for DatabaseFinalizeRequest:



Properties

- `BriarDatabase *` `database`
The database to optimize.
- `BOOL` `hasDatabase`
Test to see if `database` has been set.

5.67.1 Property Documentation

5.67.1.1 database

```
- (BriarDatabase*) database [read], [write], [nonatomic], [strong]
```

The database to optimize.

5.67.1.2 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]

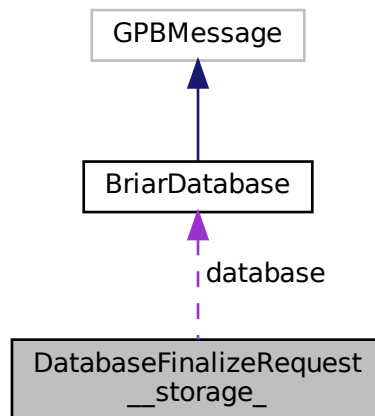
Test to see if database has been set.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.68 DatabaseFinalizeRequest__storage_ Struct Reference

Collaboration diagram for DatabaseFinalizeRequest__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- [BriarDatabase](#) * [database](#)

5.68.1 Field Documentation

5.68.1.1 _has_storage_

- (uint32_t [_has_storage_](#)[1]) [protected]

5.68.1.2 database

- ([BriarDatabase](#)*) [database](#) [protected]

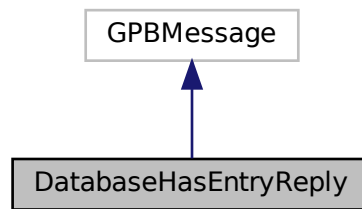
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

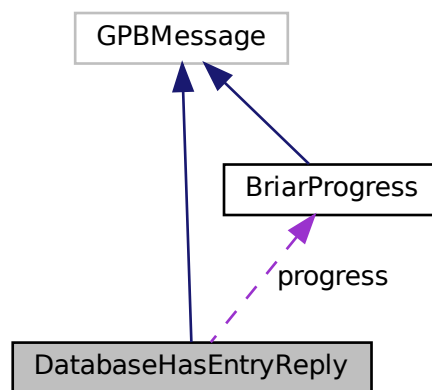
5.69 DatabaseHasEntryReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseHasEntryReply:



Collaboration diagram for DatabaseHasEntryReply:



Properties

- `BOOL exists`
- `BOOL hasProgress`
Test to see if `progress` has been set.
- `BOOL isComplete`
- `BriarProgress * progress`

5.69.1 Property Documentation

5.69.1.1 exists

- (`BOOL`) `exists` [`read`], [`write`], [`nonatomic`], [`assign`]

5.69.1.2 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]
 Test to see if progress has been set.

5.69.1.3 isComplete

- (BOOL) isComplete [read], [write], [nonatomic], [assign]

5.69.1.4 progress

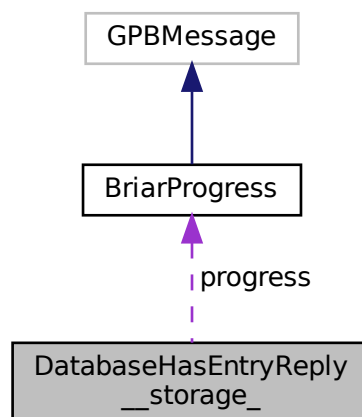
- (BriarProgress*) progress [read], [write], [nonatomic], [strong]

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.70 DatabaseHasEntryReply__storage_ Struct Reference

Collaboration diagram for DatabaseHasEntryReply__storage_:



Protected Attributes

- uint32_t _has_storage_ [1]
- BriarProgress * progress

5.70.1 Field Documentation

5.70.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.70.1.2 progress

- ([BriarProgress*](#)) progress [protected]

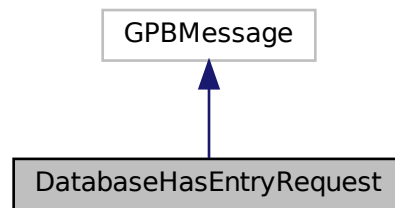
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

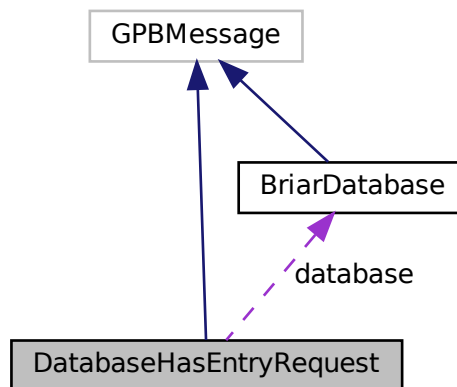
5.71 DatabaseHasEntryRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseHasEntryRequest:



Collaboration diagram for DatabaseHasEntryRequest:



Properties

- [BriarDatabase *](#) `database`
- `NSString *` `entryId`
- `BOOL` [hasDatabase](#)

Test to see if `database` has been set.

5.71.1 Property Documentation

5.71.1.1 database

- ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]

5.71.1.2 entryId

- (NSString*) entryId [read], [write], [nonatomic], [copy]

5.71.1.3 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]

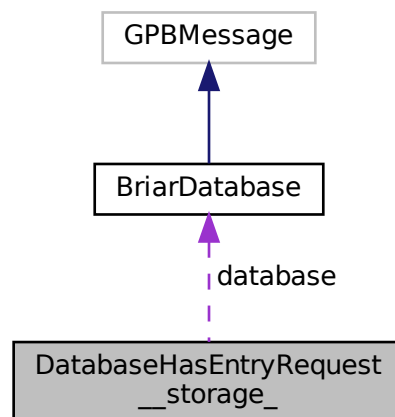
Test to see if database has been set.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.72 DatabaseHasEntryRequest__storage__ Struct Reference

Collaboration diagram for DatabaseHasEntryRequest__storage__:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- [BriarDatabase](#) * [database](#)
- NSString * [entryId](#)

5.72.1 Field Documentation

5.72.1.1 `_has_storage_`

```
- (uint32_t _has_storage_[1]) [protected]
```

5.72.1.2 `database`

```
- (BriarDatabase*) database [protected]
```

5.72.1.3 `entryId`

```
- (NSString*) entryId [protected]
```

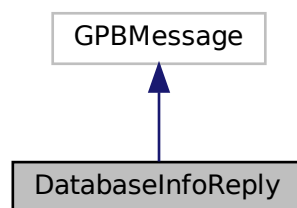
The documentation for this struct was generated from the following file:

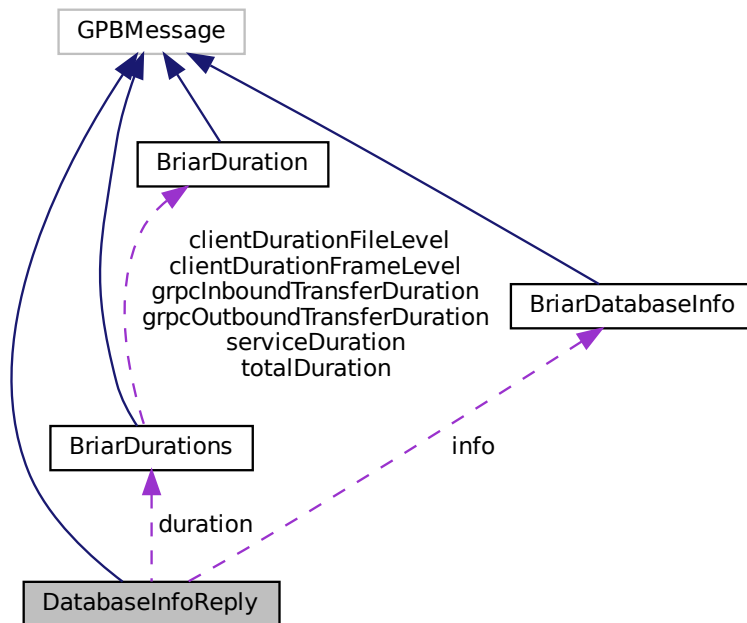
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

5.73 DatabaseInfoReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseInfoReply:





- $\text{BriarDurations} * \text{duration}$

- **BriarDurations** * **duration**
Log the time needed to complete the request on the server.
- **BOOL** **exists**
REQUIRED: set to true if the requested database exists and the reply is populated correctly.
- **BOOL** **hasDuration**
Test to see if `duration` has been set.
- **BOOL** **hasInfo**
Test to see if `info` has been set.
- **BriarDatabaseInfo** * **info**
REQUIRED Contains the information about the database.

5.73.1.1 duration

```
- (BriarDurations*) duration [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.
```

- (BOOL) exists [read], [write], [nonatomic], [assign]

REQUIRED: set to true if the requested database exists and the reply is populated correctly.

5.73.1.3 hasDuration

- (BOOL) hasDuration [read], [write], [nonatomic], [assign]
Test to see if duration has been set.

5.73.1.4 hasInfo

- (BOOL) hasInfo [read], [write], [nonatomic], [assign]
Test to see if info has been set.

5.73.1.5 info

- (BriarDatabaseInfo*) info [read], [write], [nonatomic], [strong]

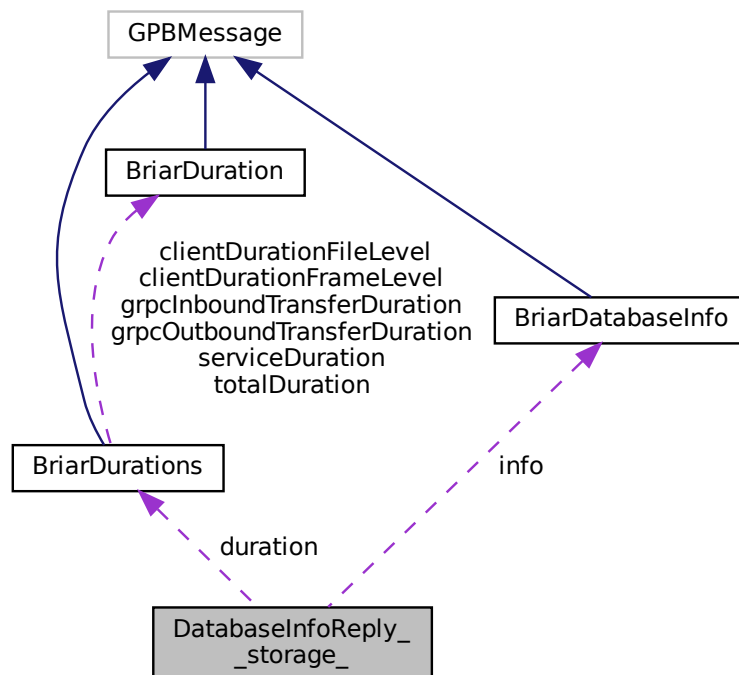
REQUIRED Contains the information about the database.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.74 DatabaseInfoReply__storage_ Struct Reference

Collaboration diagram for DatabaseInfoReply__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `BriarDurations * duration`
- `BriarDatabaseInfo * info`

5.74.1 Field Documentation

5.74.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.74.1.2 `duration`

- ([BriarDurations*](#)) `duration` [protected]

5.74.1.3 `info`

- ([BriarDatabaseInfo*](#)) `info` [protected]

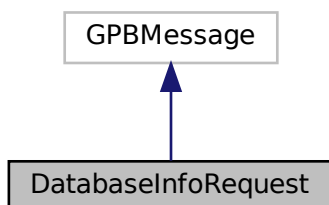
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

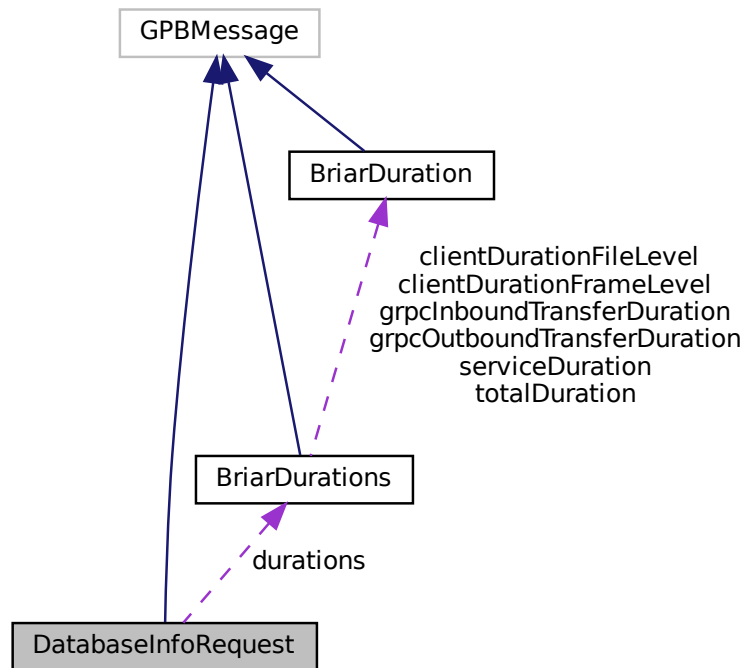
5.75 DatabaseInfoRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseInfoRequest:



Collaboration diagram for DatabaseInfoRequest:



Properties

- NSString * [databaseName](#)
REQUIRED Name of the database to retrieve info for.
- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- BOOL [hasDurations](#)
*Test to see if *durations* has been set.*

5.75.1 Property Documentation

5.75.1.1 databaseName

```

- (NSString*) databaseName [read], [write], [nonatomic], [copy]
REQUIRED Name of the database to retrieve info for.

```

5.75.1.2 durations

```

- (BriarDurations*) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

```

5.75.1.3 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

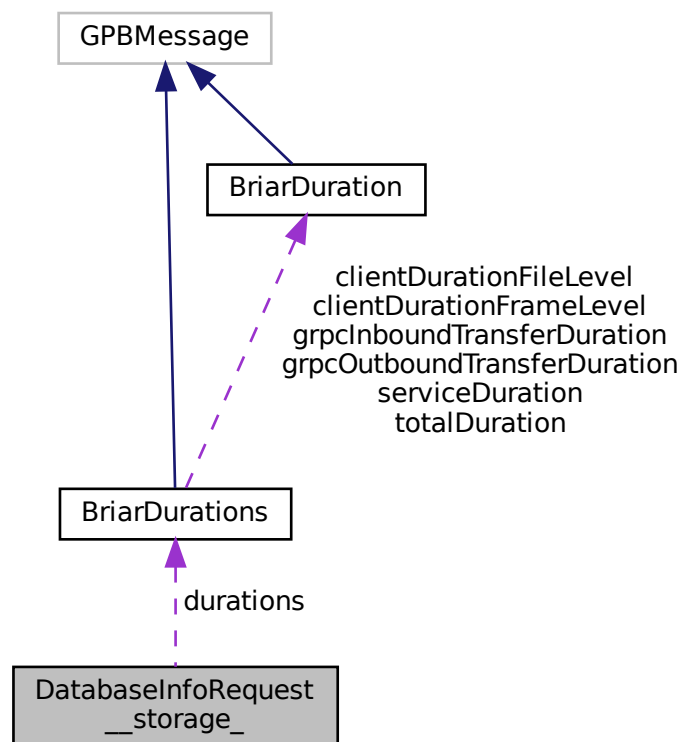
Test to see if durations has been set.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.76 DatabaseInfoRequest__storage_ Struct Reference

Collaboration diagram for DatabaseInfoRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `NSString * databaseName`
- `BriarDurations * durations`

5.76.1 Field Documentation

5.76.1.1 _has_storage_

- (`uint32_t` _has_storage_[1]) [protected]

5.76.1.2 databaseName

```
- (NSString*) databaseName [protected]
```

5.76.1.3 durations

```
- (BriarDurations*) durations [protected]
```

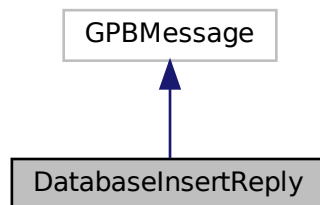
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

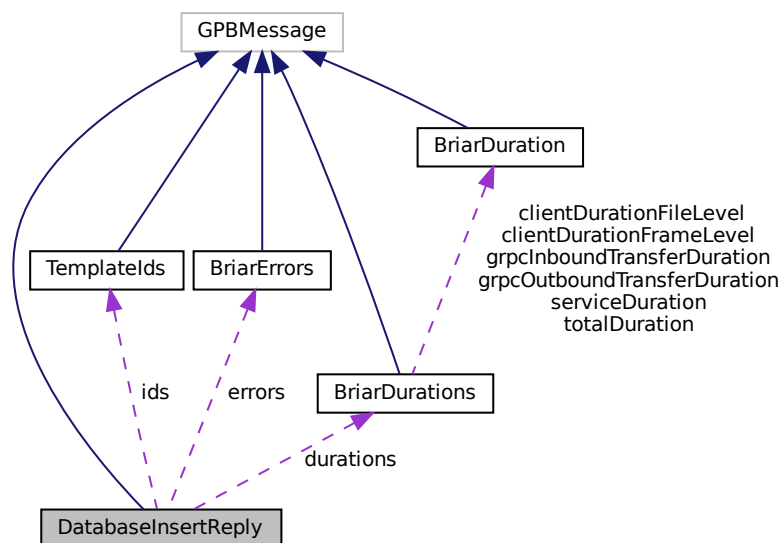
5.77 DatabaseInsertReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseInsertReply:



Collaboration diagram for DatabaseInsertReply:



Properties

- [BriarDurations](#) * [durations](#)
OPTIONAL: Log the time needed to complete the request on the server.
- [BriarErrors](#) * [errors](#)
- `BOOL` [exists](#)
OPTIONAL: REQUIRED: Set to false if the requested database did not exist.
- `BOOL` [hasDurations](#)
Test to see if `durations` has been set.
- `BOOL` [hasErrors](#)
Test to see if `errors` has been set.
- `BOOL` [hasIds](#)
Test to see if `ids` has been set.
- [TemplatIds](#) * [ids](#)
OPTIONAL: Database ids of the templates.

5.77.1 Property Documentation

5.77.1.1 durations

- ([BriarDurations](#)*) `durations` [read], [write], [nonatomic], [strong]
 OPTIONAL: Log the time needed to complete the request on the server.

5.77.1.2 errors

- ([BriarErrors](#)*) `errors` [read], [write], [nonatomic], [strong]

5.77.1.3 exists

- (`BOOL`) `exists` [read], [write], [nonatomic], [assign]
 OPTIONAL: REQUIRED: Set to false if the requested database did not exist.

5.77.1.4 hasDurations

- (`BOOL`) `hasDurations` [read], [write], [nonatomic], [assign]
 Test to see if `durations` has been set.

5.77.1.5 hasErrors

- (`BOOL`) `hasErrors` [read], [write], [nonatomic], [assign]
 Test to see if `errors` has been set.

5.77.1.6 hasIds

- (`BOOL`) `hasIds` [read], [write], [nonatomic], [assign]
 Test to see if `ids` has been set.

5.77.1.7 ids

- ([TemplateIds*](#)) ids [read], [write], [nonatomic], [strong]

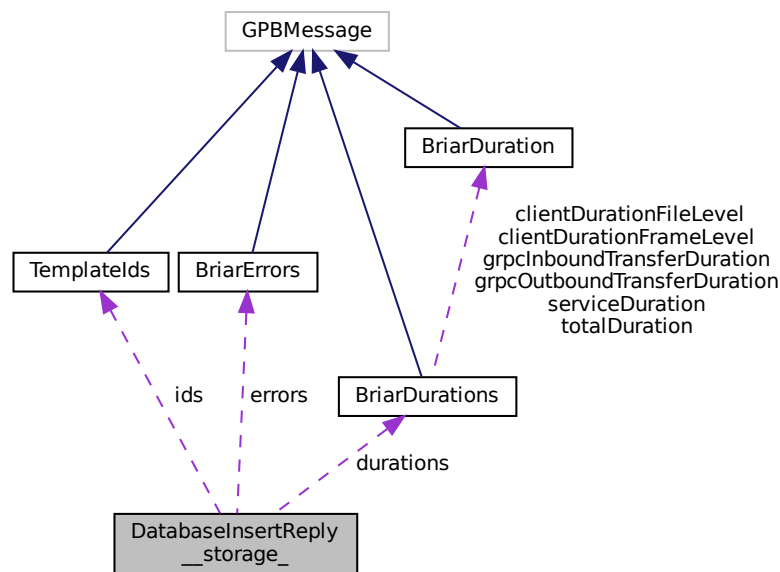
OPTIONAL: Database ids of the templates.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.78 DatabaseInsertReply__storage_ Struct Reference

Collaboration diagram for DatabaseInsertReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDurations * durations`
- `BriarErrors * errors`
- `TemplateIds * ids`

5.78.1 Field Documentation

5.78.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.78.1.2 durations

- (`BriarDurations*`) durations [protected]

5.78.1.3 errors

- ([BriarErrors*](#)) errors [protected]

5.78.1.4 ids

- ([TemplateIds*](#)) ids [protected]

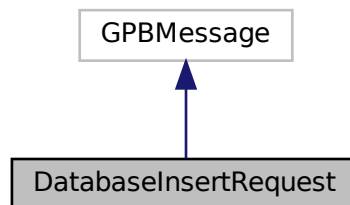
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

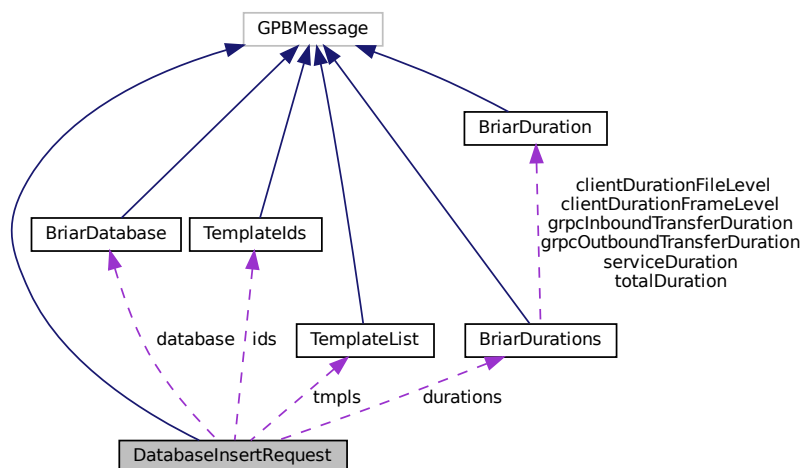
5.79 DatabaseInsertRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseInsertRequest:



Collaboration diagram for DatabaseInsertRequest:



Properties

- [BriarDatabase](#) * **database**

- OPTIONAL: Database to batch insert into.*
- [BriarDurations](#) * [durations](#)
 - OPTIONAL: Log the time needed to complete the request on the server.*
- [BOOL](#) [hasDatabase](#)
 - Test to see if database has been set.*
- [BOOL](#) [hasDurations](#)
 - Test to see if durations has been set.*
- [BOOL](#) [hasIds](#)
 - Test to see if ids has been set.*
- [BOOL](#) [hasTmpls](#)
 - Test to see if tmpl's has been set.*
- [TemplateIds](#) * [ids](#)
 - OPTIONAL: IDs of templates to insert.*
- [TemplateList](#) * [tmpl's](#)
 - OPTIONAL: Templates to insert.*

5.79.1 Property Documentation

5.79.1.1 database

- ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]
 OPTIONAL: Database to batch insert into.

5.79.1.2 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]
 OPTIONAL: Log the time needed to complete the request on the server.

5.79.1.3 hasDatabase

- ([BOOL](#)) hasDatabase [read], [write], [nonatomic], [assign]
 Test to see if database has been set.

5.79.1.4 hasDurations

- ([BOOL](#)) hasDurations [read], [write], [nonatomic], [assign]
 Test to see if durations has been set.

5.79.1.5 hasIds

- ([BOOL](#)) hasIds [read], [write], [nonatomic], [assign]
 Test to see if ids has been set.

5.79.1.6 hasTmpls

- ([BOOL](#)) hasTmpls [read], [write], [nonatomic], [assign]
 Test to see if tmpl's has been set.

5.79.1.7 ids

- ([TemplateIds*](#)) ids [read], [write], [nonatomic], [strong]
 OPTIONAL: IDs of templates to insert.

5.79.1.8 tmpls

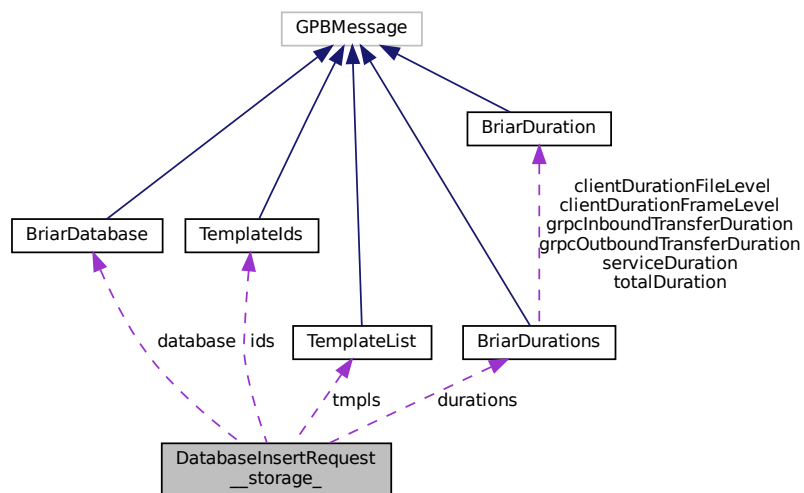
- ([TemplateList*](#)) tmpls [read], [write], [nonatomic], [strong]
 OPTIONAL: Templates to insert.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.80 DatabaseInsertRequest__storage__ Struct Reference

Collaboration diagram for DatabaseInsertRequest__storage__:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDatabase * database`
- `BriarDurations * durations`
- `TemplateIds * ids`
- `TemplateList * tmpls`

5.80.1 Field Documentation

5.80.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.80.1.2 database

- ([BriarDatabase*](#)) database [protected]

5.80.1.3 durations

- ([BriarDurations*](#)) durations [protected]

5.80.1.4 ids

- ([TemplateIds*](#)) ids [protected]

5.80.1.5 tmpls

- ([TemplateList*](#)) tmpls [protected]

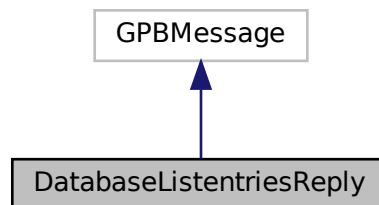
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

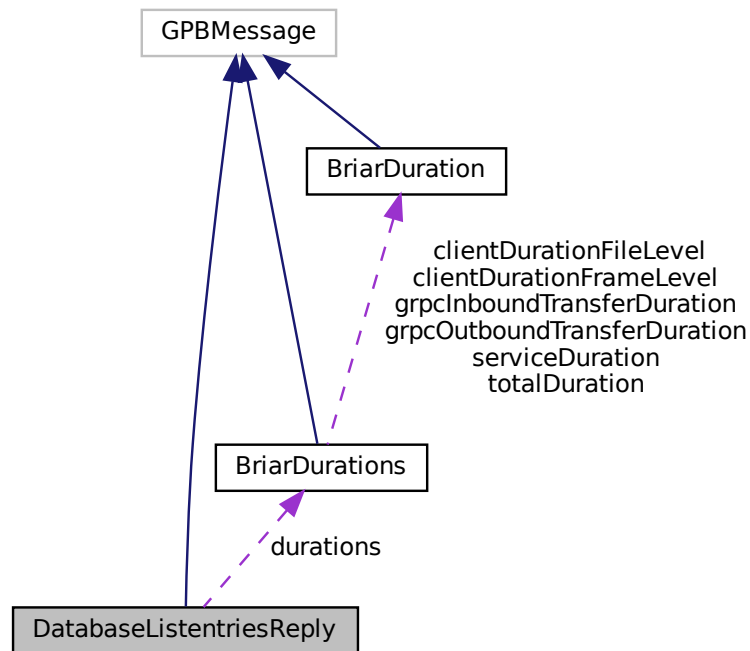
5.81 DatabaseListentriesReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseListentriesReply:



Collaboration diagram for DatabaseListentriesReply:



Properties

- [BriarDurations](#) * [durations](#)
Duration of retrieving entries.
- NSMutableArray< [FrameMetadata](#) * > * [entryAttributesArray](#)
List of attributes for each entry.
- NSUInteger [entryAttributesArray_Count](#)
The number of items in `entryAttributesArray` without causing the array to be created.
- NSMutableArray< NSString * > * [entryIdsArray](#)
REQUIRED List of entry IDs for the given database.
- NSUInteger [entryIdsArray_Count](#)
The number of items in `entryIdsArray` without causing the array to be created.
- BOOL [exists](#)
Flag defining if the requested database exists.
- BOOL [hasDurations](#)
Test to see if `durations` has been set.

5.81.1 Property Documentation

5.81.1.1 durations

– ([BriarDurations](#)*) durations [read], [write], [nonatomic], [strong]
Duration of retrieving entries.

5.81.1.2 entryAttributesArray

- (NSMutableArray<FrameMetadata*>*) entryAttributesArray [read], [write], [nonatomic], [strong]
List of attributes for each entry.

5.81.1.3 entryAttributesArray_Count

- (NSUInteger) entryAttributesArray_Count [read], [nonatomic], [assign]
The number of items in entryAttributesArray without causing the array to be created.

5.81.1.4 entryIdsArray

- (NSMutableArray<NSString*>*) entryIdsArray [read], [write], [nonatomic], [strong]
REQUIRED List of entry IDs for the given database.

5.81.1.5 entryIdsArray_Count

- (NSUInteger) entryIdsArray_Count [read], [nonatomic], [assign]
The number of items in entryIdsArray without causing the array to be created.

5.81.1.6 exists

- (BOOL) exists [read], [write], [nonatomic], [assign]
Flag defining if the requested database exists.

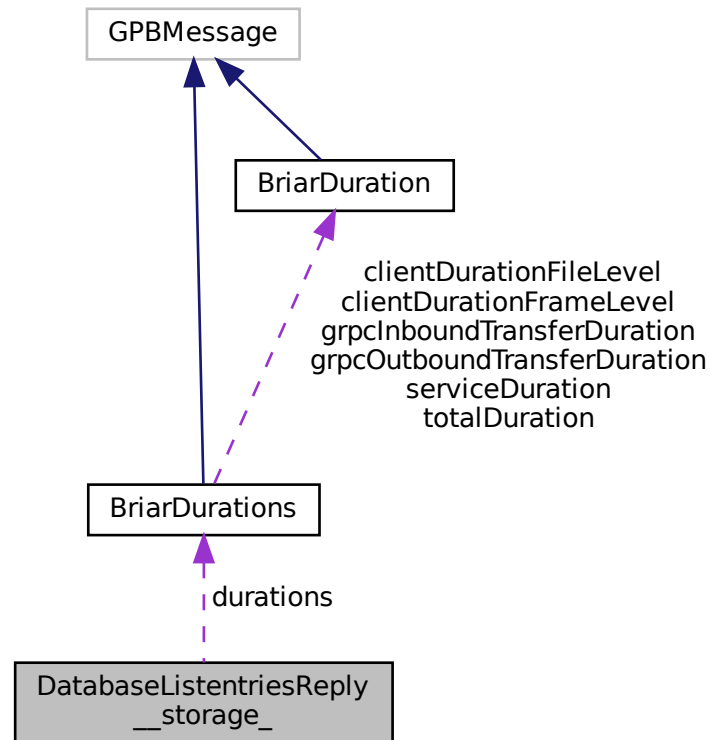
5.81.1.7 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.82 DatabaseListentriesReply__storage_ Struct Reference

Collaboration diagram for DatabaseListentriesReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDurations * durations`
- `NSMutableArray * entryAttributesArray`
- `NSMutableArray * entryIdsArray`

5.82.1 Field Documentation

5.82.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.82.1.2 durations

- (`BriarDurations*`) `durations` [protected]

5.82.1.3 entryAttributesArray

```
- (NSMutableArray*) entryAttributesArray [protected]
```

5.82.1.4 entryIdsArray

```
- (NSMutableArray*) entryIdsArray [protected]
```

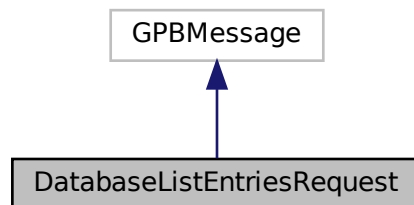
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

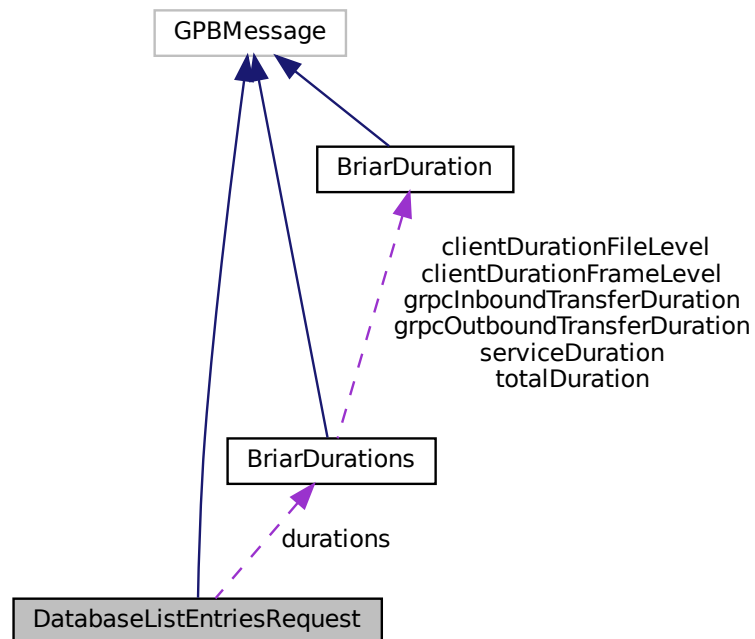
5.83 DatabaseListEntriesRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseListEntriesRequest:



Collaboration diagram for DatabaseListEntriesRequest:



Properties

- NSString * [databaseName](#)
REQUIRED database name.
- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- BOOL [hasDurations](#)
*Test to see if *durations* has been set.*

5.83.1 Property Documentation

5.83.1.1 [databaseName](#)

```

- (NSString*) databaseName [read], [write], [nonatomic], [copy]
REQUIRED database name.

```

5.83.1.2 [durations](#)

```

- (BriarDurations*) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

```

5.83.1.3 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

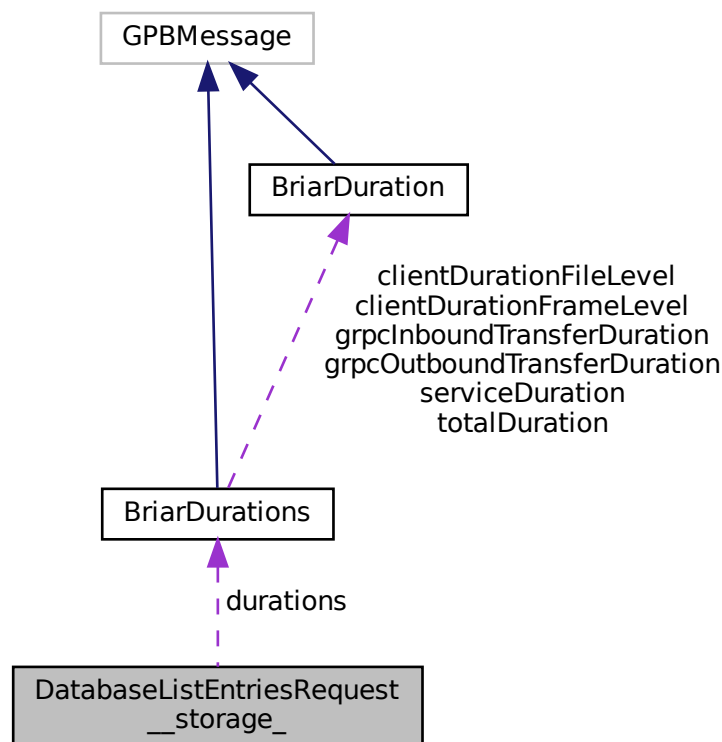
Test to see if durations has been set.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.84 DatabaseListEntriesRequest__storage_ Struct Reference

Collaboration diagram for DatabaseListEntriesRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `NSString * databaseName`
- `BriarDurations * durations`

5.84.1 Field Documentation

5.84.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.84.1.2 databaseName

- (NSString*) databaseName [protected]

5.84.1.3 durations

- (BriarDurations*) durations [protected]

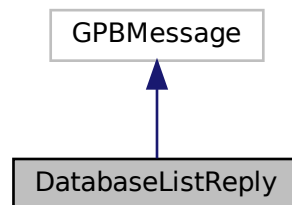
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

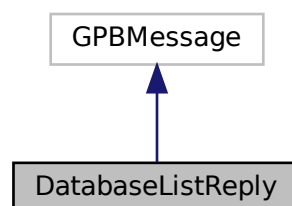
5.85 DatabaseListReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseListReply:



Collaboration diagram for DatabaseListReply:



Properties

- NSMutableArray< NSString * > * databaseNamesArray
- NSUInteger databaseNamesArray_Count

The number of items in databaseNamesArray without causing the array to be created.

5.85.1 Property Documentation

5.85.1.1 databaseNamesArray

```
- (NSMutableArray<NSString*>*) databaseNamesArray [read], [write], [nonatomic], [strong]
```

5.85.1.2 databaseNamesArray_Count

```
- (NSUInteger) databaseNamesArray_Count [read], [nonatomic], [assign]
```

The number of items in `databaseNamesArray` without causing the array to be created.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.86 DatabaseListReply__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [databaseNamesArray](#)

5.86.1 Field Documentation

5.86.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.86.1.2 databaseNamesArray

```
- (NSMutableArray*) databaseNamesArray [protected]
```

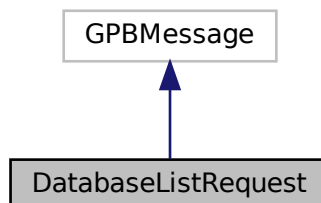
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

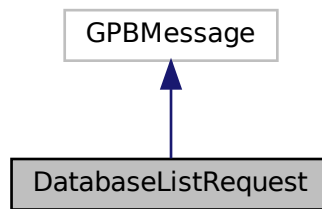
5.87 DatabaseListRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseListRequest:



Collaboration diagram for DatabaseListRequest:



Properties

- NSString * [regex](#)

5.87.1 Property Documentation

5.87.1.1 [regex](#)

- (NSString*) regex [read], [write], [nonatomic], [copy]

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.88 DatabaseListRequest__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSString * [regex](#)

5.88.1 Field Documentation

5.88.1.1 [_has_storage_](#)

- (uint32_t _has_storage_[1]) [protected]

5.88.1.2 [regex](#)

- (NSString*) regex [protected]

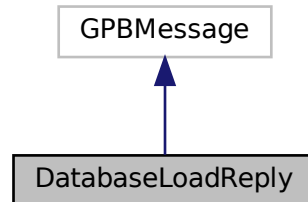
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.m](#)

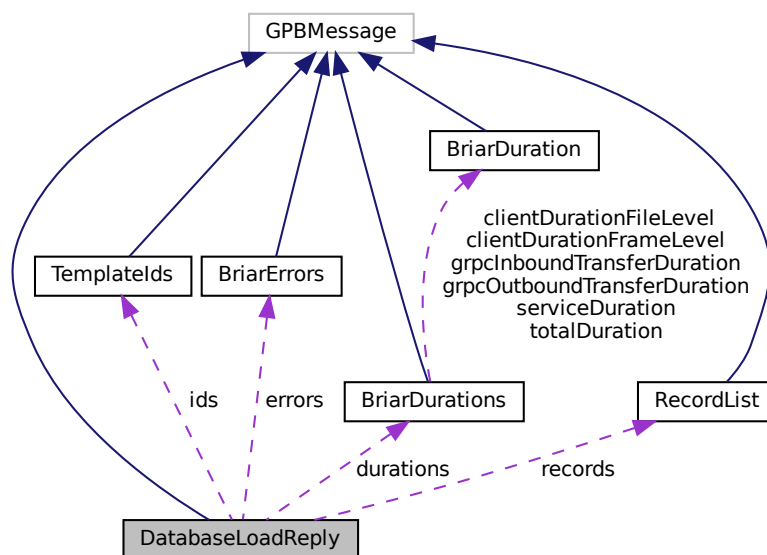
5.89 DatabaseLoadReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseLoadReply:



Collaboration diagram for DatabaseLoadReply:



Properties

- `BriarDurations` * `durations`
Log the time needed to complete the request on the server.
- `BriarErrors` * `errors`
- `BOOL` `exists`
REQUIRED: Set to false if the requested database did not exist.
- `BOOL` `hasDurations`
Test to see if `durations` has been set.
- `BOOL` `hasErrors`
Test to see if `errors` has been set.

- **BOOL** [hasIds](#)
Test to see if `ids` has been set.
- **BOOL** [hasRecords](#)
Test to see if `records` has been set.
- **TemplateIds** * [ids](#)
OPTIONAL: template IDs included in the loaded database.
- **RecordList** * [records](#)
DEPRICATED: records are not used at this time.

5.89.1 Property Documentation

5.89.1.1 durations

- ([BriarDurations](#)*) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.89.1.2 errors

- ([BriarErrors](#)*) errors [read], [write], [nonatomic], [strong]

5.89.1.3 exists

- (BOOL) exists [read], [write], [nonatomic], [assign]
REQUIRED: Set to false if the requested database did not exist.

5.89.1.4 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.89.1.5 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]
Test to see if errors has been set.

5.89.1.6 hasIds

- (BOOL) hasIds [read], [write], [nonatomic], [assign]
Test to see if ids has been set.

5.89.1.7 hasRecords

- (BOOL) hasRecords [read], [write], [nonatomic], [assign]
Test to see if records has been set.

5.89.1.8 ids

- ([TemplateIds](#)*) ids [read], [write], [nonatomic], [strong]
OPTIONAL: template IDs included in the loaded database.

5.89.1.9 records

- ([RecordList*](#)) records [read], [write], [nonatomic], [strong]

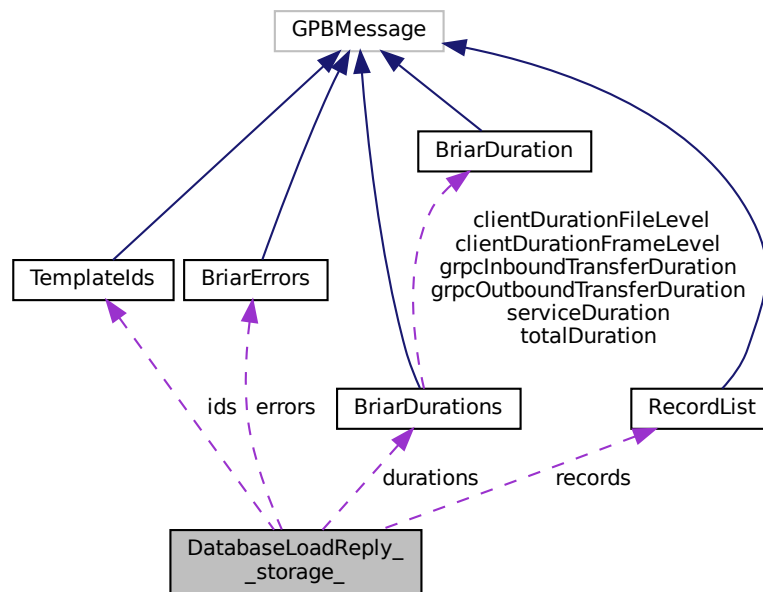
DEPRICATED: records are not used at this time.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.90 DatabaseLoadReply__storage_ Struct Reference

Collaboration diagram for DatabaseLoadReply__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- [BriarDurations*](#) durations
- [BriarErrors*](#) errors
- [TemplateIds*](#) ids
- [RecordList*](#) records

5.90.1 Field Documentation

5.90.1.1 _has_storage_

- (uint32_t [_has_storage_](#)[1]) [protected]

5.90.1.2 durations

- ([BriarDurations*](#)) durations [protected]

5.90.1.3 errors

- ([BriarErrors*](#)) errors [protected]

5.90.1.4 ids

- ([TemplateIds*](#)) ids [protected]

5.90.1.5 records

- ([RecordList*](#)) records [protected]

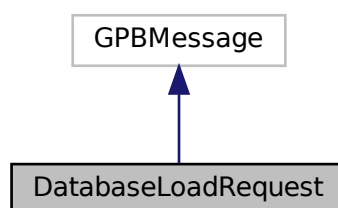
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

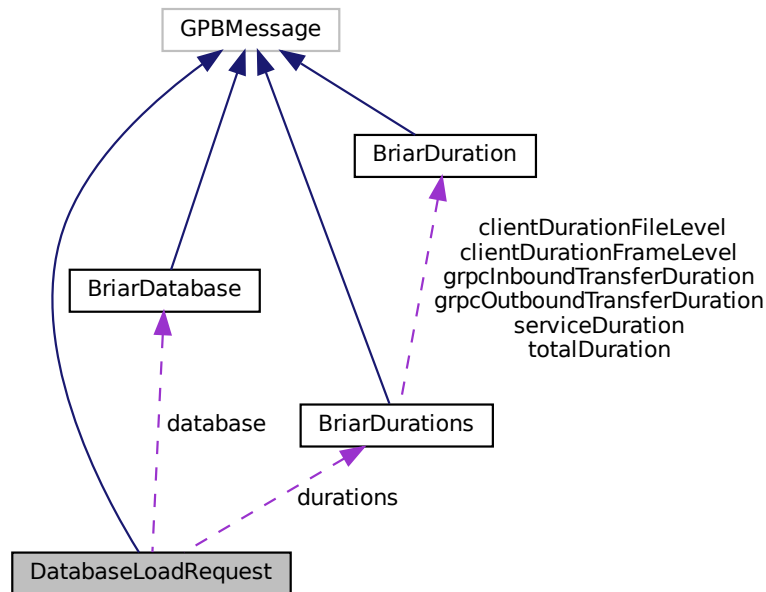
5.91 DatabaseLoadRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseLoadRequest:



Collaboration diagram for DatabaseLoadRequest:



Properties

- [BriarDatabase](#) * [database](#)
Name of database to load.
- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- [BOOL](#) [hasDatabase](#)
Test to see if database has been set.
- [BOOL](#) [hasDurations](#)
Test to see if durations has been set.

5.91.1 Property Documentation

5.91.1.1 database

- ([BriarDatabase](#)*) database [read], [write], [nonatomic], [strong]
Name of database to load.

5.91.1.2 durations

- ([BriarDurations](#)*) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.91.1.3 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

5.91.1.4 hasDurations

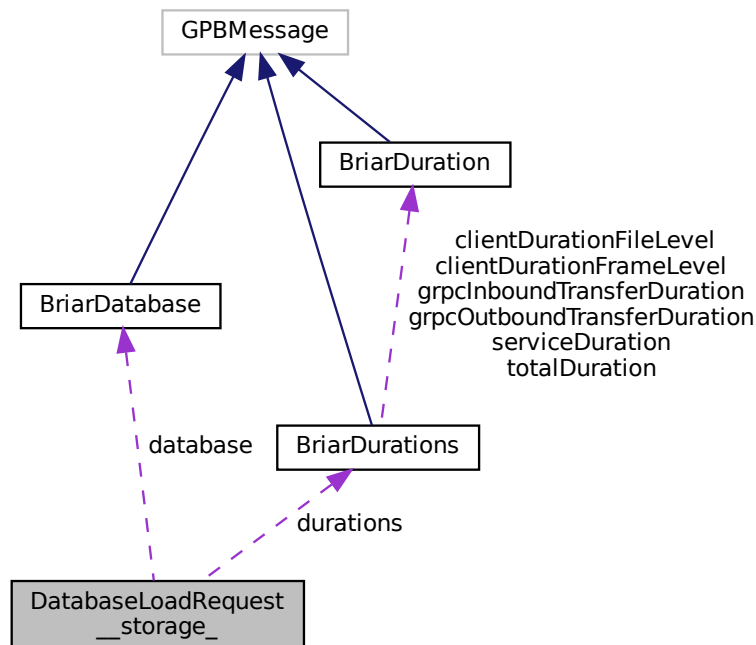
- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.92 DatabaseLoadRequest__storage_ Struct Reference

Collaboration diagram for DatabaseLoadRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `BriarDatabase * database`
- `BriarDurations * durations`

5.92.1 Field Documentation

5.92.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.92.1.2 `database`

- ([BriarDatabase*](#)) `database` [protected]

5.92.1.3 `durations`

- ([BriarDurations*](#)) `durations` [protected]

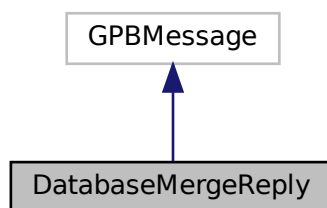
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

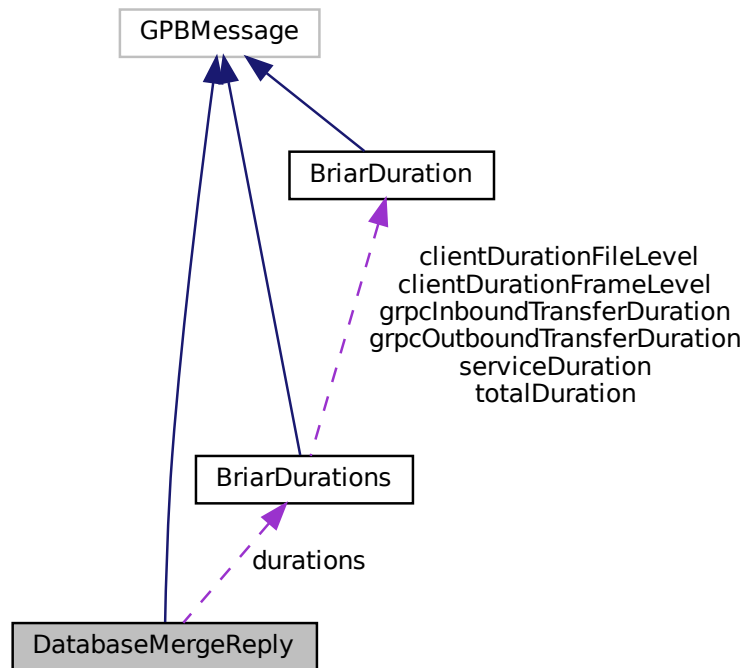
5.93 DatabaseMergeReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseMergeReply:



Collaboration diagram for DatabaseMergeReply:



Properties

- [BriarDurations](#) * [durations](#)
- `int64_t` [entryCount](#)
REQUIRED: number of entries in the newly merged database.
- `GPBBoolArray` * [existsArray](#)
REQUIRED: Set to false if the requested database did not exist.
- `NSUInteger` [existsArray_Count](#)
The number of items in existsArray without causing the array to be created.
- `BOOL` [hasDurations](#)
Test to see if durations has been set.

5.93.1 Property Documentation

5.93.1.1 durations

- ([BriarDurations](#)*) durations [read], [write], [nonatomic], [strong]

5.93.1.2 entryCount

- (`int64_t`) entryCount [read], [write], [nonatomic], [assign]

REQUIRED: number of entries in the newly merged database.

5.93.1.3 existsArray

- (GPBBoolArray*) existsArray [read], [write], [nonatomic], [strong]
 REQUIRED: Set to false if the requested database did not exist.

5.93.1.4 existsArray_Count

- (NSUInteger) existsArray_Count [read], [nonatomic], [assign]
 The number of items in existsArray without causing the array to be created.

5.93.1.5 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

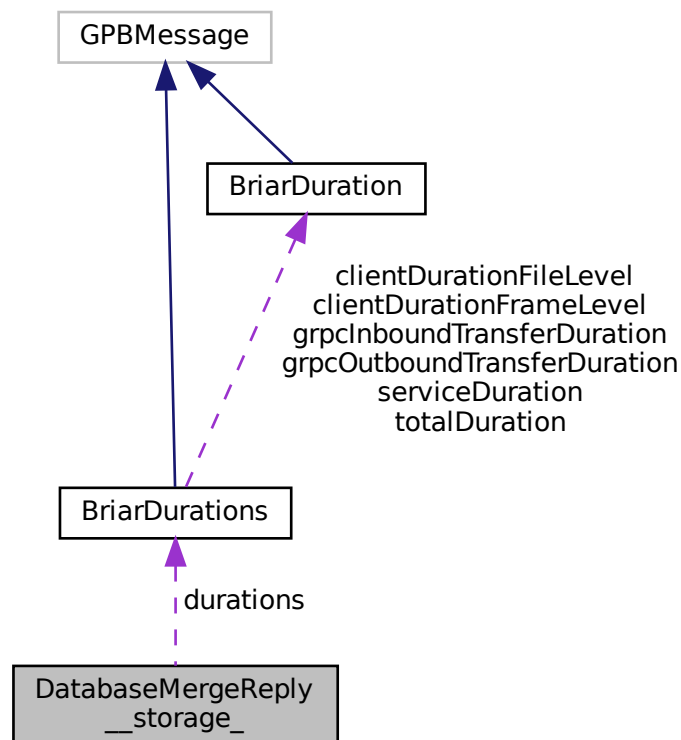
Test to see if durations has been set.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.94 DatabaseMergeReply__storage_ Struct Reference

Collaboration diagram for DatabaseMergeReply__storage_:



Protected Attributes

- uint32_t _has_storage_ [1]

- [BriarDurations](#) * [durations](#)
- `int64_t` [entryCount](#)
- `GPBBoolArray` * [existsArray](#)

5.94.1 Field Documentation

5.94.1.1 `_has_storage_`

- (`uint32_t` `_has_storage_[1]`) [protected]

5.94.1.2 `durations`

- ([BriarDurations*](#)) `durations` [protected]

5.94.1.3 `entryCount`

- (`int64_t`) `entryCount` [protected]

5.94.1.4 `existsArray`

- (`GPBBoolArray*`) `existsArray` [protected]

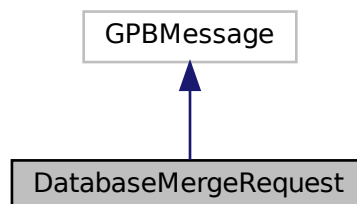
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

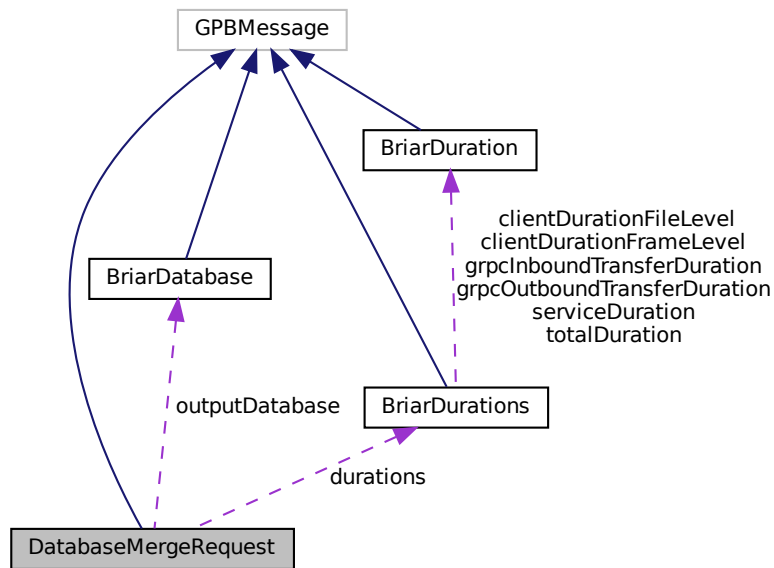
5.95 DatabaseMergeRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseMergeRequest:



Collaboration diagram for DatabaseMergeRequest:



Properties

- NSMutableArray< BriarDatabase * > * databaseListArray
REQUIRED: Databases to merge.
- NSUInteger databaseListArray_Count
The number of items in databaseListArray without causing the array to be created.
- BriarDurations * durations
Log the time needed to complete the request on the server.
- BOOL hasDurations
Test to see if durations has been set.
- BOOL hasOutputDatabase
Test to see if outputDatabase has been set.
- BriarDatabase * outputDatabase
REQUIRED: Database to output.

5.95.1 Property Documentation

5.95.1.1 databaseListArray

– (NSMutableArray<BriarDatabase*>*) databaseListArray [read], [write], [nonatomic], [strong]
REQUIRED: Databases to merge.

5.95.1.2 databaseListArray_Count

– (NSUInteger) databaseListArray_Count [read], [nonatomic], [assign]
The number of items in databaseListArray without causing the array to be created.

5.95.1.3 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.95.1.4 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.95.1.5 hasOutputDatabase

- (BOOL) hasOutputDatabase [read], [write], [nonatomic], [assign]
Test to see if outputDatabase has been set.

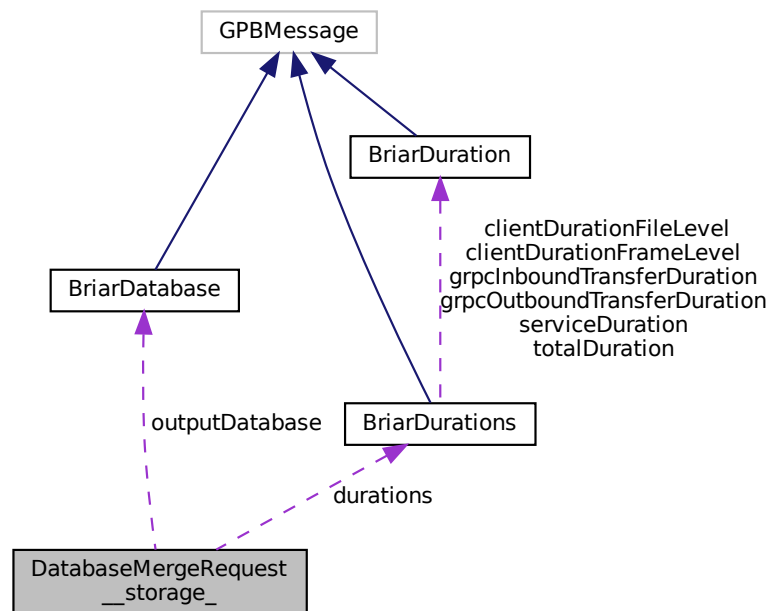
5.95.1.6 outputDatabase

- ([BriarDatabase*](#)) outputDatabase [read], [write], [nonatomic], [strong]
REQUIRED: Database to output.
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.96 DatabaseMergeRequest__storage_ Struct Reference

Collaboration diagram for DatabaseMergeRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`

- NSMutableArray * [databaseListArray](#)
- [BriarDurations](#) * [durations](#)
- [BriarDatabase](#) * [outputDatabase](#)

5.96.1 Field Documentation

5.96.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.96.1.2 `databaseListArray`

- (NSMutableArray*) `databaseListArray` [protected]

5.96.1.3 `durations`

- ([BriarDurations*](#)) `durations` [protected]

5.96.1.4 `outputDatabase`

- ([BriarDatabase*](#)) `outputDatabase` [protected]

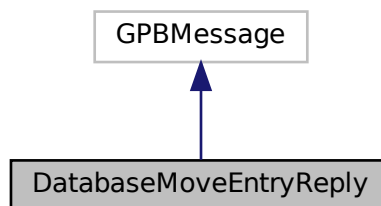
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

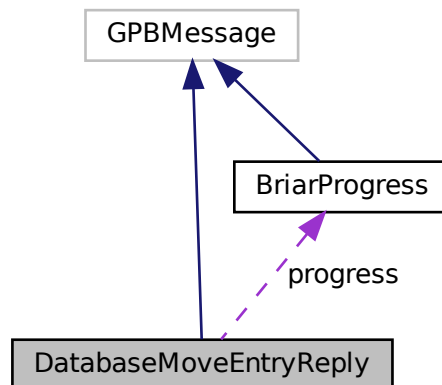
5.97 DatabaseMoveEntryReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseMoveEntryReply:



Collaboration diagram for DatabaseMoveEntryReply:



Properties

- BOOL [hasProgress](#)
Test to see if `progress` has been set.
- [BriarProgress](#) * [progress](#)
- BOOL [success](#)

5.97.1 Property Documentation

5.97.1.1 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]

Test to see if `progress` has been set.

5.97.1.2 progress

- ([BriarProgress](#)*) progress [read], [write], [nonatomic], [strong]

5.97.1.3 success

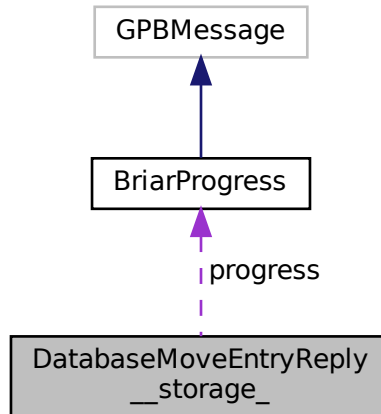
- (BOOL) success [read], [write], [nonatomic], [assign]

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.98 DatabaseMoveEntryReply__storage_ Struct Reference

Collaboration diagram for DatabaseMoveEntryReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarProgress * progress`

5.98.1 Field Documentation

5.98.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.98.1.2 progress

```
- (BriarProgress*) progress [protected]
```

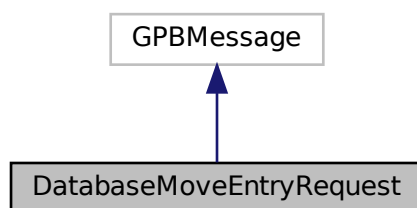
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

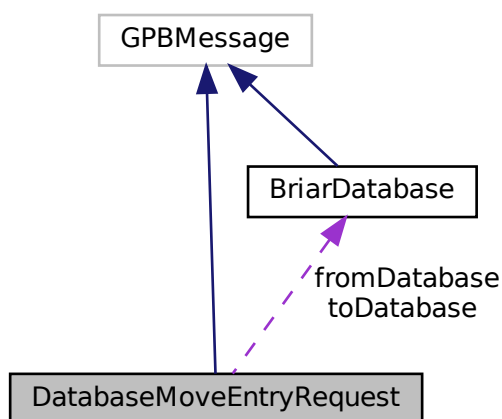
5.99 DatabaseMoveEntryRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseMoveEntryRequest:



Collaboration diagram for DatabaseMoveEntryRequest:



Properties

- NSString * [entryId](#)
- BriarDatabase * [fromDatabase](#)
- BOOL [hasFromDatabase](#)
Test to see if `fromDatabase` has been set.
- BOOL [hasToDatabase](#)
Test to see if `toDatabase` has been set.
- BOOL [shouldCopy](#)
- BriarDatabase * [toDatabase](#)

5.99.1 Property Documentation

5.99.1.1 entryId

- (NSString*) entryId [read], [write], [nonatomic], [copy]

5.99.1.2 fromDatabase

- (BriarDatabase*) fromDatabase [read], [write], [nonatomic], [strong]

5.99.1.3 hasFromDatabase

- (BOOL) hasFromDatabase [read], [write], [nonatomic], [assign]

Test to see if fromDatabase has been set.

5.99.1.4 hasToDatabase

- (BOOL) hasToDatabase [read], [write], [nonatomic], [assign]

Test to see if toDatabase has been set.

5.99.1.5 shouldCopy

- (BOOL) shouldCopy [read], [write], [nonatomic], [assign]

5.99.1.6 toDatabase

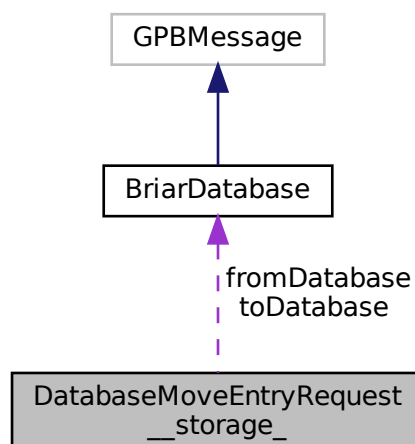
- (BriarDatabase*) toDatabase [read], [write], [nonatomic], [strong]

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.100 DatabaseMoveEntryRequest__storage_ Struct Reference

Collaboration diagram for DatabaseMoveEntryRequest__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSString * [entryId](#)
- [BriarDatabase](#) * [fromDatabase](#)
- [BriarDatabase](#) * [toDatabase](#)

5.100.1 Field Documentation

5.100.1.1 [_has_storage_](#)

```
- (uint32_t \_has\_storage\_[1]) [protected]
```

5.100.1.2 [entryId](#)

```
- (NSString*) entryId [protected]
```

5.100.1.3 [fromDatabase](#)

```
- (BriarDatabase*) fromDatabase [protected]
```

5.100.1.4 [toDatabase](#)

```
- (BriarDatabase*) toDatabase [protected]
```

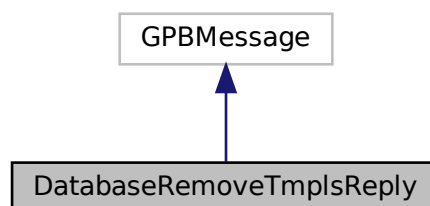
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

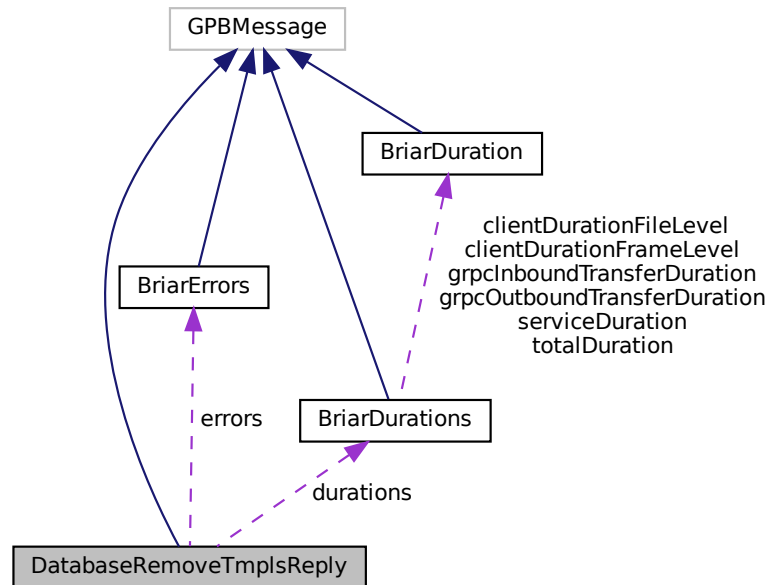
5.101 DatabaseRemoveTmpIsReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseRemoveTmpIsReply:



Collaboration diagram for DatabaseRemoveTmplsReply:



Properties

- [BriarDurations](#) * [durations](#)
UNIMPLEMENTED:
- [BriarErrors](#) * [errors](#)
UNIMPLEMENTED: Aggregate errors which happened mid-batch.
- `BOOL` [hasDurations](#)
Test to see if `durations` has been set.
- `BOOL` [hasErrors](#)
Test to see if `errors` has been set.

5.101.1 Property Documentation

5.101.1.1 durations

- ([BriarDurations](#)*) `durations` [read], [write], [nonatomic], [strong]
UNIMPLEMENTED:

5.101.1.2 errors

- ([BriarErrors](#)*) `errors` [read], [write], [nonatomic], [strong]
UNIMPLEMENTED: Aggregate errors which happened mid-batch.

5.101.1.3 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.101.1.4 hasErrors

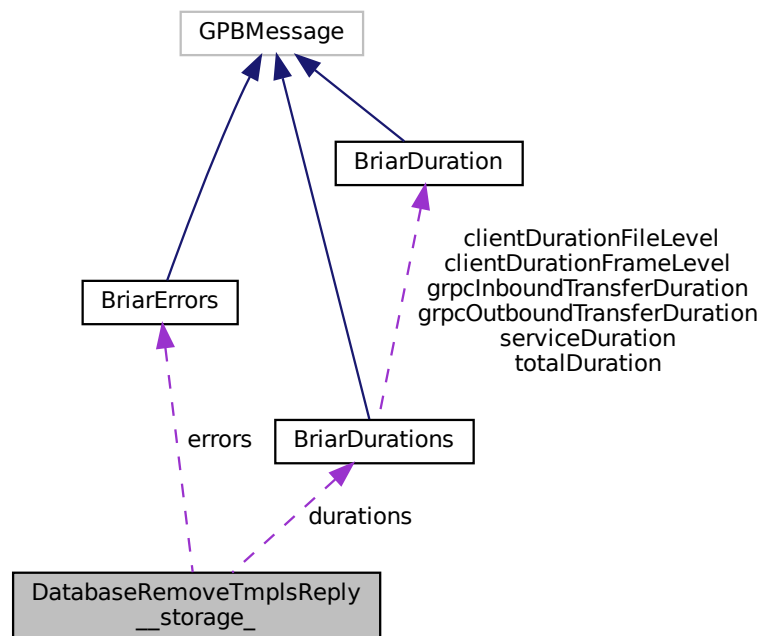
- (BOOL) hasErrors [read], [write], [nonatomic], [assign]
Test to see if errors has been set.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.102 DatabaseRemoveTmpIsReply__storage_ Struct Reference

Collaboration diagram for DatabaseRemoveTmpIsReply__storage_:



Protected Attributes

- uint32_t `_has_storage_` [1]
- `BriarDurations` * `durations`
- `BriarErrors` * `errors`

5.102.1 Field Documentation

5.102.1.1 _has_storage_

- (uint32_t) _has_storage_[1] [protected]

5.102.1.2 durations

- ([BriarDurations*](#)) durations [protected]

5.102.1.3 errors

- ([BriarErrors*](#)) errors [protected]

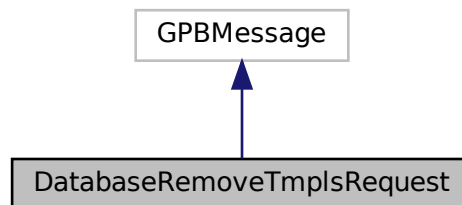
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

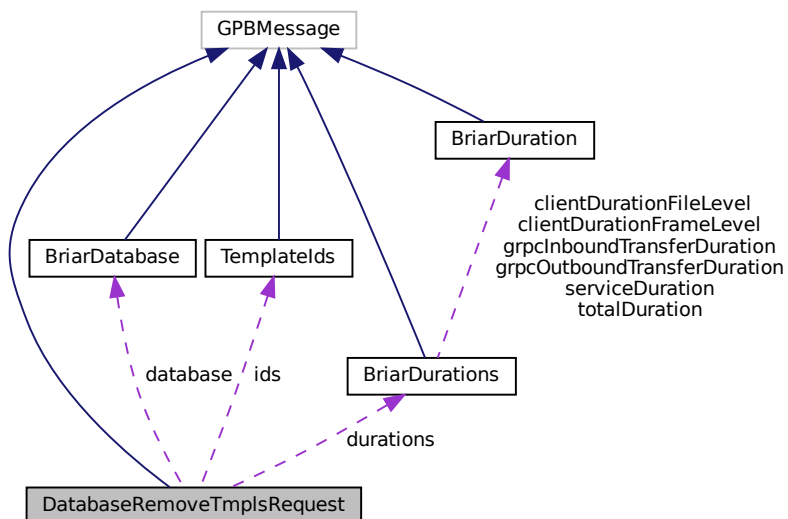
5.103 DatabaseRemoveTmplsRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseRemoveTmplsRequest:



Collaboration diagram for DatabaseRemoveTmplsRequest:



Properties

- [BriarDatabase](#) * [database](#)
UNIMPLEMENTED: Database to remove from.
- [BriarDurations](#) * [durations](#)
UNIMPLEMENTED: Log the time needed to complete the request on the server.
- `BOOL` [hasDatabase](#)
Test to see if database has been set.
- `BOOL` [hasDurations](#)
Test to see if durations has been set.
- `BOOL` [hasIds](#)
Test to see if ids has been set.
- [TemplateIds](#) * [ids](#)
UNIMPLEMENTED:

5.103.1 Property Documentation

5.103.1.1 database

- ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]
UNIMPLEMENTED: Database to remove from.

5.103.1.2 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]
UNIMPLEMENTED: Log the time needed to complete the request on the server.

5.103.1.3 hasDatabase

- (`BOOL`) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

5.103.1.4 hasDurations

- (`BOOL`) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.103.1.5 hasIds

- (`BOOL`) hasIds [read], [write], [nonatomic], [assign]
Test to see if ids has been set.

5.103.1.6 ids

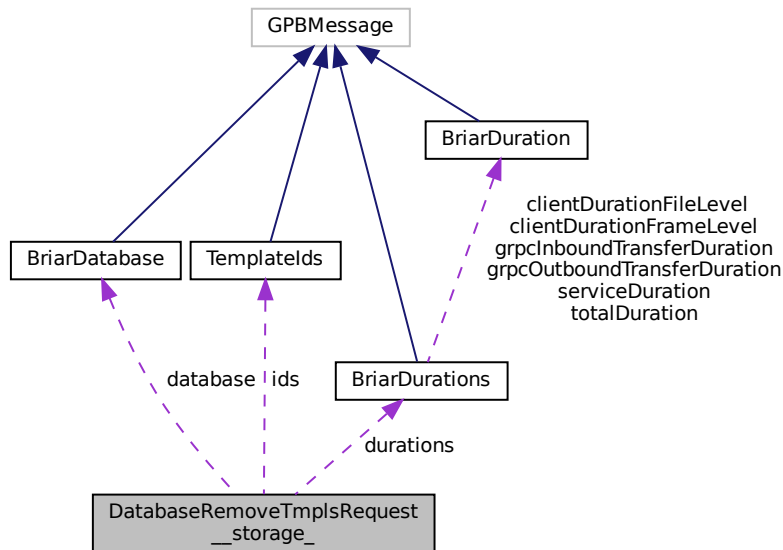
- ([TemplateIds*](#)) ids [read], [write], [nonatomic], [strong]
UNIMPLEMENTED:

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.104 DatabaseRemoveTmpIsRequest__storage_ Struct Reference

Collaboration diagram for DatabaseRemoveTmpIsRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDatabase * database`
- `BriarDurations * durations`
- `TemplateIds * ids`

5.104.1 Field Documentation

5.104.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.104.1.2 database

- (`BriarDatabase*`) `database` [protected]

5.104.1.3 durations

- (`BriarDurations*`) `durations` [protected]

5.104.1.4 ids

- (`TemplateIds*`) `ids` [protected]

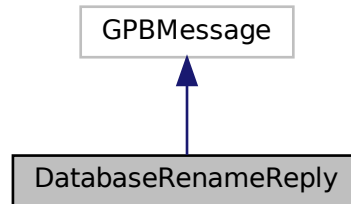
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

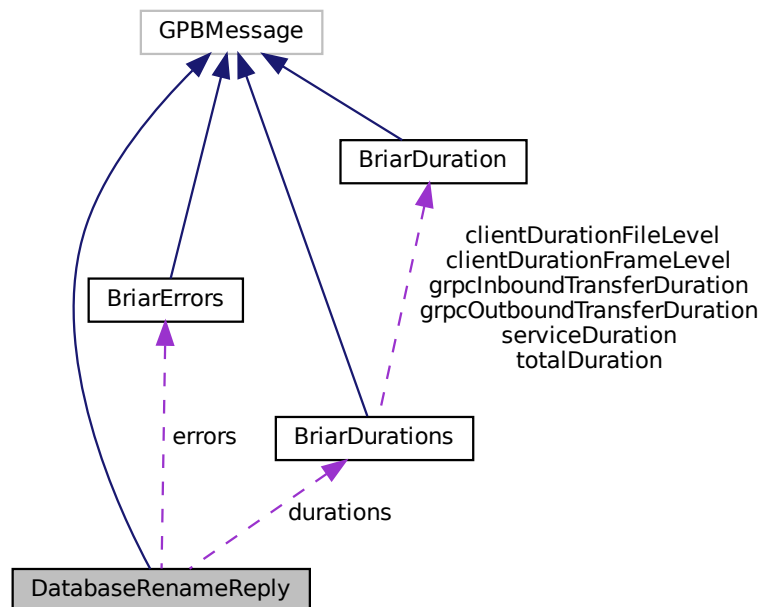
5.105 DatabaseRenameReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseRenameReply:



Collaboration diagram for DatabaseRenameReply:



Properties

- `BriarDurations` * `durations`
- `BriarErrors` * `errors`
 - Aggregate errors which happened mid-batch.
- `BOOL` `exists`
 - REQUIRED:* Set to false if the requested database did not exist.
- `BOOL` `hasDurations`
 - Test to see if `durations` has been set.

- **BOOL** [hasErrors](#)

Test to see if `errors` has been set.

5.105.1 Property Documentation

5.105.1.1 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]

5.105.1.2 errors

- ([BriarErrors*](#)) errors [read], [write], [nonatomic], [strong]

Aggregate errors which happened mid-batch.

5.105.1.3 exists

- (BOOL) exists [read], [write], [nonatomic], [assign]

REQUIRED: Set to false if the requested database did not exist.

5.105.1.4 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if `durations` has been set.

5.105.1.5 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

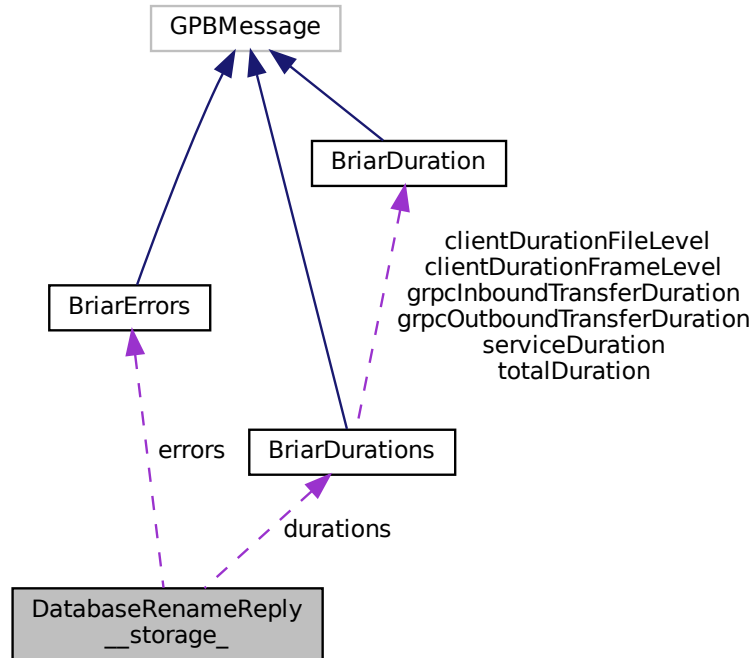
Test to see if `errors` has been set.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.106 DatabaseRenameReply__storage_ Struct Reference

Collaboration diagram for DatabaseRenameReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDurations * durations`
- `BriarErrors * errors`

5.106.1 Field Documentation

5.106.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.106.1.2 durations

- (`BriarDurations*`) `durations` [protected]

5.106.1.3 errors

- (`BriarErrors*`) `errors` [protected]

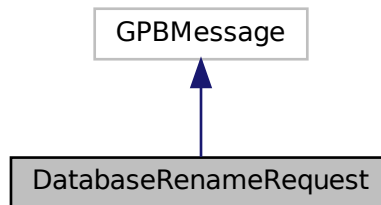
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

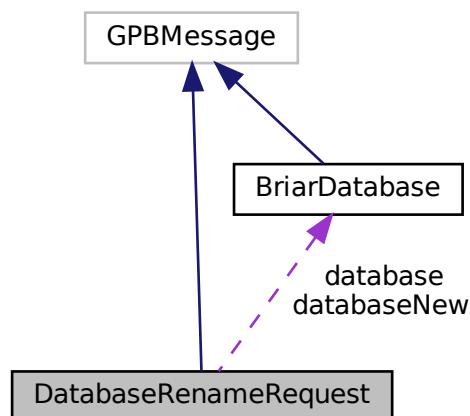
5.107 DatabaseRenameRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseRenameRequest:



Collaboration diagram for DatabaseRenameRequest:



Properties

- [BriarDatabase](#) * [database](#)
REQUIRED: Database to remove from.
- [BriarDatabase](#) * [databaseNew](#)
REQUIRED: Database to remove from.
- BOOL [hasDatabase](#)
Test to see if database has been set.
- BOOL [hasDatabaseNew](#)
Test to see if databaseNew has been set.

5.107.1 Property Documentation

5.107.1.1 database

- ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]
 REQUIRED: Database to remove from.

5.107.1.2 databaseNew

- ([BriarDatabase*](#)) databaseNew [read], [write], [nonatomic], [strong]
 REQUIRED: Database to remove from.

5.107.1.3 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
 Test to see if database has been set.

5.107.1.4 hasDatabaseNew

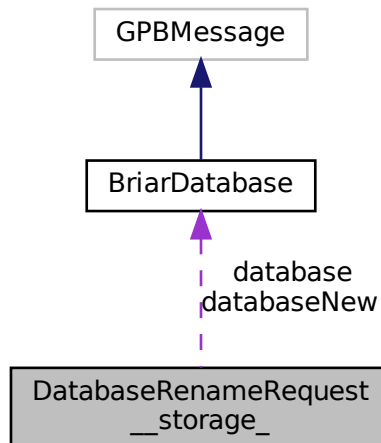
- (BOOL) hasDatabaseNew [read], [write], [nonatomic], [assign]
 Test to see if databaseNew has been set.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.108 DatabaseRenameRequest__storage_ Struct Reference

Collaboration diagram for DatabaseRenameRequest__storage_:

**Protected Attributes**

- uint32_t _has_storage_ [1]
- [BriarDatabase](#) * database
- [BriarDatabase](#) * databaseNew

5.108.1 Field Documentation

5.108.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.108.1.2 `database`

- ([BriarDatabase*](#)) `database` [protected]

5.108.1.3 `databaseNew`

- ([BriarDatabase*](#)) `databaseNew` [protected]

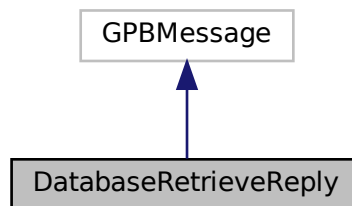
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

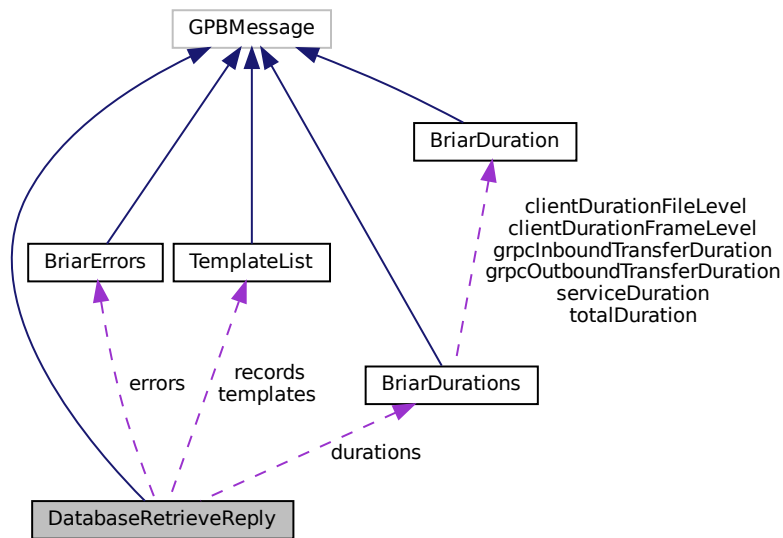
5.109 DatabaseRetrieveReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseRetrieveReply:



Collaboration diagram for DatabaseRetrieveReply:



Properties

- [BriarDurations](#) * [durations](#)
UNIMPLEMENTED: Log the time needed to complete the request on the server.
- [BriarErrors](#) * [errors](#)
- [BOOL](#) [hasDurations](#)
Test to see if `durations` has been set.
- [BOOL](#) [hasErrors](#)
Test to see if `errors` has been set.
- [BOOL](#) [hasRecords](#)
Test to see if `records` has been set.
- [BOOL](#) [hasTemplates](#)
Test to see if `templates` has been set.
- [TemplateList](#) * [records](#)
DEPRICATED: duplicate output.
- [TemplateList](#) * [templates](#)
UNIMPLEMENTED.

5.109.1 Property Documentation

5.109.1.1 durations

– ([BriarDurations](#)*) `durations` [`read`], [`write`], [`nonatomic`], [`strong`]
UNIMPLEMENTED: Log the time needed to complete the request on the server.

5.109.1.2 errors

– ([BriarErrors](#)*) `errors` [`read`], [`write`], [`nonatomic`], [`strong`]

5.109.1.3 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.109.1.4 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]
Test to see if errors has been set.

5.109.1.5 hasRecords

- (BOOL) hasRecords [read], [write], [nonatomic], [assign]
Test to see if records has been set.

5.109.1.6 hasTemplates

- (BOOL) hasTemplates [read], [write], [nonatomic], [assign]
Test to see if templates has been set.

5.109.1.7 records

- ([TemplateList*](#)) records [read], [write], [nonatomic], [strong]
DEPRICATED: duplicate output.

5.109.1.8 templates

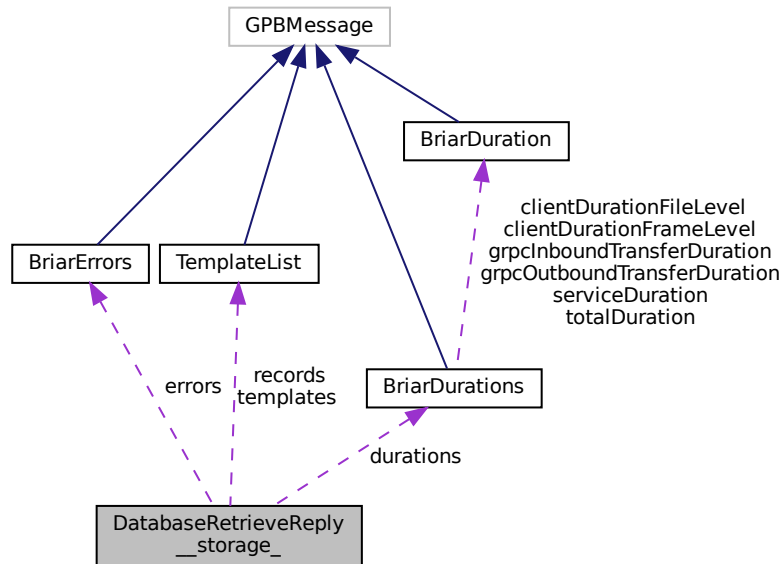
- ([TemplateList*](#)) templates [read], [write], [nonatomic], [strong]
UNIMPLEMENTED.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.110 DatabaseRetrieveReply__storage_ Struct Reference

Collaboration diagram for DatabaseRetrieveReply__storage_:



Protected Attributes

- uint32_t _has_storage_[1]
- BriarDurations * durations
- BriarErrors * errors
- TemplateList * records
- TemplateList * templates

5.110.1 Field Documentation

5.110.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.110.1.2 durations

```
- (BriarDurations*) durations [protected]
```

5.110.1.3 errors

```
- (BriarErrors*) errors [protected]
```

5.110.1.4 records

```
- (TemplateList*) records [protected]
```

5.110.1.5 templates

- ([TemplateList](#)*) templates [protected]

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

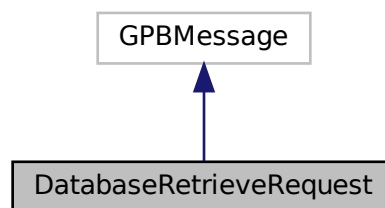
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

5.111 DatabaseRetrieveRequest Class Reference

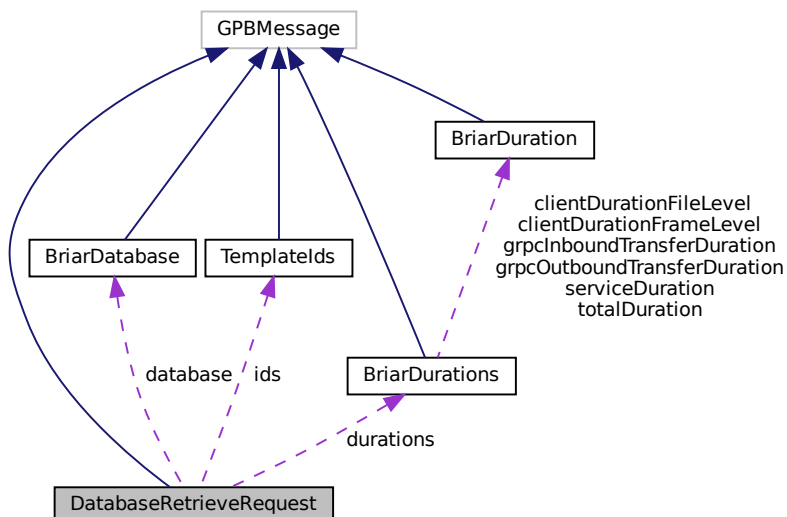
OPTIONAL: request that returns a databases contents to the client.

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DatabaseRetrieveRequest:



Collaboration diagram for DatabaseRetrieveRequest:



Properties

- [BriarDatabase](#) * [database](#)
Database to retrieve from.
- [BriarDurations](#) * [durations](#)

Log the time needed to complete the request on the server.

- BOOL [hasDatabase](#)

Test to see if database has been set.

- BOOL [hasDurations](#)

Test to see if durations has been set.

- BOOL [hasIds](#)

Test to see if ids has been set.

- [TemplateIds](#) * [ids](#)

5.111.1 Detailed Description

OPTIONAL: request that returns a databases contents to the client.

Could be very slow

5.111.2 Property Documentation

5.111.2.1 database

- ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]

Database to retrieve from.

5.111.2.2 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.111.2.3 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]

Test to see if database has been set.

5.111.2.4 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if durations has been set.

5.111.2.5 hasIds

- (BOOL) hasIds [read], [write], [nonatomic], [assign]

Test to see if ids has been set.

5.111.2.6 ids

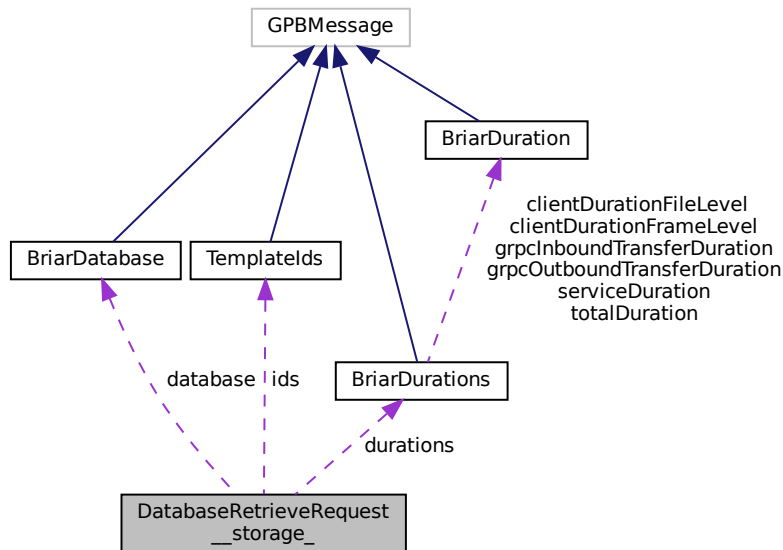
- ([TemplateIds*](#)) ids [read], [write], [nonatomic], [strong]

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.112 DatabaseRetrieveRequest__storage_ Struct Reference

Collaboration diagram for DatabaseRetrieveRequest__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDatabase * database`
- `BriarDurations * durations`
- `TemplateIds * ids`

5.112.1 Field Documentation

5.112.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.112.1.2 database

- (`BriarDatabase*`) `database` [protected]

5.112.1.3 durations

- (`BriarDurations*`) `durations` [protected]

5.112.1.4 ids

- (`TemplateIds*`) `ids` [protected]

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

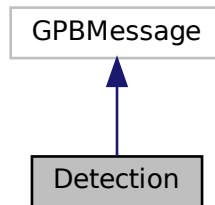
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

5.113 Detection Class Reference

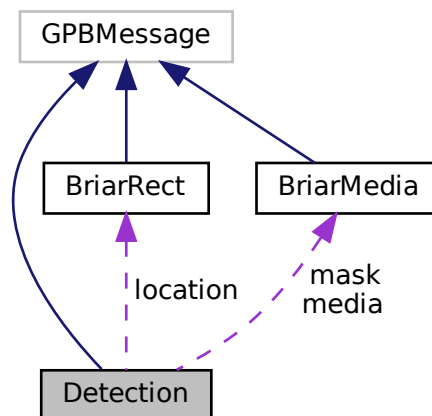
Data relating to the detection of an object in an image.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for Detection:



Collaboration diagram for Detection:



Properties

- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
OPTIONAL: attributes describing the detection.
- NSUInteger [attributesArray_Count](#)
The number of items in attributesArray without causing the array to be created.
- float [confidence](#)
RECOMMENDED: Confidence of detection.
- NSString * [detectionClass](#)
DEPRICATED: use modality or attributes instead.
- int64_t [detectionId](#)
RECOMMENDED: unique id of detection.

- `int32_t frame`
RECOMMENDED: Frame number associated with the detection.
- `BOOL hasLocation`
Test to see if `location` has been set.
- `BOOL hasMask`
Test to see if `mask` has been set.
- `BOOL hasMedia`
Test to see if `media` has been set.
- `BriarRect * location`
REQUIRED: Bounding Box of detection.
- `BriarMedia * mask`
DEPRICATED: use `attributes` instead - a mask pertaining to the segmented object detected.
- `BriarMedia * media`
DEPRICATED: use `attributes` instead - data pertaining to the detection (i.e.
- `BiometricModality modality`
RECOMMENDED: modality associated with this detection.
- `int64_t trackletId`
RECOMMENDED: the id of a tracklet for this media.

5.113.1 Detailed Description

Data relating to the detection of an object in an image.

Tracklet_id should be associate with a single person which may contain multiple detections for many modalities (head, body, hands, etc) and result in a single multimodal template.

5.113.2 Property Documentation

5.113.2.1 attributesArray

- (NSMutableArray<Attribute*>*) attributesArray [read], [write], [nonatomic], [strong]
OPTIONAL: attributes describing the detection.

5.113.2.2 attributesArray_Count

- (NSUInteger) attributesArray_Count [read], [nonatomic], [assign]
The number of items in attributesArray without causing the array to be created.

5.113.2.3 confidence

- (float) confidence [read], [write], [nonatomic], [assign]
RECOMMENDED: Confidence of detection.

5.113.2.4 detectionClass

- (NSString*) detectionClass [read], [write], [nonatomic], [copy]
DEPRICATED: use modality or attributes instead.

5.113.2.5 detectionId

- (int64_t) detectionId [read], [write], [nonatomic], [assign]
RECOMMENDED: unique id of detection.

5.113.2.6 frame

- (int32_t) frame [read], [write], [nonatomic], [assign]
RECOMMENDED: Frame number associated with the detection.

5.113.2.7 hasLocation

- (BOOL) hasLocation [read], [write], [nonatomic], [assign]
Test to see if location has been set.

5.113.2.8 hasMask

- (BOOL) hasMask [read], [write], [nonatomic], [assign]
Test to see if mask has been set.

5.113.2.9 hasMedia

- (BOOL) hasMedia [read], [write], [nonatomic], [assign]
Test to see if media has been set.

5.113.2.10 location

- (BriarRect*) location [read], [write], [nonatomic], [strong]
REQUIRED: Bounding Box of detection.

5.113.2.11 mask

- (BriarMedia*) mask [read], [write], [nonatomic], [strong]
DEPRICATED: use attributes instead - a mask pertaining to the segmented object detected.

5.113.2.12 media

- (BriarMedia*) media [read], [write], [nonatomic], [strong]
DEPRICATED: use attributes instead - data pertaining to the detection (i.e. an optional image)

5.113.2.13 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]
RECOMMENDED: modality associated with this detection.

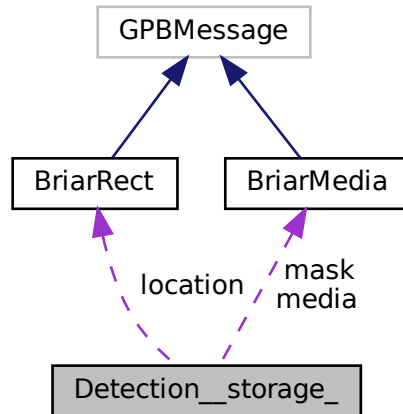
5.113.2.14 trackletId

- (int64_t) trackletId [read], [write], [nonatomic], [assign]
RECOMMENDED: the id of a tracklet for this media.
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.114 Detection__storage_ Struct Reference

Collaboration diagram for Detection__storage_:



Protected Attributes

- uint32_t `_has_storage_` [1]
- NSMutableArray * `attributesArray`
- float `confidence`
- NSString * `detectionClass`
- int64_t `detectionId`
- int32_t `frame`
- BriarRect * `location`
- BriarMedia * `mask`
- BriarMedia * `media`
- BiometricModality `modality`
- int64_t `trackletId`

5.114.1 Field Documentation

5.114.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.114.1.2 attributesArray

```
- (NSMutableArray*) attributesArray [protected]
```

5.114.1.3 confidence

```
- (float) confidence [protected]
```

5.114.1.4 detectionClass

- (NSString*) detectionClass [protected]

5.114.1.5 detectionId

- (int64_t) detectionId [protected]

5.114.1.6 frame

- (int32_t) frame [protected]

5.114.1.7 location

- (BriarRect*) location [protected]

5.114.1.8 mask

- (BriarMedia*) mask [protected]

5.114.1.9 media

- (BriarMedia*) media [protected]

5.114.1.10 modality

- (BiometricModality) modality [protected]

5.114.1.11 trackletId

- (int64_t) trackletId [protected]

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

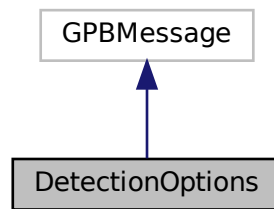
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.115 DetectionOptions Class Reference

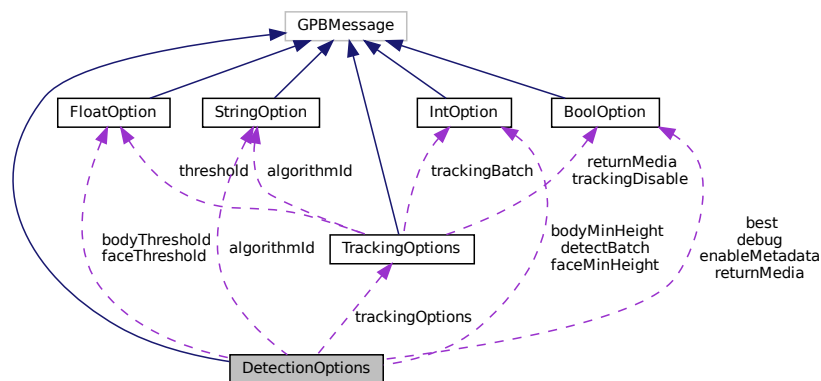
Configuration for the detection algorithm.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for DetectionOptions:



Collaboration diagram for DetectionOptions:



Properties

- **StringOption** * `algorithmId`
uid corresponding to which algorithm to use
- **NSMutableArray**< **Attribute** * > * `attributesArray`
Used for passing algorithm specific or custom options.
- **NSUInteger** `attributesArray_Count`
The number of items in `attributesArray` without causing the array to be created.
- **BoolOption** * `best`
only respond with the best candidates
- **IntOption** * `bodyMinHeight`
min size for a body detection to be considered
- **FloatOption** * `bodyThreshold`
min score for candidate consideration
- **BoolOption** * `debug`
Save or print more info on the server side.
- **IntOption** * `detectBatch`
batch size for detection processes
- **BoolOption** * `enableMetadata`

- extract additional metadata and attributes (landmarks, pose, demographics, etc)*
- [IntOption](#) * [faceMinHeight](#)
min size for a face detection to be considered
- [FloatOption](#) * [faceThreshold](#)
min score for candidate consideration
- [BOOL](#) [hasAlgorithmId](#)
Test to see if algorithmId has been set.
- [BOOL](#) [hasBest](#)
Test to see if best has been set.
- [BOOL](#) [hasBodyMinHeight](#)
Test to see if bodyMinHeight has been set.
- [BOOL](#) [hasBodyThreshold](#)
Test to see if bodyThreshold has been set.
- [BOOL](#) [hasDebug](#)
Test to see if debug has been set.
- [BOOL](#) [hasDetectBatch](#)
Test to see if detectBatch has been set.
- [BOOL](#) [hasEnableMetadata](#)
Test to see if enableMetadata has been set.
- [BOOL](#) [hasFaceMinHeight](#)
Test to see if faceMinHeight has been set.
- [BOOL](#) [hasFaceThreshold](#)
Test to see if faceThreshold has been set.
- [BOOL](#) [hasReturnMedia](#)
Test to see if returnMedia has been set.
- [BOOL](#) [hasTrackingOptions](#)
Test to see if trackingOptions has been set.
- [BiometricModality](#) [modality](#)
Whether detection is for face or whole body.
- [BoolOption](#) * [returnMedia](#)
Should we return media (e.i.
- [TrackingOptions](#) * [trackingOptions](#)
Configure tracking.

5.115.1 Detailed Description

Configuration for the detection algorithm.

5.115.2 Property Documentation

5.115.2.1 algorithmId

– ([StringOption](#)*) [algorithmId](#) [read], [write], [nonatomic], [strong]
uid corresponding to which algorithm to use

5.115.2.2 attributesArray

– (NSMutableArray<[Attribute](#)*>*) [attributesArray](#) [read], [write], [nonatomic], [strong]
Used for passing algorithm specific or custom options.

5.115.2.3 attributesArray_Count

- (NSInteger) attributesArray_Count [read], [nonatomic], [assign]

The number of items in attributesArray without causing the array to be created.

5.115.2.4 best

- (BoolOption*) best [read], [write], [nonatomic], [strong]

only respond with the best candidates

5.115.2.5 bodyMinHeight

- (IntOption*) bodyMinHeight [read], [write], [nonatomic], [strong]

min size for a body detection to be considered

5.115.2.6 bodyThreshold

- (FloatOption*) bodyThreshold [read], [write], [nonatomic], [strong]

min score for candidate consideration

5.115.2.7 debug

- (BoolOption*) debug [read], [write], [nonatomic], [strong]

Save or print more info on the server side.

5.115.2.8 detectBatch

- (IntOption*) detectBatch [read], [write], [nonatomic], [strong]

batch size for detection processes

5.115.2.9 enableMetadata

- (BoolOption*) enableMetadata [read], [write], [nonatomic], [strong]

extract additional metadata and attributes (landmarks, pose, demographics, etc)

5.115.2.10 faceMinHeight

- (IntOption*) faceMinHeight [read], [write], [nonatomic], [strong]

min size for a face detection to be considered

5.115.2.11 faceThreshold

- (FloatOption*) faceThreshold [read], [write], [nonatomic], [strong]

min score for candidate consideration

5.115.2.12 hasAlgorithmId

- (BOOL) hasAlgorithmId [read], [write], [nonatomic], [assign]

Test to see if algorithmId has been set.

5.115.2.13 hasBest

- (BOOL) hasBest [read], [write], [nonatomic], [assign]

Test to see if best has been set.

5.115.2.14 hasBodyMinHeight

- (BOOL) hasBodyMinHeight [read], [write], [nonatomic], [assign]

Test to see if bodyMinHeight has been set.

5.115.2.15 hasBodyThreshold

- (BOOL) hasBodyThreshold [read], [write], [nonatomic], [assign]

Test to see if bodyThreshold has been set.

5.115.2.16 hasDebug

- (BOOL) hasDebug [read], [write], [nonatomic], [assign]

Test to see if debug has been set.

5.115.2.17 hasDetectBatch

- (BOOL) hasDetectBatch [read], [write], [nonatomic], [assign]

Test to see if detectBatch has been set.

5.115.2.18 hasEnableMetadata

- (BOOL) hasEnableMetadata [read], [write], [nonatomic], [assign]

Test to see if enableMetadata has been set.

5.115.2.19 hasFaceMinHeight

- (BOOL) hasFaceMinHeight [read], [write], [nonatomic], [assign]

Test to see if faceMinHeight has been set.

5.115.2.20 hasFaceThreshold

- (BOOL) hasFaceThreshold [read], [write], [nonatomic], [assign]

Test to see if faceThreshold has been set.

5.115.2.21 hasReturnMedia

- (BOOL) hasReturnMedia [read], [write], [nonatomic], [assign]

Test to see if returnMedia has been set.

5.115.2.22 hasTrackingOptions

- (BOOL) hasTrackingOptions [read], [write], [nonatomic], [assign]

Test to see if trackingOptions has been set.

5.115.2.23 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]
Whether detection is for face or whole body.

5.115.2.24 returnMedia

- (BoolOption*) returnMedia [read], [write], [nonatomic], [strong]
Should we return media (e.i. cropped images) related to the detections back to the client?

5.115.2.25 trackingOptions

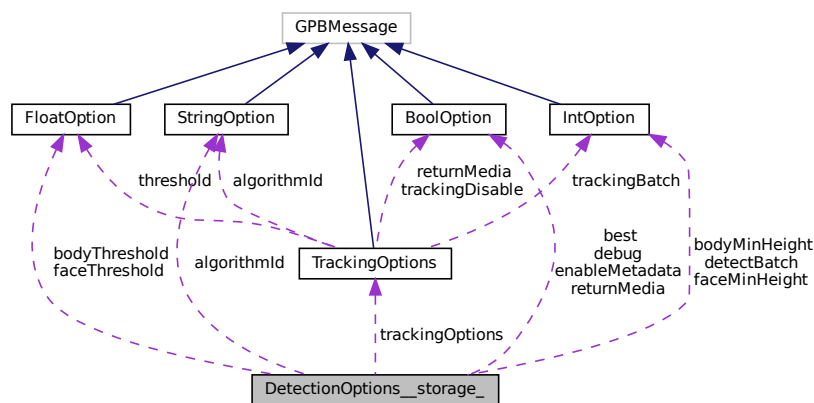
- (TrackingOptions*) trackingOptions [read], [write], [nonatomic], [strong]
Configure tracking.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.116 DetectionOptions__storage_ Struct Reference

Collaboration diagram for DetectionOptions__storage_:



Protected Attributes

- uint32_t _has_storage_ [1]
- StringOption * algorithmId
- NSMutableArray * attributesArray
- BoolOption * best
- IntOption * bodyMinHeight
- FloatOption * bodyThreshold
- BoolOption * debug
- IntOption * detectBatch
- BoolOption * enableMetadata
- IntOption * faceMinHeight
- FloatOption * faceThreshold
- BiometricModality modality
- BoolOption * returnMedia
- TrackingOptions * trackingOptions

5.116.1 Field Documentation

5.116.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.116.1.2 algorithmId

- (StringOption*) algorithmId [protected]

5.116.1.3 attributesArray

- (NSMutableArray*) attributesArray [protected]

5.116.1.4 best

- (BoolOption*) best [protected]

5.116.1.5 bodyMinHeight

- (IntOption*) bodyMinHeight [protected]

5.116.1.6 bodyThreshold

- (FloatOption*) bodyThreshold [protected]

5.116.1.7 debug

- (BoolOption*) debug [protected]

5.116.1.8 detectBatch

- (IntOption*) detectBatch [protected]

5.116.1.9 enableMetadata

- (BoolOption*) enableMetadata [protected]

5.116.1.10 faceMinHeight

- (IntOption*) faceMinHeight [protected]

5.116.1.11 faceThreshold

- (FloatOption*) faceThreshold [protected]

5.116.1.12 modality

- (BiometricModality) modality [protected]

5.116.1.13 returnMedia

- (BoolOption*) returnMedia [protected]

5.116.1.14 trackingOptions

- (TrackingOptions*) trackingOptions [protected]

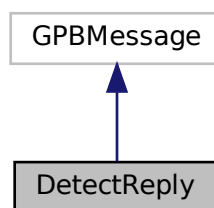
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

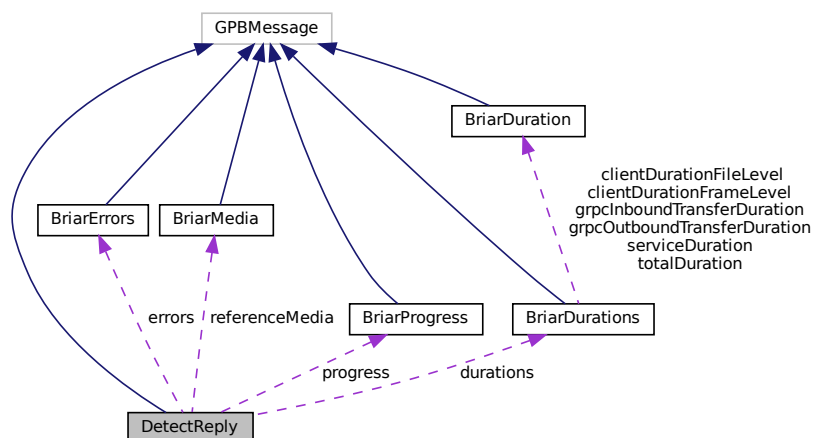
5.117 DetectReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DetectReply:



Collaboration diagram for DetectReply:



Properties

- NSMutableArray< [Detection](#) * > * [detectionsArray](#)
TODO: Fill in responses here.
- NSUInteger [detectionsArray_Count](#)
The number of items in [detectionsArray](#) without causing the array to be created.
- [BriarDurations](#) * [durations](#)
REQUIRED: Log the time needed to complete the request on the server.
- [BriarErrors](#) * [errors](#)
- int64_t [frameld](#)
REQUIRED: The id of the media frame associated with the detections.
- BOOL [hasDurations](#)
Test to see if [durations](#) has been set.
- BOOL [hasErrors](#)
Test to see if [errors](#) has been set.
- BOOL [hasProgress](#)
Test to see if [progress](#) has been set.
- BOOL [hasReferenceMedia](#)
Test to see if [referenceMedia](#) has been set.
- enum BiometricModality [modality](#)
OPTIONAL: the modality detected.
- [BriarProgress](#) * [progress](#)
REQUIRED: provides progress updates for progress bar display.
- BOOL [progressOnlyReply](#)
REQUIRED: set to true if this is a reply only providing a progress update to the API.
- [BriarMedia](#) * [referenceMedia](#)
OPTIONAL: put reference media here to return it to the API.

5.117.1 Property Documentation

5.117.1.1 [detectionsArray](#)

- (NSMutableArray<[Detection](#)*>*) [detectionsArray](#) [read], [write], [nonatomic], [strong]
 TODO: Fill in responses here.
 Tracks, Optional Attributes, Optional Templates

5.117.1.2 [detectionsArray_Count](#)

- (NSUInteger) [detectionsArray_Count](#) [read], [nonatomic], [assign]
 The number of items in [detectionsArray](#) without causing the array to be created.

5.117.1.3 [durations](#)

- ([BriarDurations](#)*) [durations](#) [read], [write], [nonatomic], [strong]
 REQUIRED: Log the time needed to complete the request on the server.

5.117.1.4 [errors](#)

- ([BriarErrors](#)*) [errors](#) [read], [write], [nonatomic], [strong]

5.117.1.5 frameId

- (int64_t) frameId [read], [write], [nonatomic], [assign]
 REQUIRED: The id of the media frame associated with the detections.

5.117.1.6 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
 Test to see if durations has been set.

5.117.1.7 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]
 Test to see if errors has been set.

5.117.1.8 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]
 Test to see if progress has been set.

5.117.1.9 hasReferenceMedia

- (BOOL) hasReferenceMedia [read], [write], [nonatomic], [assign]
 Test to see if referenceMedia has been set.

5.117.1.10 modality

- (enum BiometricModality) modality [read], [write], [nonatomic], [assign]
 OPTIONAL: the modality detected.

5.117.1.11 progress

- (BriarProgress*) progress [read], [write], [nonatomic], [strong]
 REQUIRED: provides progress updates for progress bar display.
 See example code for details

5.117.1.12 progressOnlyReply

- (BOOL) progressOnlyReply [read], [write], [nonatomic], [assign]
 REQUIRED: set to true if this is a reply only providing a progress update to the API.
 If progress_only_reply is set to True, nothing else in the reply needs to be populated

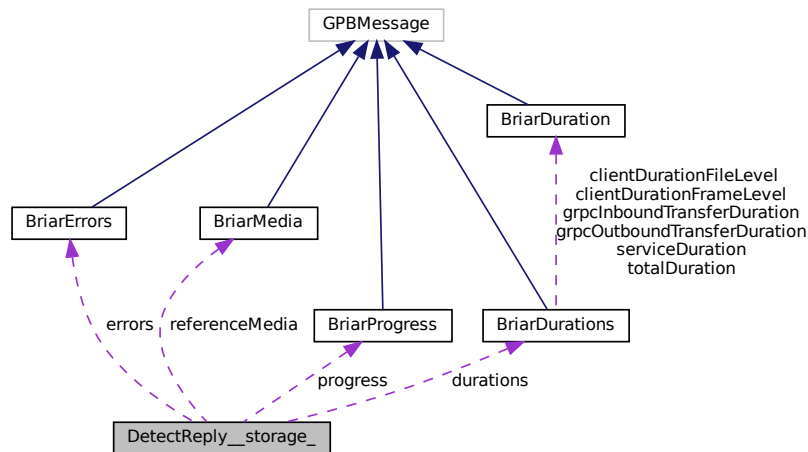
5.117.1.13 referenceMedia

- (BriarMedia*) referenceMedia [read], [write], [nonatomic], [strong]
 OPTIONAL: put reference media here to return it to the API.
 This will slow down your API reply and is not currently used by the CLI
 The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.118 DetectReply__storage_ Struct Reference

Collaboration diagram for DetectReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `NSMutableArray * detectionsArray`
- `BriarDurations * durations`
- `BriarErrors * errors`
- `int64_t frameId`
- `BiometricModality modality`
- `BriarProgress * progress`
- `BriarMedia * referenceMedia`

5.118.1 Field Documentation

5.118.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.118.1.2 detectionsArray

```
- (NSMutableArray*) detectionsArray [protected]
```

5.118.1.3 durations

```
- (BriarDurations*) durations [protected]
```

5.118.1.4 errors

```
- (BriarErrors*) errors [protected]
```

5.118.1.5 frameId

- (int64_t) frameId [protected]

5.118.1.6 modality

- (BiometricModality) modality [protected]

5.118.1.7 progress

- (BriarProgress*) progress [protected]

5.118.1.8 referenceMedia

- (BriarMedia*) referenceMedia [protected]

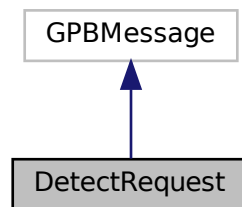
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

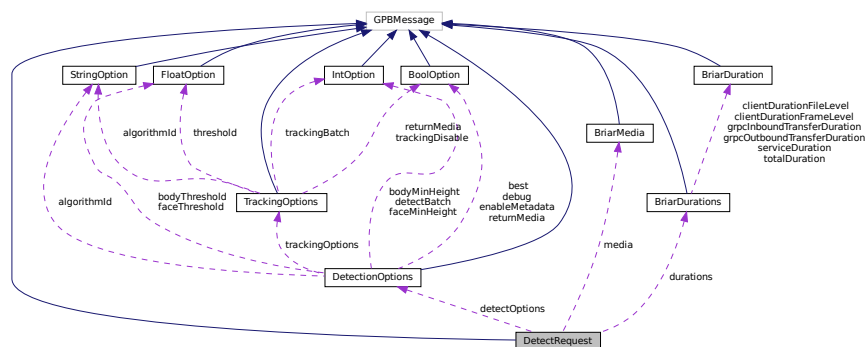
5.119 DetectRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for DetectRequest:



Collaboration diagram for DetectRequest:



Properties

- [DetectionOptions](#) * [detectOptions](#)
Hyperparameters to run the detection with.
- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- NSString * [entryName](#)
Optional name of subject in the video.
- enum EntryType [entryType](#)
string entry_id = 3; // Optional unique id of subject the video
- int32_t [frame](#)
What frame of the video this is.
- BOOL [hasDetectOptions](#)
Test to see if detectOptions has been set.
- BOOL [hasDurations](#)
Test to see if durations has been set.
- BOOL [hasMedia](#)
Test to see if media has been set.
- [BriarMedia](#) * [media](#)
The video media to detect from.
- NSString * [mediald](#)
ID of media this detection will belong to.
- NSString * [subjectId](#)
ID of subject this detection will belong to.

5.119.1 Property Documentation

5.119.1.1 detectOptions

– ([DetectionOptions](#)*) [detectOptions](#) [read], [write], [nonatomic], [strong]
Hyperparameters to run the detection with.

5.119.1.2 durations

– ([BriarDurations](#)*) [durations](#) [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.119.1.3 entryName

– (NSString*) [entryName](#) [read], [write], [nonatomic], [copy]
Optional name of subject in the video.

5.119.1.4 entryType

– (enum EntryType) [entryType](#) [read], [write], [nonatomic], [assign]
string entry_id = 3; // Optional unique id of subject the video

5.119.1.5 frame

- (int32_t) frame [read], [write], [nonatomic], [assign]

What frame of the video this is.

5.119.1.6 hasDetectOptions

- (BOOL) hasDetectOptions [read], [write], [nonatomic], [assign]

Test to see if detectOptions has been set.

5.119.1.7 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if durations has been set.

5.119.1.8 hasMedia

- (BOOL) hasMedia [read], [write], [nonatomic], [assign]

Test to see if media has been set.

5.119.1.9 media

- (BriarMedia*) media [read], [write], [nonatomic], [strong]

The video media to detect from.

5.119.1.10 mediaId

- (NSString*) mediaId [read], [write], [nonatomic], [copy]

ID of media this detection will belong to.

5.119.1.11 subjectId

- (NSString*) subjectId [read], [write], [nonatomic], [copy]

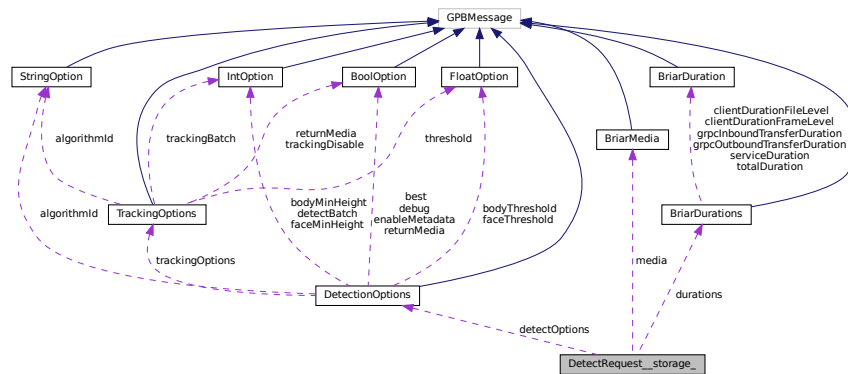
ID of subject this detection will belong to.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.120 DetectRequest__storage__ Struct Reference

Collaboration diagram for DetectRequest__storage__:



Protected Attributes

- uint32_t `_has_storage_` [1]
- [DetectionOptions](#) * `detectOptions`
- [BriarDurations](#) * `durations`
- NSString * `entryName`
- EntryType `entryType`
- int32_t `frame`
- [BriarMedia](#) * `media`
- NSString * `mediald`
- NSString * `subjectId`

5.120.1 Field Documentation

5.120.1.1 `_has_storage_`

```
- (uint32_t _has_storage_[1]) [protected]
```

5.120.1.2 `detectOptions`

```
- (DetectionOptions*) detectOptions [protected]
```

5.120.1.3 `durations`

```
- (BriarDurations*) durations [protected]
```

5.120.1.4 `entryName`

```
- (NSString*) entryName [protected]
```

5.120.1.5 entryType

- (EntryType) entryType [protected]

5.120.1.6 frame

- (int32_t) frame [protected]

5.120.1.7 media

- (BriarMedia*) media [protected]

5.120.1.8 mediaId

- (NSString*) mediaId [protected]

5.120.1.9 subjectId

- (NSString*) subjectId [protected]

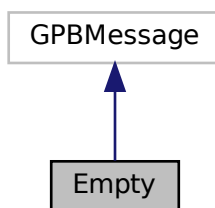
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

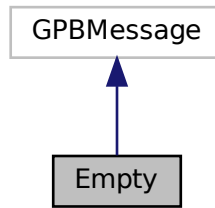
5.121 Empty Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for Empty:



Collaboration diagram for Empty:



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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.122 Empty__storage_ Struct Reference

Data Fields

- `uint32_t _has_storage_ [1]`

5.122.1 Field Documentation

5.122.1.1 _has_storage_

```
uint32_t Empty__storage_::_has_storage_[1]
```

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

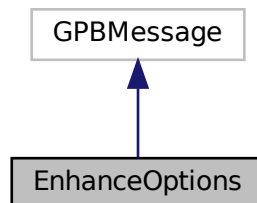
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

5.123 EnhanceOptions Class Reference

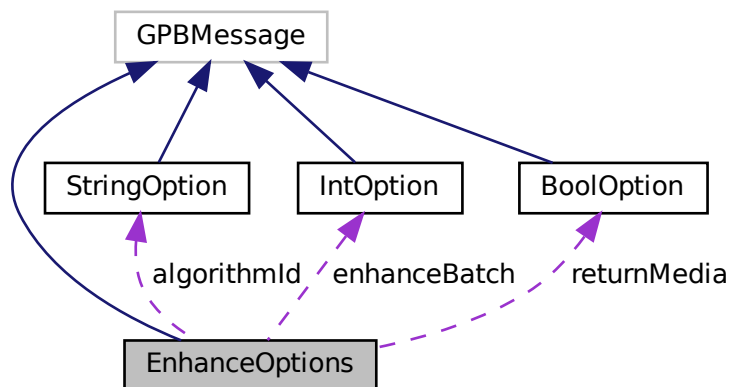
Configuration for the detection algorithm.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for EnhanceOptions:



Collaboration diagram for EnhanceOptions:



Properties

- [StringOption](#) * [algorithmId](#)
uid corresponding to which algorithm to use
- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
Used for passing algorithm specific or custom options.
- NSUInteger [attributesArray_Count](#)
The number of items in attributesArray without causing the array to be created.
- BOOL [cropped](#)
- [IntOption](#) * [enhanceBatch](#)
batch size for enhancement processes
- BOOL [hasAlgorithmId](#)
Test to see if algorithmId has been set.
- BOOL [hasEnhanceBatch](#)
Test to see if enhanceBatch has been set.
- BOOL [hasReturnMedia](#)
Test to see if returnMedia has been set.
- BiometricModality [modality](#)
Whether detection is for face or whole body.
- [BoolOption](#) * [returnMedia](#)
Should we return media (e.i.

5.123.1 Detailed Description

Configuration for the detection algorithm.

5.123.2 Property Documentation

5.123.2.1 algorithmId

- ([StringOption*](#)) algorithmId [read], [write], [nonatomic], [strong]
uid corresponding to which algorithm to use

5.123.2.2 attributesArray

- ([NSMutableArray<Attribute*>*](#)) attributesArray [read], [write], [nonatomic], [strong]
Used for passing algorithm specific or custom options.

5.123.2.3 attributesArray_Count

- ([NSUInteger](#)) attributesArray_Count [read], [nonatomic], [assign]
The number of items in attributesArray without causing the array to be created.

5.123.2.4 cropped

- ([BOOL](#)) cropped [read], [write], [nonatomic], [assign]

5.123.2.5 enhanceBatch

- ([IntOption*](#)) enhanceBatch [read], [write], [nonatomic], [strong]
batch size for enhancement processes

5.123.2.6 hasAlgorithmId

- ([BOOL](#)) hasAlgorithmId [read], [write], [nonatomic], [assign]
Test to see if algorithmId has been set.

5.123.2.7 hasEnhanceBatch

- ([BOOL](#)) hasEnhanceBatch [read], [write], [nonatomic], [assign]
Test to see if enhanceBatch has been set.

5.123.2.8 hasReturnMedia

- ([BOOL](#)) hasReturnMedia [read], [write], [nonatomic], [assign]
Test to see if returnMedia has been set.

5.123.2.9 modality

- ([BiometricModality](#)) modality [read], [write], [nonatomic], [assign]
Whether detection is for face or whole body.

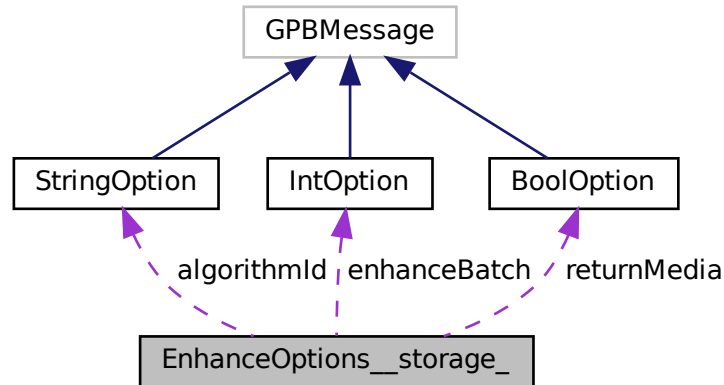
5.123.2.10 returnMedia

- ([BoolOption*](#)) returnMedia [read], [write], [nonatomic], [strong]
Should we return media (e.i. cropped images) related to the detections back to the client?
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[Briar.pbobjc.h](#)

5.124 EnhanceOptions__storage_ Struct Reference

Collaboration diagram for EnhanceOptions__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `StringOption * algorithmId`
- `NSMutableArray * attributesArray`
- `IntOption * enhanceBatch`
- `BiometricModality modality`
- `BoolOption * returnMedia`

5.124.1 Field Documentation

5.124.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.124.1.2 algorithmId

```
- (StringOption*) algorithmId [protected]
```

5.124.1.3 attributesArray

```
- (NSMutableArray*) attributesArray [protected]
```

5.124.1.4 enhanceBatch

```
- (IntOption*) enhanceBatch [protected]
```


5.124.1.5 modality

- (BiometricModality) modality [protected]

5.124.1.6 returnMedia

- (BoolOption*) returnMedia [protected]

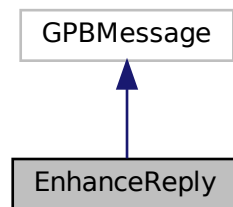
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

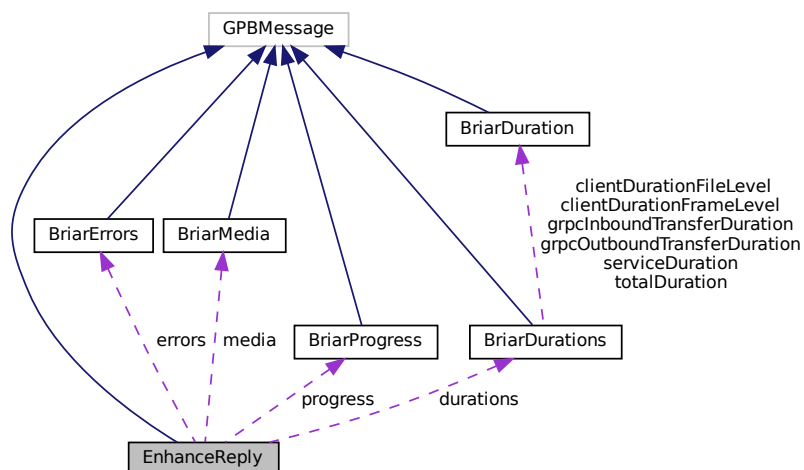
5.125 EnhanceReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for EnhanceReply:



Collaboration diagram for EnhanceReply:



Properties

- [BriarDurations](#) * durations

- Log the time needed to complete the request on the server.*
- [BriarErrors](#) * [errors](#)
 - Indicate any errors or warnings.*
- [BOOL](#) [hasDurations](#)
 - Test to see if `durations` has been set.*
- [BOOL](#) [hasErrors](#)
 - Test to see if `errors` has been set.*
- [BOOL](#) [hasMedia](#)
 - Test to see if `media` has been set.*
- [BOOL](#) [hasProgress](#)
 - Test to see if `progress` has been set.*
- [BriarMedia](#) * [media](#)
 - REQUIRED: The enhanced result.*
- [BriarProgress](#) * [progress](#)
 - OPTIONAL: provides progress updates for progress bar display.*
- [BOOL](#) [progressOnlyReply](#)
 - REQUIRED: set to true if this is a reply only providing a progress update to the API.*

5.125.1 Property Documentation

5.125.1.1 durations

- ([BriarDurations](#)*) `durations` [read], [write], [nonatomic], [strong]
 Log the time needed to complete the request on the server.

5.125.1.2 errors

- ([BriarErrors](#)*) `errors` [read], [write], [nonatomic], [strong]
 Indicate any errors or warnings.

5.125.1.3 hasDurations

- ([BOOL](#)) `hasDurations` [read], [write], [nonatomic], [assign]
 Test to see if `durations` has been set.

5.125.1.4 hasErrors

- ([BOOL](#)) `hasErrors` [read], [write], [nonatomic], [assign]
 Test to see if `errors` has been set.

5.125.1.5 hasMedia

- ([BOOL](#)) `hasMedia` [read], [write], [nonatomic], [assign]
 Test to see if `media` has been set.

5.125.1.6 hasProgress

- ([BOOL](#)) `hasProgress` [read], [write], [nonatomic], [assign]
 Test to see if `progress` has been set.

5.125.1.7 media

- ([BriarMedia*](#)) media [read], [write], [nonatomic], [strong]
 REQUIRED: The enhanced result.

5.125.1.8 progress

- ([BriarProgress*](#)) progress [read], [write], [nonatomic], [strong]
 OPTIONAL: provides progress updates for progress bar display.
 See example code for details

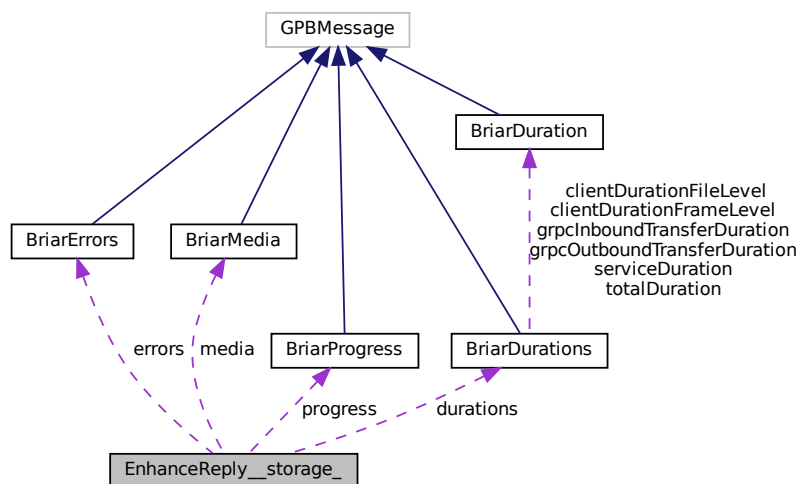
5.125.1.9 progressOnlyReply

- (BOOL) progressOnlyReply [read], [write], [nonatomic], [assign]
 REQUIRED: set to true if this is a reply only providing a progress update to the API.
 If progress_only_reply is set to True, nothing else in the reply needs to be populated
 The documentation for this class was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.126 EnhanceReply__storage__ Struct Reference

Collaboration diagram for EnhanceReply__storage__:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- [BriarDurations](#) * durations
- [BriarErrors](#) * errors
- [BriarMedia](#) * media
- [BriarProgress](#) * progress

5.126.1 Field Documentation

5.126.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.126.1.2 `durations`

- ([BriarDurations*](#)) `durations` [protected]

5.126.1.3 `errors`

- ([BriarErrors*](#)) `errors` [protected]

5.126.1.4 `media`

- ([BriarMedia*](#)) `media` [protected]

5.126.1.5 `progress`

- ([BriarProgress*](#)) `progress` [protected]

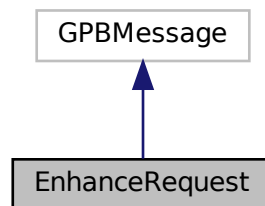
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

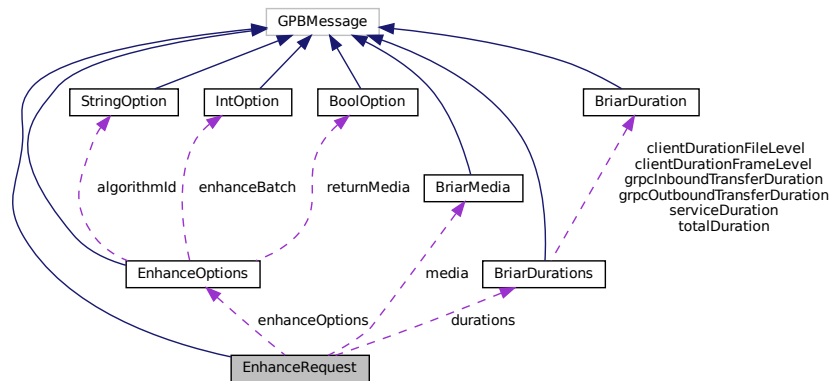
5.127 EnhanceRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for EnhanceRequest:



Collaboration diagram for EnhanceRequest:



Properties

- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- [EnhanceOptions](#) * [enhanceOptions](#)
enhance options provided by the API
- `int64_t` [frameId](#)
The id of the media frame associated with the detections.
- `BOOL` [hasDurations](#)
Test to see if `durations` has been set.
- `BOOL` [hasEnhanceOptions](#)
Test to see if `enhanceOptions` has been set.
- `BOOL` [hasMedia](#)
Test to see if `media` has been set.
- [BriarMedia](#) * [media](#)
The image or video to enhance.
- `NSMutableArray< Attribute * > *` [metadataArray](#)
Metadata on the video to select enhancement parameters.
- `NSUInteger` [metadataArray_Count](#)
The number of items in `metadataArray` without causing the array to be created.
- `NSMutableArray< Attribute * > *` [optionsArray](#)
Algorithm specific options.
- `NSUInteger` [optionsArray_Count](#)
The number of items in `optionsArray` without causing the array to be created.

5.127.1 Property Documentation

5.127.1.1 durations

– ([BriarDurations](#)*) `durations` `[read]`, `[write]`, `[nonatomic]`, `[strong]`
Log the time needed to complete the request on the server.

5.127.1.2 enhanceOptions

- ([EnhanceOptions*](#)) enhanceOptions [read], [write], [nonatomic], [strong]
enhance options provided by the API

5.127.1.3 frameId

- (int64_t) frameId [read], [write], [nonatomic], [assign]
The id of the media frame associated with the detections.

5.127.1.4 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.127.1.5 hasEnhanceOptions

- (BOOL) hasEnhanceOptions [read], [write], [nonatomic], [assign]
Test to see if enhanceOptions has been set.

5.127.1.6 hasMedia

- (BOOL) hasMedia [read], [write], [nonatomic], [assign]
Test to see if media has been set.

5.127.1.7 media

- ([BriarMedia*](#)) media [read], [write], [nonatomic], [strong]
The image or video to enhance.

5.127.1.8 metadataArray

- (NSMutableArray<[Attribute*>*\) metadataArray \[read\], \[write\], \[nonatomic\], \[strong\]
Metadata on the video to select enhancement parameters.](#)

5.127.1.9 metadataArray_Count

- (NSUInteger) metadataArray_Count [read], [nonatomic], [assign]
The number of items in metadataArray without causing the array to be created.

5.127.1.10 optionsArray

- (NSMutableArray<[Attribute*>*\) optionsArray \[read\], \[write\], \[nonatomic\], \[strong\]
Algorithm specific options.](#)

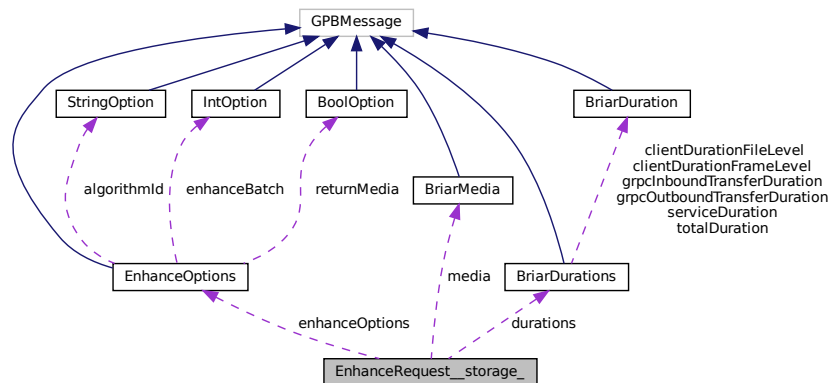
5.127.1.11 optionsArray_Count

- (NSUInteger) optionsArray_Count [read], [nonatomic], [assign]
The number of items in optionsArray without causing the array to be created.
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.128 EnhanceRequest__storage__ Struct Reference

Collaboration diagram for EnhanceRequest__storage__:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDurations * durations`
- `EnhanceOptions * enhanceOptions`
- `int64_t frameId`
- `BriarMedia * media`
- `NSMutableArray * metadataArray`
- `NSMutableArray * optionsArray`

5.128.1 Field Documentation

5.128.1.1 _has_storage_

– `(uint32_t _has_storage_[1])` [protected]

5.128.1.2 durations

– `(BriarDurations*) durations` [protected]

5.128.1.3 enhanceOptions

– `(EnhanceOptions*) enhanceOptions` [protected]

5.128.1.4 frameId

– `(int64_t) frameId` [protected]

5.128.1.5 media

– `(BriarMedia*) media` [protected]

5.128.1.6 metadataArray

```
- (NSMutableArray*) metadataArray [protected]
```

5.128.1.7 optionsArray

```
- (NSMutableArray*) optionsArray [protected]
```

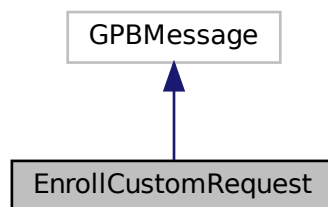
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

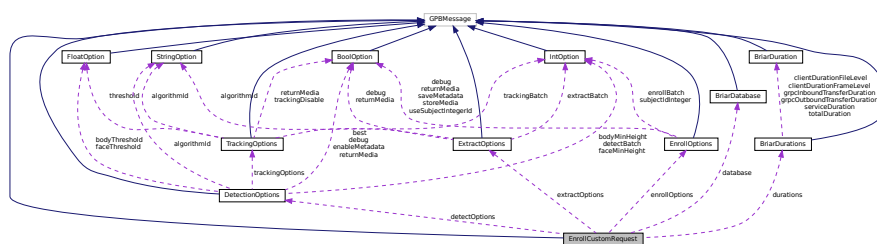
5.129 EnrollCustomRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for EnrollCustomRequest:



Collaboration diagram for EnrollCustomRequest:



Properties

- **BriarDatabase** * **database**
The database to enroll into.
- **DetectionOptions** * **detectOptions**
Hyperparameters to run the detection with.
- **BriarDurations** * **durations**
Log the time needed to complete the request on the server.
- **EnrollOptions** * **enrollOptions**
How this is to be enrolled in the database.
- **ExtractOptions** * **extractOptions**
Hyperparameters to run the extraction with.

- BOOL [hasDatabase](#)
Test to see if database has been set.
- BOOL [hasDetectOptions](#)
Test to see if detectOptions has been set.
- BOOL [hasDurations](#)
Test to see if durations has been set.
- BOOL [hasEnrollOptions](#)
Test to see if enrollOptions has been set.
- BOOL [hasExtractOptions](#)
Test to see if extractOptions has been set.
- NSData * [sigsetEncoded](#)
The signature set in an encoded json format created from a Pandas dataframe.
- NSString * [sigsetName](#)
The name of the sigset.

5.129.1 Property Documentation

5.129.1.1 database

– ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]
The database to enroll into.

5.129.1.2 detectOptions

– ([DetectionOptions*](#)) detectOptions [read], [write], [nonatomic], [strong]
Hyperparameters to run the detection with.

5.129.1.3 durations

– ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.129.1.4 enrollOptions

– ([EnrollOptions*](#)) enrollOptions [read], [write], [nonatomic], [strong]
How this is to be enrolled in the database.

5.129.1.5 extractOptions

– ([ExtractOptions*](#)) extractOptions [read], [write], [nonatomic], [strong]
Hyperparameters to run the extraction with.

5.129.1.6 hasDatabase

– (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

- [EnrollOptions](#) * `enrollOptions`
- [ExtractOptions](#) * `extractOptions`
- NSData * `sigsetEncoded`
- NSString * `sigsetName`

5.130.1 Field Documentation

5.130.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.130.1.2 `database`

- ([BriarDatabase](#)*) `database` [protected]

5.130.1.3 `detectOptions`

- ([DetectionOptions](#)*) `detectOptions` [protected]

5.130.1.4 `durations`

- ([BriarDurations](#)*) `durations` [protected]

5.130.1.5 `enrollOptions`

- ([EnrollOptions](#)*) `enrollOptions` [protected]

5.130.1.6 `extractOptions`

- ([ExtractOptions](#)*) `extractOptions` [protected]

5.130.1.7 `sigsetEncoded`

- (NSData*) `sigsetEncoded` [protected]

5.130.1.8 `sigsetName`

- (NSString*) `sigsetName` [protected]

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

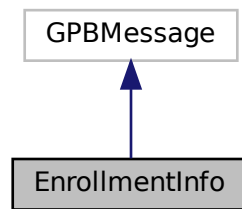
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

5.131 EnrollmentInfo Class Reference

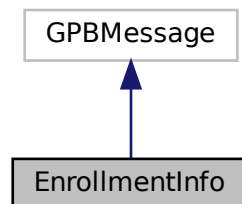
Information about the entity being enrolled.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for EnrollmentInfo:



Collaboration diagram for EnrollmentInfo:



Properties

- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
Used for passing additional metadata.
- NSInteger [attributesArray_Count](#)
The number of items in attributesArray without causing the array to be created.
- NSString * [databaseId](#)
uuid for this database
- NSString * [mediaId](#)
- NSString * [name](#)
name of subject, if known
- NSString * [source](#)
Describes the the media source.
- NSString * [subjectId](#)
OPTIONAL unique id of the given input subject within a media.
- EntryType [type](#)
subject_id or media_id

5.131.1 Detailed Description

Information about the entity being enrolled.

5.131.2 Property Documentation

5.131.2.1 attributesArray

- (NSMutableArray<Attribute*>*) attributesArray [read], [write], [nonatomic], [strong]
Used for passing additional metadata.

5.131.2.2 attributesArray_Count

- (NSUInteger) attributesArray_Count [read], [nonatomic], [assign]
The number of items in attributesArray without causing the array to be created.

5.131.2.3 databaseId

- (NSString*) databaseId [read], [write], [nonatomic], [copy]
uuid for this database

5.131.2.4 mediaId

- (NSString*) mediaId [read], [write], [nonatomic], [copy]

string entry_id = 2; // uuid for this entry (this is unique, typically subject_id or media_id)

OPTIONAL unique id of the given input media. If not provide a unique id should be assigned by the service:
UNKNOWN_#####.

5.131.2.5 name

- (NSString*) name [read], [write], [nonatomic], [copy]
name of subject, if known

5.131.2.6 source

- (NSString*) source [read], [write], [nonatomic], [copy]
Describes the the media source.

5.131.2.7 subjectId

- (NSString*) subjectId [read], [write], [nonatomic], [copy]
OPTIONAL unique id of the given input subject within a media.
If not provide a unique id should be assigned by the service: UNKNOWN_#####.

5.131.2.8 type

- (EntryType) type [read], [write], [nonatomic], [assign]
subject_id or media_id
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.132 EnrollmentInfo__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [attributesArray](#)
- NSString * [databaseId](#)
- NSString * [mediaId](#)
- NSString * [name](#)
- NSString * [source](#)
- NSString * [subjectId](#)
- EntryType [type](#)

5.132.1 Field Documentation

5.132.1.1 [_has_storage_](#)

- (uint32_t [_has_storage_](#)[1]) [protected]

5.132.1.2 [attributesArray](#)

- (NSMutableArray*) [attributesArray](#) [protected]

5.132.1.3 [databaseId](#)

- (NSString*) [databaseId](#) [protected]

5.132.1.4 [mediaId](#)

- (NSString*) [mediaId](#) [protected]

5.132.1.5 [name](#)

- (NSString*) [name](#) [protected]

5.132.1.6 [source](#)

- (NSString*) [source](#) [protected]

5.132.1.7 [subjectId](#)

- (NSString*) [subjectId](#) [protected]

5.132.1.8 [type](#)

- (EntryType) [type](#) [protected]

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

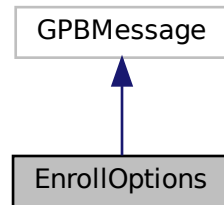
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.133 EnrollOptions Class Reference

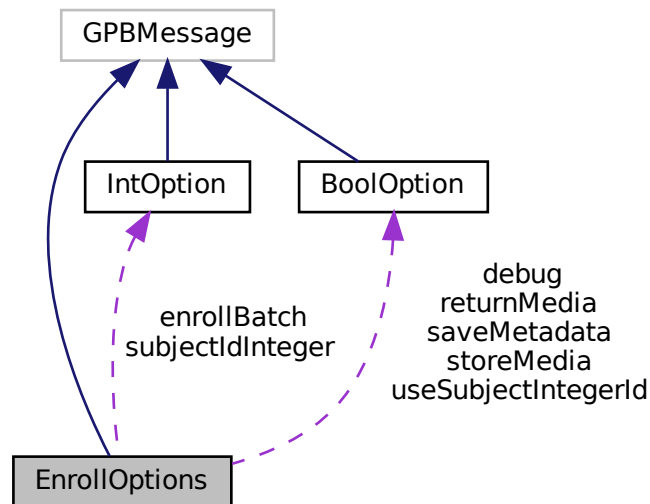
Defines actions to take when enrolling into a gallery.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for EnrollOptions:



Collaboration diagram for EnrollOptions:



Properties

- `NSMutableArray< Attribute * > * attributesArray`
Used for passing algorithm specific options.
- `NSUInteger attributesArray_Count`
The number of items in `attributesArray` without causing the array to be created.
- `BoolOption * debug`
Save or print more info on the server side.
- `IntOption * enrollBatch`
`string entry_id = 4;`

- EnrollFlags [enrollFlag](#)
- EntryType [entryType](#)
Type of entry, either 'subject' or 'media'.
- BOOL [hasDebug](#)
Test to see if debug has been set.
- BOOL [hasEnrollBatch](#)
Test to see if enrollBatch has been set.
- BOOL [hasReturnMedia](#)
Test to see if returnMedia has been set.
- BOOL [hasSaveMetadata](#)
Test to see if saveMetadata has been set.
- BOOL [hasStoreMedia](#)
Test to see if storeMedia has been set.
- BOOL [hasSubjectIdInteger](#)
Test to see if subjectIdInteger has been set.
- BOOL [hasUseSubjectIntegerId](#)
Test to see if useSubjectIntegerId has been set.
- NSString * [mediaId](#)
ID of media this record belongs to (should be unique per record)
- BiometricModality [modality](#)
Modality of enrollment (i.e.
- BoolOption * [returnMedia](#)
Should we return media (e.i.
- BoolOption * [saveMetadata](#)
log the image on the server - Useful for debugging and record keeping
- BoolOption * [storeMedia](#)
Should the database store the media along with templates for searching.
- IntOption * [subjectIdInteger](#)
DEPRICATED: FOR LEGACY SYSTEMS ONLY.
- NSMutableArray< NSString * > * [subjectIdsArray](#)
ID or list of IDs of subject(s) this record belongs to.
- NSUInteger [subjectIdsArray_Count](#)
The number of items in subjectIdsArray without causing the array to be created.
- BoolOption * [useSubjectIntegerId](#)
DEPRICATED: FOR LEGACY SYSTEMS ONLY.

5.133.1 Detailed Description

Defines actions to take when enrolling into a gallery.

5.133.2 Property Documentation

5.133.2.1 attributesArray

– (NSMutableArray<Attribute*>*) attributesArray [read], [write], [nonatomic], [strong]
Used for passing algorithm specific options.

5.133.2.2 attributesArray_Count

– (NSUInteger) attributesArray_Count [read], [nonatomic], [assign]
The number of items in attributesArray without causing the array to be created.

5.133.2.3 debug

- (BoolOption*) debug [read], [write], [nonatomic], [strong]
Save or print more info on the server side.

5.133.2.4 enrollBatch

- (IntOption*) enrollBatch [read], [write], [nonatomic], [strong]
string entry_id = 4;

5.133.2.5 enrollFlag

- (EnrollFlags) enrollFlag [read], [write], [nonatomic], [assign]

5.133.2.6 entryType

- (EntryType) entryType [read], [write], [nonatomic], [assign]
Type of entry, either 'subject' or 'media'.

5.133.2.7 hasDebug

- (BOOL) hasDebug [read], [write], [nonatomic], [assign]
Test to see if debug has been set.

5.133.2.8 hasEnrollBatch

- (BOOL) hasEnrollBatch [read], [write], [nonatomic], [assign]
Test to see if enrollBatch has been set.

5.133.2.9 hasReturnMedia

- (BOOL) hasReturnMedia [read], [write], [nonatomic], [assign]
Test to see if returnMedia has been set.

5.133.2.10 hasSaveMetadata

- (BOOL) hasSaveMetadata [read], [write], [nonatomic], [assign]
Test to see if saveMetadata has been set.

5.133.2.11 hasStoreMedia

- (BOOL) hasStoreMedia [read], [write], [nonatomic], [assign]
Test to see if storeMedia has been set.

5.133.2.12 hasSubjectIdInteger

- (BOOL) hasSubjectIdInteger [read], [write], [nonatomic], [assign]
Test to see if subjectIdInteger has been set.

5.133.2.13 hasUseSubjectIntegerId

- (BOOL) hasUseSubjectIntegerId [read], [write], [nonatomic], [assign]
Test to see if useSubjectIntegerId has been set.

5.133.2.14 mediaId

- (NSString*) mediaId [read], [write], [nonatomic], [copy]
ID of media this record belongs to (should be unique per record)

5.133.2.15 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]
Modality of enrollment (i.e.
face or whole body)

5.133.2.16 returnMedia

- (BoolOption*) returnMedia [read], [write], [nonatomic], [strong]
Should we return media (e.i.
cropped images) related to the detections back to the client?

5.133.2.17 saveMetadata

- (BoolOption*) saveMetadata [read], [write], [nonatomic], [strong]
log the image on the server - Useful for debugging and record keeping

5.133.2.18 storeMedia

- (BoolOption*) storeMedia [read], [write], [nonatomic], [strong]
Should the database store the media along with templates for searching.

5.133.2.19 subjectIdInteger

- (IntOption*) subjectIdInteger [read], [write], [nonatomic], [strong]
DEPRICATED: FOR LEGACY SYSTEMS ONLY.
Provides an integer-version of a subject ID

5.133.2.20 subjectIdsArray

- (NSMutableArray<NSString*>*) subjectIdsArray [read], [write], [nonatomic], [strong]
ID or list of IDs of subject(s) this record belongs to.

5.133.2.21 subjectIdsArray_Count

- (NSUInteger) subjectIdsArray_Count [read], [nonatomic], [assign]
The number of items in subjectIdsArray without causing the array to be created.

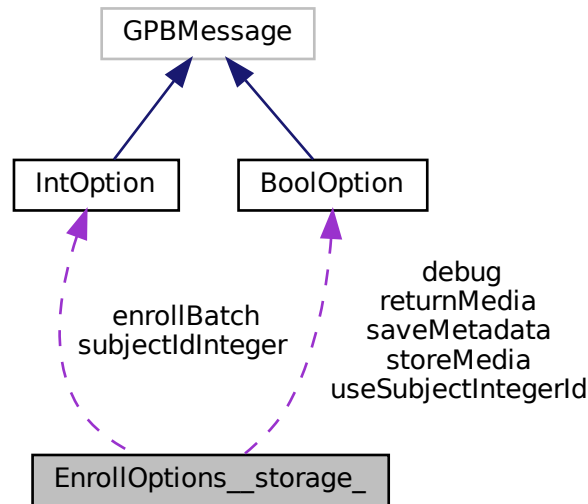
5.133.2.22 useSubjectIntegerId

- (BoolOption*) useSubjectIntegerId [read], [write], [nonatomic], [strong]
DEPRICATED: FOR LEGACY SYSTEMS ONLY.
Provides an integer-version of a subject ID
The documentation for this class was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.134 EnrollOptions__storage_ Struct Reference

Collaboration diagram for EnrollOptions__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `NSMutableArray * attributesArray`
- `BoolOption * debug`
- `IntOption * enrollBatch`
- `EnrollFlags enrollFlag`
- `EntryType entryType`
- `NSString * mediaId`
- `BiometricModality modality`
- `BoolOption * returnMedia`
- `BoolOption * saveMetadata`
- `BoolOption * storeMedia`
- `IntOption * subjectIdInteger`
- `NSMutableArray * subjectIdsArray`
- `BoolOption * useSubjectIntegerId`

5.134.1 Field Documentation

5.134.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.134.1.2 attributesArray

- (NSMutableArray*) attributesArray [protected]

5.134.1.3 debug

- (BoolOption*) debug [protected]

5.134.1.4 enrollBatch

- (IntOption*) enrollBatch [protected]

5.134.1.5 enrollFlag

- (EnrollFlags) enrollFlag [protected]

5.134.1.6 entryType

- (EntryType) entryType [protected]

5.134.1.7 mediaId

- (NSString*) mediaId [protected]

5.134.1.8 modality

- (BiometricModality) modality [protected]

5.134.1.9 returnMedia

- (BoolOption*) returnMedia [protected]

5.134.1.10 saveMetadata

- (BoolOption*) saveMetadata [protected]

5.134.1.11 storeMedia

- (BoolOption*) storeMedia [protected]

5.134.1.12 subjectIdInteger

- (IntOption*) subjectIdInteger [protected]

5.134.1.13 subjectIdsArray

- (NSMutableArray*) subjectIdsArray [protected]

5.134.1.14 useSubjectIntegerId

– (BoolOption*) useSubjectIntegerId [protected]

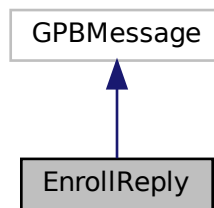
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

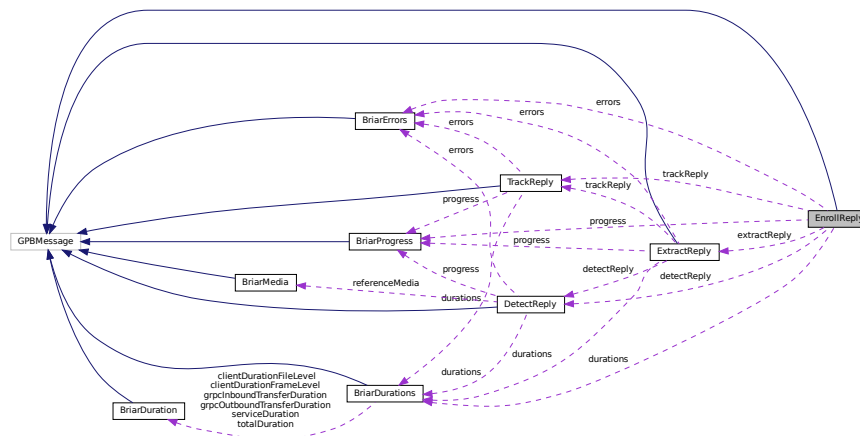
5.135 EnrollReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for EnrollReply:



Collaboration diagram for EnrollReply:



Properties

- NSMutableArray< [Detection](#) * > * [detectionsArray](#)
DEPRICATED: FOR LEGACY SYSTEMS ONLY.
- NSUInteger [detectionsArray_Count](#)
The number of items in `detectionsArray` without causing the array to be created.
- [DetectReply](#) * [detectReply](#)
OPTIONAL: A dectect reply to be populated if the service is sending intermediate detection results back to the client.
- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.

- NSMutableArray< [EnrollmentInfo](#) * > * [enrollmentsArray](#)
OPTIONAL: Information about the enrollments.
- NSUInteger [enrollmentsArray_Count](#)
The number of items in `enrollmentsArray` without causing the array to be created.
- [BriarErrors](#) * [errors](#)
- [ExtractReply](#) * [extractReply](#)
OPTIONAL: An extract reply to be populated if the service is sending intermediate extraction results back to the client.
- int64_t [frameId](#)
OPTIONAL: The id of the media frame associated with the detections.
- BOOL [hasDetectReply](#)
Test to see if `detectReply` has been set.
- BOOL [hasDurations](#)
Test to see if `durations` has been set.
- BOOL [hasErrors](#)
Test to see if `errors` has been set.
- BOOL [hasExtractReply](#)
Test to see if `extractReply` has been set.
- BOOL [hasProgress](#)
Test to see if `progress` has been set.
- BOOL [hasTrackReply](#)
Test to see if `trackReply` has been set.
- [BriarProgress](#) * [progress](#)
OPTIONAL: provides progress updates for progress bar display.
- BOOL [progressOnlyReply](#)
REQUIRED: set to true if this is a reply only providing a progress update to the API.
- [TrackReply](#) * [trackReply](#)
OPTIONAL: A track reply to be populated if the service is sending intermediate detection results back to the client.

5.135.1 Property Documentation

5.135.1.1 `detectionsArray`

- (NSMutableArray<[Detection](#)*>*) `detectionsArray` [read], [write], [nonatomic], [strong]
 DEPRICATED: FOR LEGACY SYSTEMS ONLY.
 use `detect_reply` instead. Detections generated by auto-detect

5.135.1.2 `detectionsArray_Count`

- (NSUInteger) `detectionsArray_Count` [read], [nonatomic], [assign]
 The number of items in `detectionsArray` without causing the array to be created.

5.135.1.3 `detectReply`

- ([DetectReply](#)*) `detectReply` [read], [write], [nonatomic], [strong]
 OPTIONAL: A dectect reply to be populated if the service is sending intermediate detection results back to the client.

5.135.1.4 `durations`

- ([BriarDurations](#)*) `durations` [read], [write], [nonatomic], [strong]
 Log the time needed to complete the request on the server.

5.135.1.5 enrollmentsArray

- (NSMutableArray<EnrollmentInfo*>*) enrollmentsArray [read], [write], [nonatomic], [strong]
OPTIONAL: Information about the enrollments.

5.135.1.6 enrollmentsArray_Count

- (NSUInteger) enrollmentsArray_Count [read], [nonatomic], [assign]
The number of items in enrollmentsArray without causing the array to be created.

5.135.1.7 errors

- (BriarErrors*) errors [read], [write], [nonatomic], [strong]

5.135.1.8 extractReply

- (ExtractReply*) extractReply [read], [write], [nonatomic], [strong]
OPTIONAL: An extract reply to be populated if the service is sending intermediate extraction results back to the client.

5.135.1.9 frameId

- (int64_t) frameId [read], [write], [nonatomic], [assign]
OPTIONAL: The id of the media frame associated with the detections.

5.135.1.10 hasDetectReply

- (BOOL) hasDetectReply [read], [write], [nonatomic], [assign]
Test to see if detectReply has been set.

5.135.1.11 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.135.1.12 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]
Test to see if errors has been set.

5.135.1.13 hasExtractReply

- (BOOL) hasExtractReply [read], [write], [nonatomic], [assign]
Test to see if extractReply has been set.

5.135.1.14 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]
Test to see if progress has been set.

5.135.1.15 hasTrackReply

- (BOOL) hasTrackReply [read], [write], [nonatomic], [assign]

Test to see if trackReply has been set.

5.135.1.16 progress

- (BriarProgress*) progress [read], [write], [nonatomic], [strong]

OPTIONAL: provides progress updates for progress bar display.

See example code for details

5.135.1.17 progressOnlyReply

- (BOOL) progressOnlyReply [read], [write], [nonatomic], [assign]

REQUIRED: set to true if this is a reply only providing a progress update to the API.

If progress_only_reply is set to True, nothing else in the reply needs to be populated

5.135.1.18 trackReply

- (TrackReply*) trackReply [read], [write], [nonatomic], [strong]

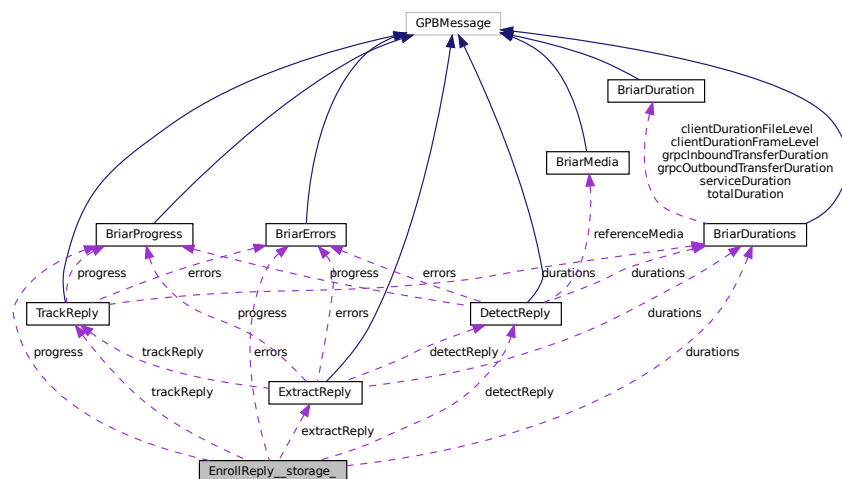
OPTIONAL: A track reply to be populated if the service is sending intermediate detection results back to the client.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.136 EnrollReply__storage_ Struct Reference

Collaboration diagram for EnrollReply__storage_:



Protected Attributes

- uint32_t _has_storage_ [1]
- NSMutableArray * detectionsArray
- DetectReply * detectReply
- BriarDurations * durations
- NSMutableArray * enrollmentsArray
- BriarErrors * errors
- ExtractReply * extractReply

- `int64_t frameId`
- `BriarProgress * progress`
- `TrackReply * trackReply`

5.136.1 Field Documentation

5.136.1.1 `_has_storage_`

- (`uint32_t _has_storage_[1]`) [protected]

5.136.1.2 `detectionsArray`

- (`NSMutableArray*`) `detectionsArray` [protected]

5.136.1.3 `detectReply`

- (`DetectReply*`) `detectReply` [protected]

5.136.1.4 `durations`

- (`BriarDurations*`) `durations` [protected]

5.136.1.5 `enrollmentsArray`

- (`NSMutableArray*`) `enrollmentsArray` [protected]

5.136.1.6 `errors`

- (`BriarErrors*`) `errors` [protected]

5.136.1.7 `extractReply`

- (`ExtractReply*`) `extractReply` [protected]

5.136.1.8 `frameId`

- (`int64_t`) `frameId` [protected]

5.136.1.9 `progress`

- (`BriarProgress*`) `progress` [protected]

5.136.1.10 `trackReply`

- (`TrackReply*`) `trackReply` [protected]

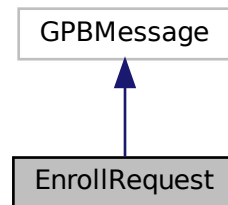
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

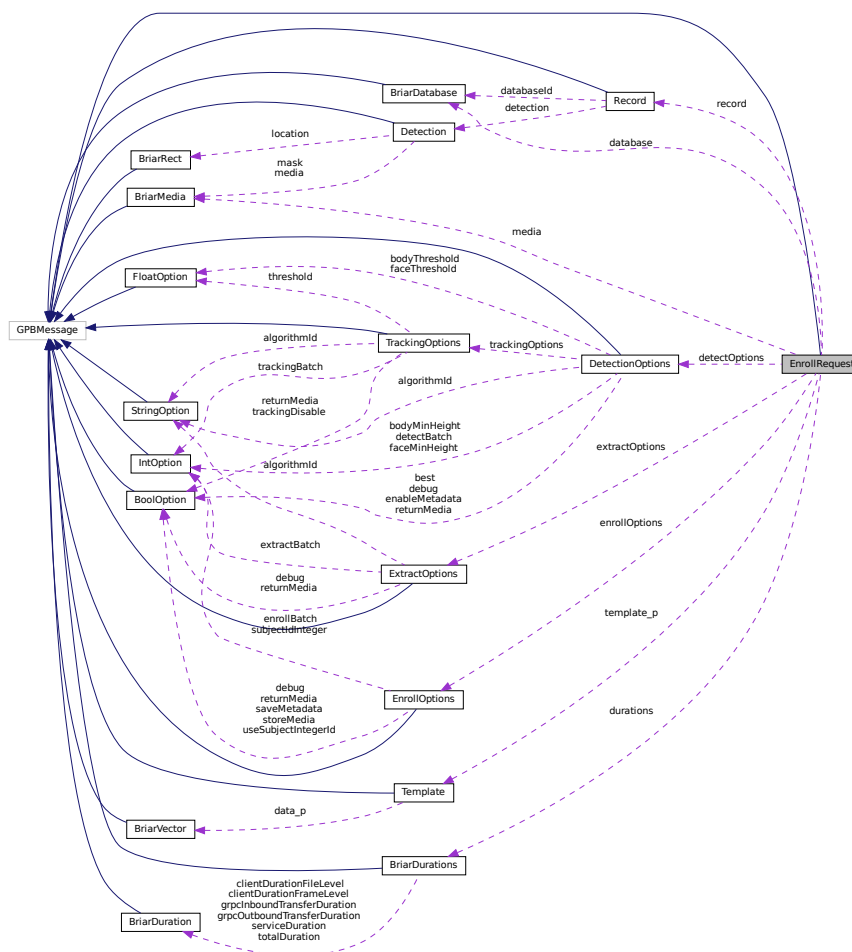
5.137 EnrollRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for EnrollRequest:



Collaboration diagram for EnrollRequest:



Properties

- [BriarDatabase](#) * [database](#)

- The database to enroll into.*

 - NSMutableArray< [Detection](#) * > * [detectionsArray](#)

OPTIONAL user specified detection to extract image from.
- NSInteger [detectionsArray_Count](#)

The number of items in `detectionsArray` without causing the array to be created.
- [DetectionOptions](#) * [detectOptions](#)

Hyperparameters to run the detection with.
- [BriarDurations](#) * [durations](#)

Log the time needed to complete the request on the server.
- enum EnrollFlags [enrollFlag](#)

How to run the enrollement.
- [EnrollOptions](#) * [enrollOptions](#)

How this is to be enrolled in the database.
- [ExtractOptions](#) * [extractOptions](#)

Hyperparameters to run the extraction with.
- int32_t [frame](#)

What frame of the video this is.
- BOOL [hasDatabase](#)

Test to see if database has been set.
- BOOL [hasDetectOptions](#)

Test to see if `detectOptions` has been set.
- BOOL [hasDurations](#)

Test to see if `durations` has been set.
- BOOL [hasEnrollOptions](#)

Test to see if `enrollOptions` has been set.
- BOOL [hasExtractOptions](#)

Test to see if `extractOptions` has been set.
- BOOL [hasMedia](#)

Test to see if `media` has been set.
- BOOL [hasRecord](#)

Test to see if `record` has been set.
- BOOL [hasTemplate_p](#)

Test to see if `template_p` has been set.
- [BriarMedia](#) * [media](#)

The image or video media to process.
- NSString * [mediald](#)

OPTIONAL unique id of the given input media.
- [Record](#) * [record](#)

DEPRICATED: records are not used at this time.
- int32_t [subjectIdInteger](#)

DEPRICATED: FOR LEGACY SYSTEMS ONLY.
- NSMutableArray< NSString * > * [subjectIdsArray](#)

OPTIONAL unique id of the given input subject within a media.
- NSInteger [subjectIdsArray_Count](#)

The number of items in `subjectIdsArray` without causing the array to be created.
- [Template](#) * [template_p](#)

OPTIONAL User specified template to enroll bypassing detect and extract.
- NSMutableArray< [Tracklet](#) * > * [tracksArray](#)

OPTIONAL Clients may provide a list of tracks from external algorithms that should be used instead of internal detection algorithms.
- NSInteger [tracksArray_Count](#)

The number of items in `tracksArray` without causing the array to be created.

5.137.1 Property Documentation

5.137.1.1 database

- ([BriarDatabase*](#)) database [read], [write], [nonatomic], [strong]

The database to enroll into.

5.137.1.2 detectionsArray

- (NSMutableArray<[Detection*>*\) detectionsArray \[read\], \[write\], \[nonatomic\], \[strong\]](#)

OPTIONAL user specified detection to extract image from.

5.137.1.3 detectionsArray_Count

- (NSInteger) detectionsArray_Count [read], [nonatomic], [assign]

The number of items in detectionsArray without causing the array to be created.

5.137.1.4 detectOptions

- ([DetectionOptions*](#)) detectOptions [read], [write], [nonatomic], [strong]

Hyperparameters to run the detection with.

5.137.1.5 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.137.1.6 enrollFlag

- (enum EnrollFlags) enrollFlag [read], [write], [nonatomic], [assign]

How to run the enrollement.

5.137.1.7 enrollOptions

- ([EnrollOptions*](#)) enrollOptions [read], [write], [nonatomic], [strong]

How this is to be enrolled in the database.

5.137.1.8 extractOptions

- ([ExtractOptions*](#)) extractOptions [read], [write], [nonatomic], [strong]

Hyperparameters to run the extraction with.

5.137.1.9 frame

- (int32_t) frame [read], [write], [nonatomic], [assign]

What frame of the video this is.

5.137.1.10 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

5.137.1.11 hasDetectOptions

- (BOOL) hasDetectOptions [read], [write], [nonatomic], [assign]
Test to see if detectOptions has been set.

5.137.1.12 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.137.1.13 hasEnrollOptions

- (BOOL) hasEnrollOptions [read], [write], [nonatomic], [assign]
Test to see if enrollOptions has been set.

5.137.1.14 hasExtractOptions

- (BOOL) hasExtractOptions [read], [write], [nonatomic], [assign]
Test to see if extractOptions has been set.

5.137.1.15 hasMedia

- (BOOL) hasMedia [read], [write], [nonatomic], [assign]
Test to see if media has been set.

5.137.1.16 hasRecord

- (BOOL) hasRecord [read], [write], [nonatomic], [assign]
Test to see if record has been set.

5.137.1.17 hasTemplate_p

- (BOOL) hasTemplate_p [read], [write], [nonatomic], [assign]
Test to see if template_p has been set.

5.137.1.18 media

- (BriarMedia*) media [read], [write], [nonatomic], [strong]
The image or video media to process.

5.137.1.19 mediaId

- (NSString*) mediaId [read], [write], [nonatomic], [copy]
OPTIONAL unique id of the given input media.
If not provide a unique id should be assigned by the service: UNKNOWN_#####.

5.137.1.20 record

- ([Record*](#)) record [read], [write], [nonatomic], [strong]
 DEPRICATED: records are not used at this time.

5.137.1.21 subjectIdInteger

- (int32_t) subjectIdInteger [read], [write], [nonatomic], [assign]
 DEPRICATED: FOR LEGACY SYSTEMS ONLY.
 Provides an integer-version of a subject ID

5.137.1.22 subjectIdsArray

- (NSMutableArray<NSString*>*) subjectIdsArray [read], [write], [nonatomic], [strong]
 OPTIONAL unique id of the given input subject within a media.
 If not provide a unique id should be assigned by the service: UNKNOWN_#####.

5.137.1.23 subjectIdsArray_Count

- (NSUInteger) subjectIdsArray_Count [read], [nonatomic], [assign]
 The number of items in subjectIdsArray without causing the array to be created.

5.137.1.24 template_p

- ([Template*](#)) template_p [read], [write], [nonatomic], [strong]
 OPTIONAL User specified template to enroll bypassing detect and extract.

5.137.1.25 tracksArray

- (NSMutableArray<[Tracklet*](#)>*) tracksArray [read], [write], [nonatomic], [strong]
 OPTIONAL Clients may provide a list of tracks from external algorithms that should be used instead of internal detection algorithms.

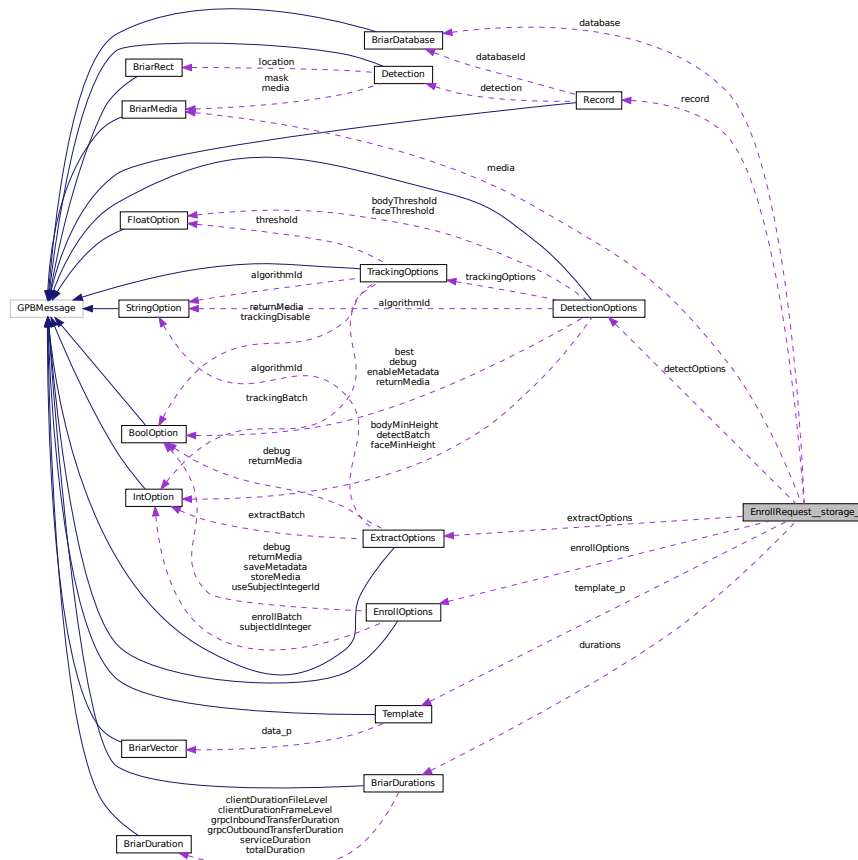
5.137.1.26 tracksArray_Count

- (NSUInteger) tracksArray_Count [read], [nonatomic], [assign]
 The number of items in tracksArray without causing the array to be created.
 The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.138 EnrollRequest__storage__ Struct Reference

Collaboration diagram for EnrollRequest__storage__:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `BriarDatabase * database`
- `NSMutableArray * detectionsArray`
- `DetectionOptions * detectOptions`
- `BriarDurations * durations`
- `EnrollFlags enrollFlag`
- `EnrollOptions * enrollOptions`
- `ExtractOptions * extractOptions`
- `int32_t frame`
- `BriarMedia * media`
- `NSString * mediaId`
- `Record * record`
- `int32_t subjectIdInteger`
- `NSMutableArray * subjectIdsArray`
- `Template * template_p`
- `NSMutableArray * tracksArray`

5.138.1 Field Documentation

5.138.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.138.1.2 `database`

- ([BriarDatabase*](#)) `database` [protected]

5.138.1.3 `detectionsArray`

- (NSMutableArray*) `detectionsArray` [protected]

5.138.1.4 `detectOptions`

- ([DetectionOptions*](#)) `detectOptions` [protected]

5.138.1.5 `durations`

- ([BriarDurations*](#)) `durations` [protected]

5.138.1.6 `enrollFlag`

- (EnrollFlags) `enrollFlag` [protected]

5.138.1.7 `enrollOptions`

- ([EnrollOptions*](#)) `enrollOptions` [protected]

5.138.1.8 `extractOptions`

- ([ExtractOptions*](#)) `extractOptions` [protected]

5.138.1.9 `frame`

- (int32_t) `frame` [protected]

5.138.1.10 `media`

- ([BriarMedia*](#)) `media` [protected]

5.138.1.11 `mediaId`

- (NSString*) `mediaId` [protected]

5.138.1.12 `record`

- ([Record*](#)) `record` [protected]

5.138.1.13 subjectIdInteger

- (int32_t) subjectIdInteger [protected]

5.138.1.14 subjectIdsArray

- (NSMutableArray*) subjectIdsArray [protected]

5.138.1.15 template_p

- (Template*) template_p [protected]

5.138.1.16 tracksArray

- (NSMutableArray*) tracksArray [protected]

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

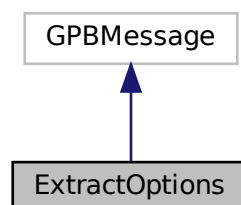
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

5.139 ExtractOptions Class Reference

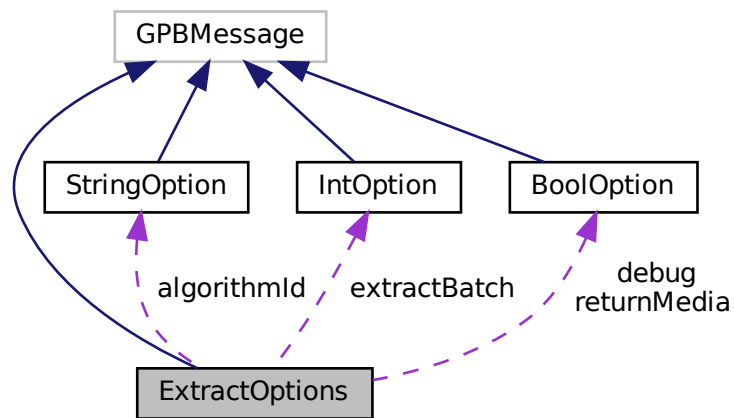
Options to extract a detected subject from an image.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for ExtractOptions:



Collaboration diagram for ExtractOptions:



Properties

- [StringOption](#) * [algorithmId](#)
- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
Used for passing algorithm specific options.
- NSUInteger [attributesArray_Count](#)
The number of items in attributesArray without causing the array to be created.
- [BoolOption](#) * [debug](#)
Save or print more info on the server side.
- [IntOption](#) * [extractBatch](#)
batch size for extraction processes
- ExtractFlags [flag](#)
Flags to allow for auto-detection.
- BOOL [hasAlgorithmId](#)
Test to see if algorithmId has been set.
- BOOL [hasDebug](#)
Test to see if debug has been set.
- BOOL [hasExtractBatch](#)
Test to see if extractBatch has been set.
- BOOL [hasReturnMedia](#)
Test to see if returnMedia has been set.
- BiometricModality [modality](#)
Specifies extraction for a specific modality (i.e.
- [BoolOption](#) * [returnMedia](#)
Should we return media (e.i.

5.139.1 Detailed Description

Options to extract a detected subject from an image.

5.139.2 Property Documentation

5.139.2.1 algorithmId

- ([StringOption*](#)) algorithmId [read], [write], [nonatomic], [strong]

5.139.2.2 attributesArray

- ([NSMutableArray<Attribute*>*](#)) attributesArray [read], [write], [nonatomic], [strong]

Used for passing algorithm specific options.

5.139.2.3 attributesArray_Count

- ([NSUInteger](#)) attributesArray_Count [read], [nonatomic], [assign]

The number of items in attributesArray without causing the array to be created.

5.139.2.4 debug

- ([BoolOption*](#)) debug [read], [write], [nonatomic], [strong]

Save or print more info on the server side.

5.139.2.5 extractBatch

- ([IntOption*](#)) extractBatch [read], [write], [nonatomic], [strong]

batch size for extraction processes

5.139.2.6 flag

- ([ExtractFlags](#)) flag [read], [write], [nonatomic], [assign]

Flags to allow for auto-detection.

5.139.2.7 hasAlgorithmId

- ([BOOL](#)) hasAlgorithmId [read], [write], [nonatomic], [assign]

Test to see if algorithmId has been set.

5.139.2.8 hasDebug

- ([BOOL](#)) hasDebug [read], [write], [nonatomic], [assign]

Test to see if debug has been set.

5.139.2.9 hasExtractBatch

- ([BOOL](#)) hasExtractBatch [read], [write], [nonatomic], [assign]

Test to see if extractBatch has been set.

5.139.2.10 hasReturnMedia

- (BOOL) hasReturnMedia [read], [write], [nonatomic], [assign]
Test to see if returnMedia has been set.

5.139.2.11 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]
Specifies extraction for a specific modality (i.e. face or whole body)

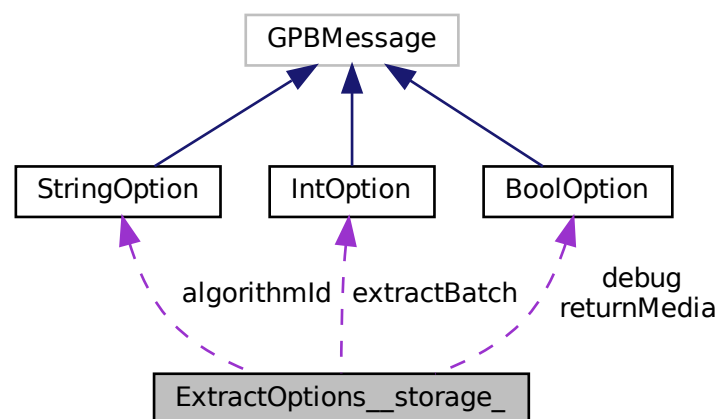
5.139.2.12 returnMedia

- (BoolOption*) returnMedia [read], [write], [nonatomic], [strong]
Should we return media (e.i. cropped images) related to the detections back to the client?
The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.140 ExtractOptions__storage_ Struct Reference

Collaboration diagram for ExtractOptions__storage_:



Protected Attributes

- uint32_t _has_storage_ [1]
- StringOption * algorithmId
- NSMutableArray * attributesArray
- BoolOption * debug
- IntOption * extractBatch
- ExtractFlags flag
- BiometricModality modality
- BoolOption * returnMedia

5.140.1 Field Documentation

5.140.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.140.1.2 `algorithmId`

- ([StringOption*](#)) `algorithmId` [protected]

5.140.1.3 `attributesArray`

- (NSMutableArray*) `attributesArray` [protected]

5.140.1.4 `debug`

- ([BoolOption*](#)) `debug` [protected]

5.140.1.5 `extractBatch`

- ([IntOption*](#)) `extractBatch` [protected]

5.140.1.6 `flag`

- (ExtractFlags) `flag` [protected]

5.140.1.7 `modality`

- (BiometricModality) `modality` [protected]

5.140.1.8 `returnMedia`

- ([BoolOption*](#)) `returnMedia` [protected]

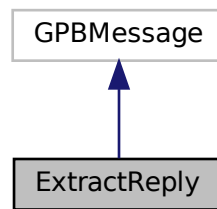
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m`

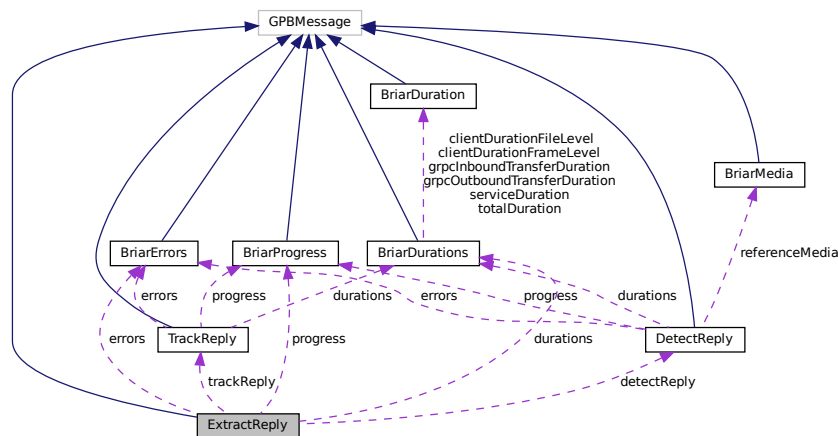
5.141 ExtractReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for ExtractReply:



Collaboration diagram for ExtractReply:



Properties

- **DetectReply** * **detectReply**

OPTIONAL: the detect reply associated with the extraction if the service is sending intermediate detection results back to the client.

- **BriarDurations** * **durations**

Log the time needed to complete the request on the server.

- **BriarErrors** * **errors**

- **int64_t** **frameId**

OPTIONAL: Id of the media frame associated with the extract.

- **BOOL** **hasDetectReply**

Test to see if detectReply has been set.

- **BOOL** **hasDurations**

Test to see if durations has been set.

- **BOOL** **hasErrors**

Test to see if errors has been set.

- **BOOL** **hasProgress**

Test to see if progress has been set.

- BOOL [hasTrackReply](#)
Test to see if `trackReply` has been set.
- enum BiometricModality [modality](#)
OPTIONAL: the modality of the templates extracted.
- [BriarProgress](#) * [progress](#)
OPTIONAL: provides progress updates for progress bar display.
- BOOL [progressOnlyReply](#)
REQUIRED: set to true if this is a reply only providing a progress update to the API.
- NSMutableArray< [Template](#) * > * [templatesArray](#)
REQUIRED: Extracted features.
- NSInteger [templatesArray_Count](#)
The number of items in `templatesArray` without causing the array to be created.
- [TrackReply](#) * [trackReply](#)
OPTIONAL: the track reply associated with the extraction if the service is sending intermediate detection results back to the client.

5.141.1 Property Documentation

5.141.1.1 detectReply

- ([DetectReply](#)*) `detectReply` [read], [write], [nonatomic], [strong]

OPTIONAL: the detect reply associated with the extraction if the service is sending intermediate detection results back to the client.

5.141.1.2 durations

- ([BriarDurations](#)*) `durations` [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.141.1.3 errors

- ([BriarErrors](#)*) `errors` [read], [write], [nonatomic], [strong]

5.141.1.4 frameId

- (int64_t) `frameId` [read], [write], [nonatomic], [assign]

OPTIONAL: Id of the media frame associated with the extract.

5.141.1.5 hasDetectReply

- (BOOL) `hasDetectReply` [read], [write], [nonatomic], [assign]

Test to see if `detectReply` has been set.

5.141.1.6 hasDurations

- (BOOL) `hasDurations` [read], [write], [nonatomic], [assign]

Test to see if `durations` has been set.

5.141.1.7 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

Test to see if errors has been set.

5.141.1.8 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]

Test to see if progress has been set.

5.141.1.9 hasTrackReply

- (BOOL) hasTrackReply [read], [write], [nonatomic], [assign]

Test to see if trackReply has been set.

5.141.1.10 modality

- (enum BiometricModality) modality [read], [write], [nonatomic], [assign]

OPTIONAL: the modality of the templates extracted.

5.141.1.11 progress

- (BriarProgress*) progress [read], [write], [nonatomic], [strong]

OPTIONAL: provides progress updates for progress bar display.

See example code for details

5.141.1.12 progressOnlyReply

- (BOOL) progressOnlyReply [read], [write], [nonatomic], [assign]

REQUIRED: set to true if this is a reply only providing a progress update to the API.

If progress_only_reply is set to True, nothing else in the reply needs to be populated

5.141.1.13 templatesArray

- (NSMutableArray<Template*>*) templatesArray [read], [write], [nonatomic], [strong]

REQUIRED: Extracted features.

5.141.1.14 templatesArray_Count

- (NSUInteger) templatesArray_Count [read], [nonatomic], [assign]

The number of items in templatesArray without causing the array to be created.

5.141.1.15 trackReply

- (TrackReply*) trackReply [read], [write], [nonatomic], [strong]

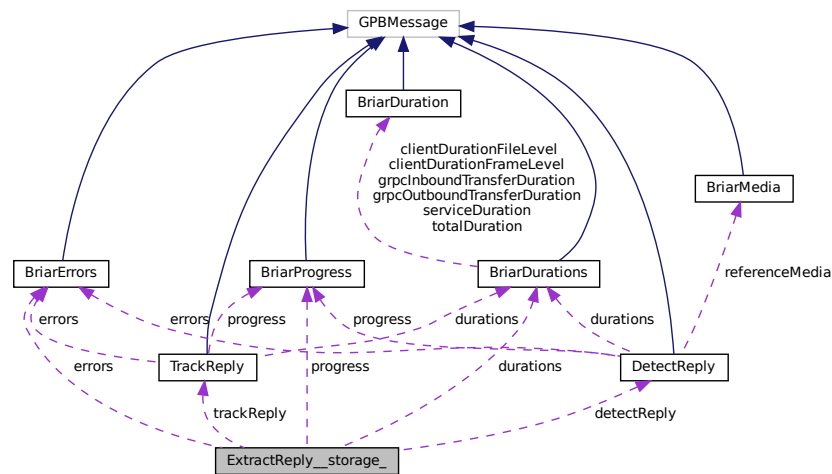
OPTIONAL: the track reply associated with the extraction if the service is sending intermediate detection results back to the client.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.142 ExtractReply__storage_ Struct Reference

Collaboration diagram for ExtractReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `DetectReply * detectReply`
- `BriarDurations * durations`
- `BriarErrors * errors`
- `int64_t frameId`
- `BiometricModality modality`
- `BriarProgress * progress`
- `NSMutableArray * templatesArray`
- `TrackReply * trackReply`

5.142.1 Field Documentation

5.142.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.142.1.2 detectReply

- (`DetectReply*`) `detectReply` [protected]

5.142.1.3 durations

- (`BriarDurations*`) `durations` [protected]

5.142.1.4 errors

- (`BriarErrors*`) `errors` [protected]

5.142.1.5 frameId

- (int64_t) frameId [protected]

5.142.1.6 modality

- (BiometricModality) modality [protected]

5.142.1.7 progress

- (BriarProgress*) progress [protected]

5.142.1.8 templatesArray

- (NSMutableArray*) templatesArray [protected]

5.142.1.9 trackReply

- (TrackReply*) trackReply [protected]

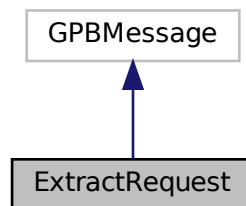
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

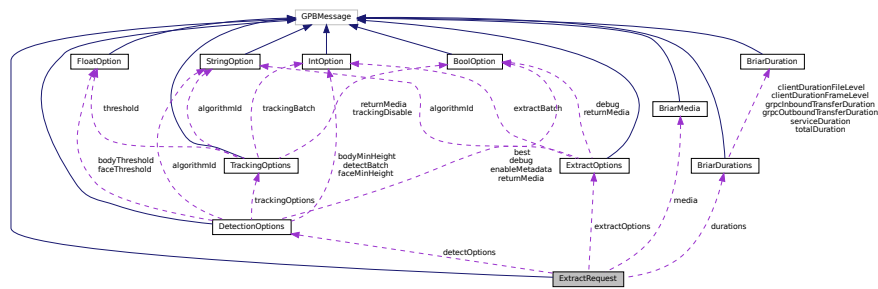
5.143 ExtractRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for ExtractRequest:



Collaboration diagram for ExtractRequest:



Properties

- `NSMutableArray<Detection*> * detectionsArray`
Detections to extract features from.
- `NSUInteger detectionsArray_Count`
The number of items in detectionsArray without causing the array to be created.
- `DetectionOptions * detectOptions`
Detection options.
- `BriarDurations * durations`
Log the time needed to complete the request on the server.
- `ExtractOptions * extractOptions`
Extraction options.
- `BOOL hasDetectOptions`
Test to see if detectOptions has been set.
- `BOOL hasDurations`
Test to see if durations has been set.
- `BOOL hasExtractOptions`
Test to see if extractOptions has been set.
- `BOOL hasMedia`
Test to see if media has been set.
- `BriarMedia * media`
Image to extract features from.

5.143.1 Property Documentation

5.143.1.1 detectionsArray

```
– (NSMutableArray<Detection*>*) detectionsArray [read], [write], [nonatomic], [strong]
```

Detections to extract features from.

5.143.1.2 detectionsArray_Count

```
– (NSUInteger) detectionsArray_Count [read], [nonatomic], [assign]
```

The number of items in detectionsArray without causing the array to be created.

5.143.1.3 detectOptions

- ([DetectionOptions*](#)) detectOptions [read], [write], [nonatomic], [strong]
[Detection](#) options.

5.143.1.4 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.143.1.5 extractOptions

- ([ExtractOptions*](#)) extractOptions [read], [write], [nonatomic], [strong]
Extraction options.

5.143.1.6 hasDetectOptions

- (BOOL) hasDetectOptions [read], [write], [nonatomic], [assign]
Test to see if detectOptions has been set.

5.143.1.7 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.143.1.8 hasExtractOptions

- (BOOL) hasExtractOptions [read], [write], [nonatomic], [assign]
Test to see if extractOptions has been set.

5.143.1.9 hasMedia

- (BOOL) hasMedia [read], [write], [nonatomic], [assign]
Test to see if media has been set.

5.143.1.10 media

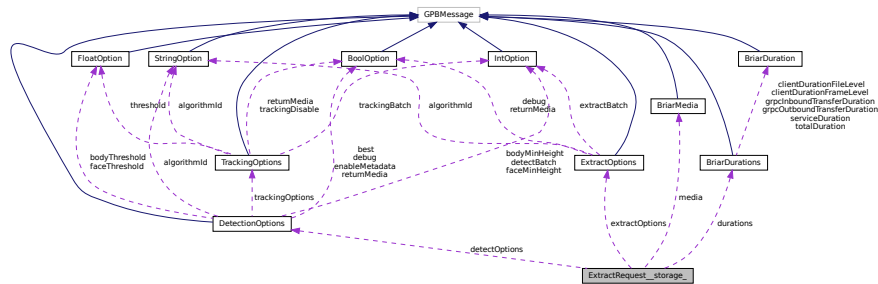
- ([BriarMedia*](#)) media [read], [write], [nonatomic], [strong]
Image to extract features from.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.144 ExtractRequest__storage__ Struct Reference

Collaboration diagram for ExtractRequest__storage__:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `NSMutableArray * detectionsArray`
- `DetectionOptions * detectOptions`
- `BriarDurations * durations`
- `ExtractOptions * extractOptions`
- `BriarMedia * media`

5.144.1 Field Documentation

5.144.1.1 _has_storage__

```
- (uint32_t _has_storage_[1]) [protected]
```

5.144.1.2 detectionsArray

```
- (NSMutableArray*) detectionsArray [protected]
```

5.144.1.3 detectOptions

```
- (DetectionOptions*) detectOptions [protected]
```

5.144.1.4 durations

```
- (BriarDurations*) durations [protected]
```

5.144.1.5 extractOptions

```
- (ExtractOptions*) extractOptions [protected]
```

5.144.1.6 media

```
- (BriarMedia*) media [protected]
```

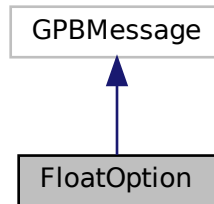
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

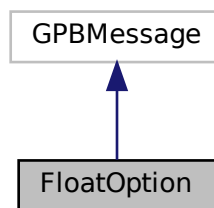
5.145 FloatOption Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for FloatOption:



Collaboration diagram for FloatOption:



Properties

- BOOL [overrideDefault](#)
- float [value](#)

5.145.1 Property Documentation

5.145.1.1 overrideDefault

```
- (BOOL) overrideDefault [read], [write], [nonatomic], [assign]
```

5.145.1.2 value

```
- (float) value [read], [write], [nonatomic], [assign]
```

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.146 FloatOption__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- float [value](#)

5.146.1 Field Documentation

5.146.1.1 [_has_storage_](#)

- (uint32_t [_has_storage_](#)[1]) [protected]

5.146.1.2 [value](#)

- (float) [value](#) [protected]

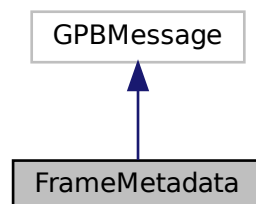
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

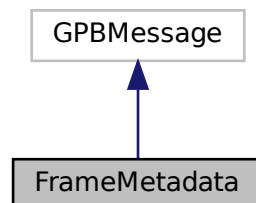
5.147 FrameMetadata Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for FrameMetadata:



Collaboration diagram for FrameMetadata:



Properties

- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
- NSInteger [attributesArray_Count](#)

The number of items in `attributesArray` without causing the array to be created.

5.147.1 Property Documentation

5.147.1.1 `attributesArray`

```
- (NSMutableArray<Attribute*>*) attributesArray [read], [write], [nonatomic], [strong]
```

5.147.1.2 `attributesArray_Count`

```
- (NSInteger) attributesArray_Count [read], [nonatomic], [assign]
```

The number of items in `attributesArray` without causing the array to be created.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h`

5.148 `FrameMetadata__storage__ Struct` Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [attributesArray](#)

5.148.1 Field Documentation

5.148.1.1 `_has_storage_`

```
- (uint32_t _has_storage_[1]) [protected]
```

5.148.1.2 `attributesArray`

```
- (NSMutableArray*) attributesArray [protected]
```

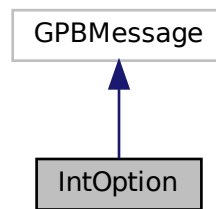
The documentation for this struct was generated from the following file:

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m`

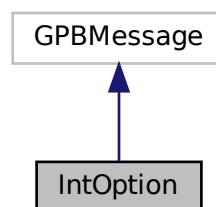
5.149 `IntOption` Class Reference

```
#import <Briar.pbobjc.h>
```


Inheritance diagram for IntOption:



Collaboration diagram for IntOption:



Properties

- `BOOL` [overrideDefault](#)
- `int64_t` [value](#)

5.149.1 Property Documentation

5.149.1.1 `overrideDefault`

- (`BOOL`) `overrideDefault` [`read`], [`write`], [`nonatomic`], [`assign`]

5.149.1.2 `value`

- (`int64_t`) `value` [`read`], [`write`], [`nonatomic`], [`assign`]

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h`

5.150 IntOption__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- int64_t [value](#)

5.150.1 Field Documentation

5.150.1.1 [_has_storage_](#)

- (uint32_t [_has_storage_](#)[1]) [protected]

5.150.1.2 [value](#)

- (int64_t) [value](#) [protected]

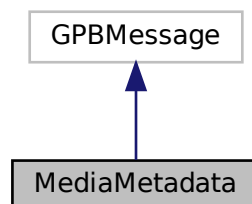
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

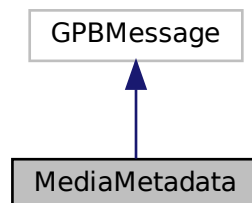
5.151 MediaMetadata Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for MediaMetadata:



Collaboration diagram for MediaMetadata:



Properties

- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
metadata describing the full media object
- NSUInteger [attributesArray_Count](#)
The number of items in attributesArray without causing the array to be created.
- NSMutableArray< [FrameMetadata](#) * > * [frameMetadataArray](#)
metadata objects associated at a frame by frame level
- NSUInteger [frameMetadataArray_Count](#)
The number of items in frameMetadataArray without causing the array to be created.

5.151.1 Property Documentation

5.151.1.1 attributesArray

- (NSMutableArray<[Attribute](#)*>*) attributesArray [read], [write], [nonatomic], [strong]
metadata describing the full media object

5.151.1.2 attributesArray_Count

- (NSUInteger) attributesArray_Count [read], [nonatomic], [assign]
The number of items in attributesArray without causing the array to be created.

5.151.1.3 frameMetadataArray

- (NSMutableArray<[FrameMetadata](#)*>*) frameMetadataArray [read], [write], [nonatomic], [strong]
metadata objects associated at a frame by frame level

5.151.1.4 frameMetadataArray_Count

- (NSUInteger) frameMetadataArray_Count [read], [nonatomic], [assign]
The number of items in frameMetadataArray without causing the array to be created.
The documentation for this class was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.152 MediaMetadata__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [attributesArray](#)
- NSMutableArray * [frameMetadataArray](#)

5.152.1 Field Documentation

5.152.1.1 _has_storage_

- (uint32_t) _has_storage_[1] [protected]

5.152.1.2 attributesArray

```
- (NSMutableArray*) attributesArray [protected]
```

5.152.1.3 frameMetadataArray

```
- (NSMutableArray*) frameMetadataArray [protected]
```

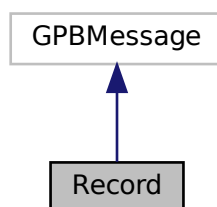
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

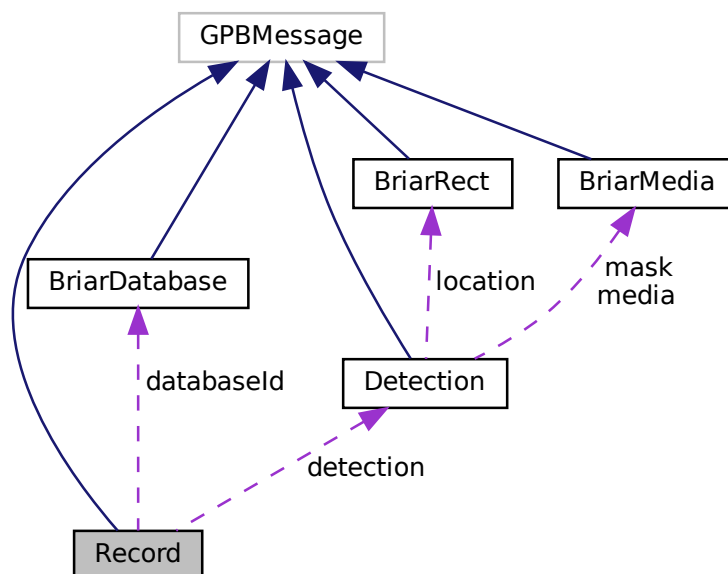
5.153 Record Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for Record:



Collaboration diagram for Record:



Properties

- NSString * [algorithm](#)
OPTIONAL: Algorithm used to create the subject's templates.
- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
OPTIONAL: Additional data about the record.
- NSUInteger [attributesArray_Count](#)
The number of items in `attributesArray` without causing the array to be created.
- [BriarDatabase](#) * [databaseld](#)
DEPRICATED, FOR LEGACY SYSTEMS ONLY Records are used to connect related information about media or a subject that is stored in a database.
- [Detection](#) * [detection](#)
- NSString * [entryId](#)
REQUIRED: database entry associated with this record.
- EntryType [entryType](#)
REQUIRED: Type of entry, either 'subject' or 'media'.
- BOOL [hasDatabaseld](#)
Test to see if `databaseId` has been set.
- BOOL [hasDetection](#)
Test to see if `detection` has been set.
- NSString * [mediaId](#)
- NSMutableDictionary< NSString *, [BriarMedia](#) * > * [mediaPreviews](#)
OPTIONAL: A small set of images representing the raw media.
- NSUInteger [mediaPreviews_Count](#)
The number of items in `mediaPreviews` without causing the array to be created.
- BiometricModality [modality](#)
- NSString * [name](#)
OPTIONAL: Name of the subject.
- NSString * [notes](#)
OPTIONAL: Additional notes about the subject or the media.
- NSString * [source](#)
- NSMutableArray< NSString * > * [sourceIdArray](#)
RECOMENDED: A list of source ids associated with this entry.
- NSUInteger [sourceIdArray_Count](#)
The number of items in `sourceIdArray` without causing the array to be created.
- NSString * [subjectId](#)
OPTIONAL: ID of subject this record belong.
- NSMutableDictionary< NSString *, [BriarMedia](#) * > * [subjectPreviews](#)
OPTIONAL: small previews that could be displayed for GUIs or manual verification of a subject.
- NSUInteger [subjectPreviews_Count](#)
The number of items in `subjectPreviews` without causing the array to be created.
- NSString * [templates](#)
OPTIONAL: A list of template ids associated with this entry.
- NSString * [tracklets](#)
OPTIONAL: A list of `tracklet_ids` associated with this entry.

5.153.1 Property Documentation

5.153.1.1 algorithm

- (NSString*) algorithm [read], [write], [nonatomic], [copy]

OPTIONAL: Algorithm used to create the subject's templates.

5.153.1.2 attributesArray

- (NSMutableArray<Attribute*>*) attributesArray [read], [write], [nonatomic], [strong]

OPTIONAL: Additional data about the record.

5.153.1.3 attributesArray_Count

- (NSUInteger) attributesArray_Count [read], [nonatomic], [assign]

The number of items in attributesArray without causing the array to be created.

5.153.1.4 databaseId

- (BriarDatabase*) databaseId [read], [write], [nonatomic], [strong]

DEPRICATED, FOR LEGACY SYSTEMS ONLY Records are used to connect related information about media or a subject that is stored in a database.

Its structure may change in future API releases. This object is intened to hold information that is generally useful to humans. The intension is that it will allow a GUI or similar tool to display basic inforamtion about the data base entry. For example, it would link an enrollment for a subject back to a passport like photo, name and other information. Ideally it should also support linking back to the source media, detection and tracking info, and other data that could be used to better understand how the media was processed. Example: display source video with overlaid bounding boxes.

5.153.1.5 detection

- (Detection*) detection [read], [write], [nonatomic], [strong]

5.153.1.6 entryId

- (NSString*) entryId [read], [write], [nonatomic], [copy]

REQUIRED: database entry associated with this record.

5.153.1.7 entryType

- (EntryType) entryType [read], [write], [nonatomic], [assign]

REQUIRED: Type of entry, either 'subject' or 'media'.

5.153.1.8 hasDatabaseId

- (BOOL) hasDatabaseId [read], [write], [nonatomic], [assign]

Test to see if databaseId has been set.

5.153.1.9 hasDetection

- (BOOL) hasDetection [read], [write], [nonatomic], [assign]

Test to see if detection has been set.

5.153.1.10 mediaId

- (NSString*) mediaId [read], [write], [nonatomic], [copy]

5.153.1.11 mediaPreviews

- (NSMutableDictionary<NSString*, BriarMedia*>*) mediaPreviews [read], [write], [nonatomic], [strong]

OPTIONAL: A small set of images representing the raw media.

Example: a few low resolution frames.

5.153.1.12 mediaPreviews_Count

- (NSInteger) mediaPreviews_Count [read], [nonatomic], [assign]

The number of items in mediaPreviews without causing the array to be created.

5.153.1.13 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]

5.153.1.14 name

- (NSString*) name [read], [write], [nonatomic], [copy]

OPTIONAL: Name of the subject.

Subject may be unknown.

5.153.1.15 notes

- (NSString*) notes [read], [write], [nonatomic], [copy]

OPTIONAL: Additional notes about the subject or the media.

5.153.1.16 source

- (NSString*) source [read], [write], [nonatomic], [copy]

5.153.1.17 sourceIdArray

- (NSMutableArray<NSString*>*) sourceIdArray [read], [write], [nonatomic], [strong]

RECOMENDED: A list of source ids associated with this entry.

5.153.1.18 sourceIdArray_Count

- (NSInteger) sourceIdArray_Count [read], [nonatomic], [assign]

The number of items in sourceIdArray without causing the array to be created.

5.153.1.19 subjectId

- (NSString*) subjectId [read], [write], [nonatomic], [copy]

OPTIONAL: ID of subject this record belong.

Leave blank if unknown.

5.153.1.20 subjectPreviews

```
- (NSMutableDictionary<NSString*, BriarMedia*>*) subjectPreviews [read], [write], [nonatomic], [strong]
```

OPTIONAL: small previews that could be displayed for GUIs or manual verification of a subject.

Example: similar to mugshots or passport photos.

5.153.1.21 subjectPreviews_Count

```
- (NSUInteger) subjectPreviews_Count [read], [nonatomic], [assign]
```

The number of items in `subjectPreviews` without causing the array to be created.

5.153.1.22 templates

```
- (NSString*) templates [read], [write], [nonatomic], [copy]
```

OPTIONAL: A list of template ids associated with this entry.

5.153.1.23 tracklets

```
- (NSString*) tracklets [read], [write], [nonatomic], [copy]
```

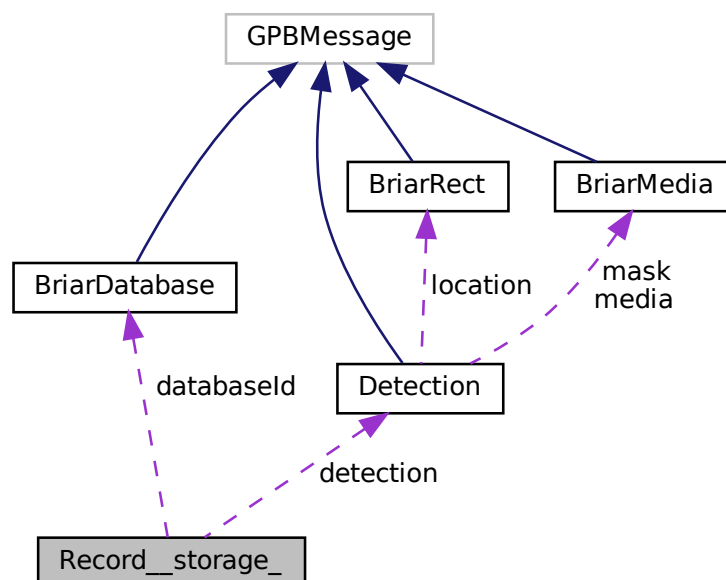
OPTIONAL: A list of tracklet_ids associated with this entry.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.154 Record__storage_ Struct Reference

Collaboration diagram for `Record__storage_`:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `NSString * algorithm`
- `NSMutableArray * attributesArray`
- `BriarDatabase * databaseId`
- `Detection * detection`
- `NSString * entryId`
- `EntryType entryType`
- `NSString * mediaId`
- `NSMutableDictionary * mediaPreviews`
- `BiometricModality modality`
- `NSString * name`
- `NSString * notes`
- `NSString * source`
- `NSMutableArray * sourceIdArray`
- `NSString * subjectId`
- `NSMutableDictionary * subjectPreviews`
- `NSString * templates`
- `NSString * tracklets`

5.154.1 Field Documentation

5.154.1.1 `_has_storage_`

- (`uint32_t _has_storage_[1]`) [protected]

5.154.1.2 `algorithm`

- (`NSString*`) `algorithm` [protected]

5.154.1.3 `attributesArray`

- (`NSMutableArray*`) `attributesArray` [protected]

5.154.1.4 `databaseId`

- (`BriarDatabase*`) `databaseId` [protected]

5.154.1.5 `detection`

- (`Detection*`) `detection` [protected]

5.154.1.6 `entryId`

- (`NSString*`) `entryId` [protected]

5.154.1.7 `entryType`

- (`EntryType`) `entryType` [protected]

5.154.1.8 mediaId

- (NSString*) mediaId [protected]

5.154.1.9 mediaPreviews

- (NSMutableDictionary*) mediaPreviews [protected]

5.154.1.10 modality

- (BiometricModality) modality [protected]

5.154.1.11 name

- (NSString*) name [protected]

5.154.1.12 notes

- (NSString*) notes [protected]

5.154.1.13 source

- (NSString*) source [protected]

5.154.1.14 sourceIdArray

- (NSMutableArray*) sourceIdArray [protected]

5.154.1.15 subjectId

- (NSString*) subjectId [protected]

5.154.1.16 subjectPreviews

- (NSMutableDictionary*) subjectPreviews [protected]

5.154.1.17 templates

- (NSString*) templates [protected]

5.154.1.18 tracklets

- (NSString*) tracklets [protected]

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

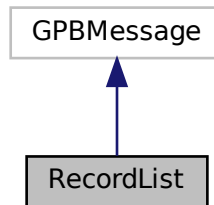
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.155 RecordList Class Reference

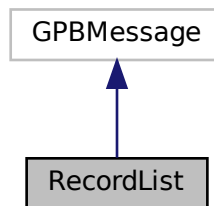
DEPRICATED: records are not used at this time.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for RecordList:



Collaboration diagram for RecordList:



Properties

- NSMutableArray< [Record](#)* > * [recordsArray](#)
List of records.
- NSUInteger [recordsArray_Count](#)
The number of items in [recordsArray](#) without causing the array to be created.

5.155.1 Detailed Description

DEPRICATED: records are not used at this time.

5.155.2 Property Documentation

5.155.2.1 recordsArray

```
- (NSMutableArray<Record*>*) recordsArray [read], [write], [nonatomic], [strong]
```

List of records.

5.155.2.2 recordsArray_Count

```
- (NSUInteger) recordsArray_Count [read], [nonatomic], [assign]
```

The number of items in `recordsArray` without causing the array to be created.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.156 RecordList__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [recordsArray](#)

5.156.1 Field Documentation

5.156.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.156.1.2 recordsArray

```
- (NSMutableArray*) recordsArray [protected]
```

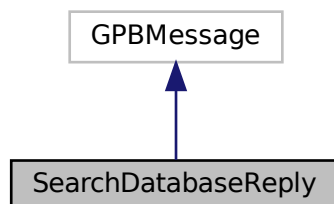
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

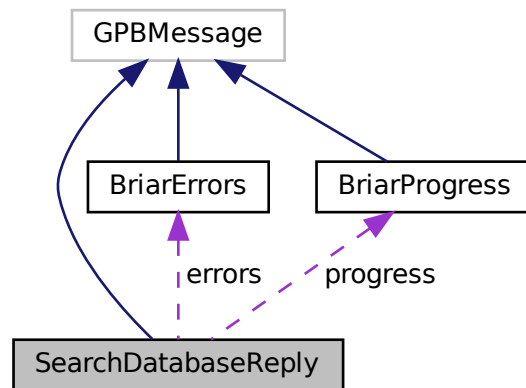
5.157 SearchDatabaseReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for SearchDatabaseReply:



Collaboration diagram for SearchDatabaseReply:



Properties

- NSMutableArray< BriarDurations * > * durationsArray
Log the time needed to complete the request on the server.
- NSUInteger durationsArray_Count
The number of items in durationsArray without causing the array to be created.
- BriarErrors * errors
- BOOL hasErrors
Test to see if errors has been set.
- BOOL hasProgress
Test to see if progress has been set.
- BriarProgress * progress
OPTIONAL: provides progress updates for progress bar display.
- NSMutableArray< SearchMatchList * > * similaritiesArray
REQUIRED: Return: List of similarities in scored order.
- NSUInteger similaritiesArray_Count
The number of items in similaritiesArray without causing the array to be created.

5.157.1 Property Documentation

5.157.1.1 durationsArray

- (NSMutableArray<BriarDurations*>*) durationsArray [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.157.1.2 durationsArray_Count

- (NSUInteger) durationsArray_Count [read], [nonatomic], [assign]
The number of items in durationsArray without causing the array to be created.

5.157.1.3 errors

- ([BriarErrors*](#)) errors [read], [write], [nonatomic], [strong]

5.157.1.4 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

Test to see if errors has been set.

5.157.1.5 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]

Test to see if progress has been set.

5.157.1.6 progress

- ([BriarProgress*](#)) progress [read], [write], [nonatomic], [strong]

OPTIONAL: provides progress updates for progress bar display.

See example code for details

5.157.1.7 similaritiesArray

- (NSMutableArray<[SearchMatchList*](#)>*) similaritiesArray [read], [write], [nonatomic], [strong]

REQUIRED: Return: List of similarities in scored order.

5.157.1.8 similaritiesArray_Count

- (NSUInteger) similaritiesArray_Count [read], [nonatomic], [assign]

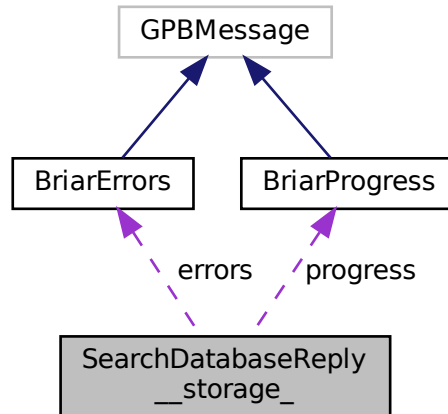
The number of items in `similaritiesArray` without causing the array to be created.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h`

5.158 SearchDatabaseReply__storage_ Struct Reference

Collaboration diagram for SearchDatabaseReply__storage_:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `NSMutableArray * durationsArray`
- `BriarErrors * errors`
- `BriarProgress * progress`
- `NSMutableArray * similaritiesArray`

5.158.1 Field Documentation

5.158.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.158.1.2 durationsArray

```
- (NSMutableArray*) durationsArray [protected]
```

5.158.1.3 errors

```
- (BriarErrors*) errors [protected]
```

5.158.1.4 progress

```
- (BriarProgress*) progress [protected]
```

5.158.1.5 similaritiesArray

```
– (NSMutableArray*) similaritiesArray [protected]
```

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

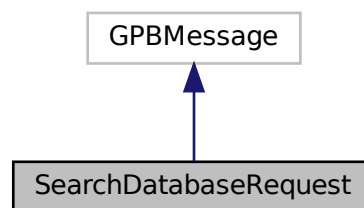
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

5.159 SearchDatabaseRequest Class Reference

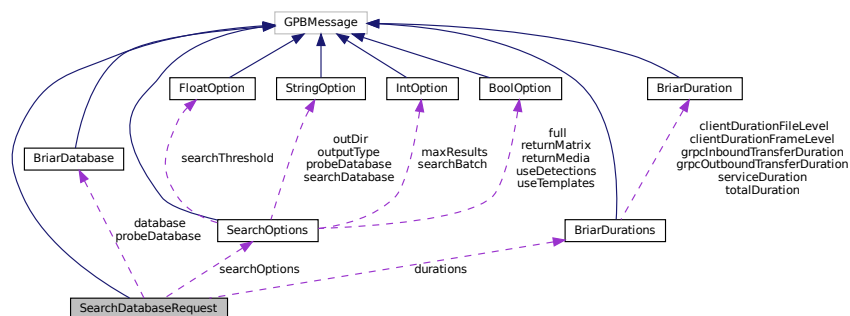
This is a search that takes a gallery database and a probe database, and searches all probes against the gallery.

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for SearchDatabaseRequest:



Collaboration diagram for SearchDatabaseRequest:



Properties

- **BriarDatabase** * `database`
REQUIRED: Database to search.
- **BriarDurations** * `durations`
Log the time needed to complete the request on the server.
- **BOOL** `hasDatabase`
Test to see if database has been set.
- **BOOL** `hasDurations`
Test to see if durations has been set.
- **BOOL** `hasProbeDatabase`
Test to see if probeDatabase has been set.

- **BOOL** [hasSearchOptions](#)
Test to see if `searchOptions` has been set.
- **BriarDatabase *** [probeDatabase](#)
REQUIRED: probe database to use as probe entries, instead of a [BriarMedia](#).
- **NSMutableArray< NSString * > *** [probeEntryIdsArray](#)
OPTIONAL: the list of probe database entries to search.
- **NSUInteger** [probeEntryIdsArray_Count](#)
The number of items in `probeEntryIdsArray` without causing the array to be created.
- **SearchOptions *** [searchOptions](#)
search options from the API call

5.159.1 Detailed Description

This is a search that takes a gallery database and a probe database, and searches all probes against the gallery.

5.159.2 Property Documentation

5.159.2.1 database

– ([BriarDatabase*](#)) `database` [read], [write], [nonatomic], [strong]
REQUIRED: Database to search.

5.159.2.2 durations

– ([BriarDurations*](#)) `durations` [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.159.2.3 hasDatabase

– (BOOL) `hasDatabase` [read], [write], [nonatomic], [assign]
Test to see if database has been set.

5.159.2.4 hasDurations

– (BOOL) `hasDurations` [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.159.2.5 hasProbeDatabase

– (BOOL) `hasProbeDatabase` [read], [write], [nonatomic], [assign]
Test to see if probeDatabase has been set.

5.159.2.6 hasSearchOptions

– (BOOL) `hasSearchOptions` [read], [write], [nonatomic], [assign]
Test to see if searchOptions has been set.

5.159.2.7 probeDatabase

- ([BriarDatabase*](#)) probeDatabase [read], [write], [nonatomic], [strong]

REQUIRED: probe database to use as probe entries, instead of a [BriarMedia](#).

5.159.2.8 probeEntryIdsArray

- (NSMutableArray<NSString*>*) probeEntryIdsArray [read], [write], [nonatomic], [strong]

OPTIONAL: the list of probe database entries to search.

If empty search the entire probe database.

5.159.2.9 probeEntryIdsArray_Count

- (NSUInteger) probeEntryIdsArray_Count [read], [nonatomic], [assign]

The number of items in probeEntryIdsArray without causing the array to be created.

5.159.2.10 searchOptions

- ([SearchOptions*](#)) searchOptions [read], [write], [nonatomic], [strong]

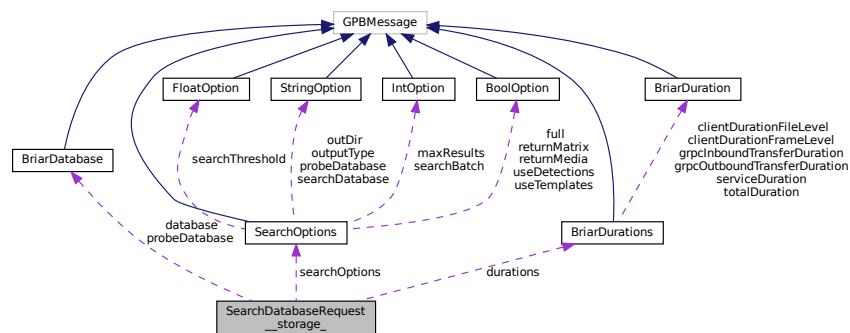
search options from the API call

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.160 SearchDatabaseRequest__storage__ Struct Reference

Collaboration diagram for SearchDatabaseRequest__storage__:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- [BriarDatabase](#) * [database](#)
- [BriarDurations](#) * [durations](#)
- [BriarDatabase](#) * [probeDatabase](#)
- NSMutableArray * [probeEntryIdsArray](#)
- [SearchOptions](#) * [searchOptions](#)

5.160.1 Field Documentation

5.160.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.160.1.2 `database`

- ([BriarDatabase*](#)) `database` [protected]

5.160.1.3 `durations`

- ([BriarDurations*](#)) `durations` [protected]

5.160.1.4 `probeDatabase`

- ([BriarDatabase*](#)) `probeDatabase` [protected]

5.160.1.5 `probeEntryIdsArray`

- (NSMutableArray*) `probeEntryIdsArray` [protected]

5.160.1.6 `searchOptions`

- ([SearchOptions*](#)) `searchOptions` [protected]

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

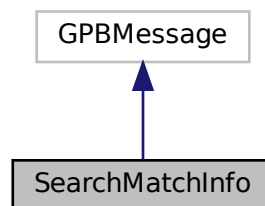
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.m](#)

5.161 SearchMatchInfo Class Reference

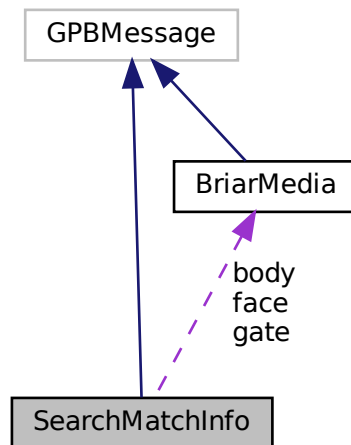
Information about a match.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for SearchMatchInfo:



Collaboration diagram for SearchMatchInfo:



Properties

- [BriarMedia](#) * [body](#)
OPTIONAL: Image of Body.
- NSString * [entryIdGallery](#)
OPTIONAL: the database entry id of the gallery.
- NSString * [entryIdProbe](#)
OPTIONAL: the database entry id of the probe.
- [BriarMedia](#) * [face](#)
OPTIONAL: Image of face.
- [BriarMedia](#) * [gate](#)
OPTIONAL: Image(s) of gait.
- BOOL [hasBody](#)
*Test to see if *body* has been set.*
- BOOL [hasFace](#)
*Test to see if *face* has been set.*
- BOOL [hasGate](#)
*Test to see if *gate* has been set.*
- int32_t [integerSubjectIdGallery](#)
DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.
- NSString * [mediaId](#)
OPTIONAL: ID of media that probe matched to.
- float [score](#)
Match Similarity.
- NSString * [subjectIdGallery](#)
REQUIRED: subject ID of matched gallery subject.
- NSString * [subjectIdProbe](#)
DEPRECATED AND OPTIONAL: subject ID of probe image (if known, since usually probes do not have known subjects)
- NSString * [subjectName](#)

Name of subject.

- float [theoreticalMax](#)

OPTIONAL: the maximum score the algorithm can return.

- float [theoreticalMin](#)

OPTIONAL: the minimum score that the algorithm can return.

- BOOL [usesIntegerSubjectIdGallery](#)

DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.

5.161.1 Detailed Description

Information about a match.

5.161.2 Property Documentation

5.161.2.1 body

- ([BriarMedia*](#)) body [read], [write], [nonatomic], [strong]

OPTIONAL: Image of Body.

5.161.2.2 entryIdGallery

- (NSString*) entryIdGallery [read], [write], [nonatomic], [copy]

OPTIONAL: the database entry id of the gallery.

5.161.2.3 entryIdProbe

- (NSString*) entryIdProbe [read], [write], [nonatomic], [copy]

OPTIONAL: the database entry id of the probe.

5.161.2.4 face

- ([BriarMedia*](#)) face [read], [write], [nonatomic], [strong]

OPTIONAL: Image of face.

5.161.2.5 gate

- ([BriarMedia*](#)) gate [read], [write], [nonatomic], [strong]

OPTIONAL: Image(s) of gait.

5.161.2.6 hasBody

- (BOOL) hasBody [read], [write], [nonatomic], [assign]

Test to see if body has been set.

5.161.2.7 hasFace

- (BOOL) hasFace [read], [write], [nonatomic], [assign]

Test to see if face has been set.

5.161.2.8 hasGate

- (BOOL) hasGate [read], [write], [nonatomic], [assign]

Test to see if gate has been set.

5.161.2.9 integerSubjectIdGallery

- (int32_t) integerSubjectIdGallery [read], [write], [nonatomic], [assign]

DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.

5.161.2.10 mediaId

- (NSString*) mediaId [read], [write], [nonatomic], [copy]

OPTIONAL: ID of media that probe matched to.

5.161.2.11 score

- (float) score [read], [write], [nonatomic], [assign]

Match Similarity.

5.161.2.12 subjectIdGallery

- (NSString*) subjectIdGallery [read], [write], [nonatomic], [copy]

REQUIRED: subject ID of matched gallery subject.

5.161.2.13 subjectIdProbe

- (NSString*) subjectIdProbe [read], [write], [nonatomic], [copy]

DEPRECATED AND OPTIONAL: subject ID of probe image (if known, since usually probes do not have known subjects)

5.161.2.14 subjectName

- (NSString*) subjectName [read], [write], [nonatomic], [copy]

Name of subject.

5.161.2.15 theoreticalMax

- (float) theoreticalMax [read], [write], [nonatomic], [assign]

OPTIONAL: the maximum score the algorithm can return.

5.161.2.16 theoreticalMin

- (float) theoreticalMin [read], [write], [nonatomic], [assign]

OPTIONAL: the minimum score that the algorithm can return.

5.161.2.17 usesIntegerSubjectIdGallery

- (BOOL) usesIntegerSubjectIdGallery [read], [write], [nonatomic], [assign]

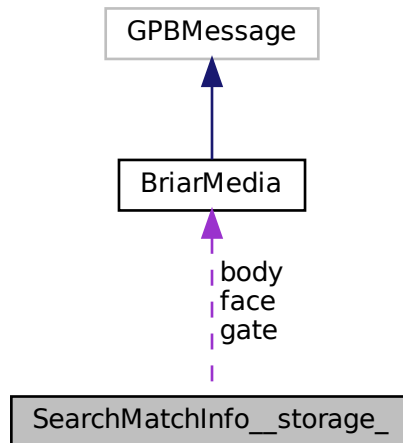
DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.162 SearchMatchInfo__storage_ Struct Reference

Collaboration diagram for SearchMatchInfo__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- [BriarMedia](#) * [body](#)
- NSString * [entryIdGallery](#)
- NSString * [entryIdProbe](#)
- [BriarMedia](#) * [face](#)
- [BriarMedia](#) * [gate](#)
- int32_t [integerSubjectIdGallery](#)
- NSString * [mediaId](#)
- float [score](#)
- NSString * [subjectIdGallery](#)
- NSString * [subjectIdProbe](#)
- NSString * [subjectName](#)
- float [theoreticalMax](#)
- float [theoreticalMin](#)

5.162.1 Field Documentation

5.162.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.162.1.2 body

- ([BriarMedia*](#)) body [protected]

5.162.1.3 entryIdGallery

- (NSString*) entryIdGallery [protected]

5.162.1.4 entryIdProbe

- (NSString*) entryIdProbe [protected]

5.162.1.5 face

- ([BriarMedia*](#)) face [protected]

5.162.1.6 gate

- ([BriarMedia*](#)) gate [protected]

5.162.1.7 integerSubjectIdGallery

- (int32_t) integerSubjectIdGallery [protected]

5.162.1.8 mediaId

- (NSString*) mediaId [protected]

5.162.1.9 score

- (float) score [protected]

5.162.1.10 subjectIdGallery

- (NSString*) subjectIdGallery [protected]

5.162.1.11 subjectIdProbe

- (NSString*) subjectIdProbe [protected]

5.162.1.12 subjectName

- (NSString*) subjectName [protected]

5.162.1.13 theoreticalMax

- (float) theoreticalMax [protected]

5.162.1.14 theoreticalMin

– (float) theoreticalMin [protected]

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

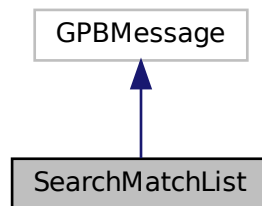
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.163 SearchMatchList Class Reference

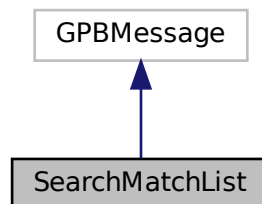
List of matches.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for SearchMatchList:



Collaboration diagram for SearchMatchList:



Properties

- NSMutableArray< [SearchMatchInfo](#) * > * [matchListArray](#)
REQUIRED: List of search matches in SORTED ORDER.
- NSUInteger [matchListArray_Count](#)
The number of items in matchListArray without causing the array to be created.

5.163.1 Detailed Description

List of matches.

5.163.2 Property Documentation

5.163.2.1 matchListArray

- (NSMutableArray<[SearchMatchInfo](#)*>*) matchListArray [read], [write], [nonatomic], [strong]
REQUIRED: List of search matches in SORTED ORDER.

5.163.2.2 matchListArray_Count

- (NSUInteger) matchListArray_Count [read], [nonatomic], [assign]
The number of items in `matchListArray` without causing the array to be created.
The documentation for this class was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.164 SearchMatchList__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [matchListArray](#)

5.164.1 Field Documentation

5.164.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

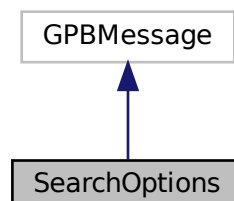
5.164.1.2 matchListArray

- (NSMutableArray*) matchListArray [protected]
The documentation for this struct was generated from the following file:

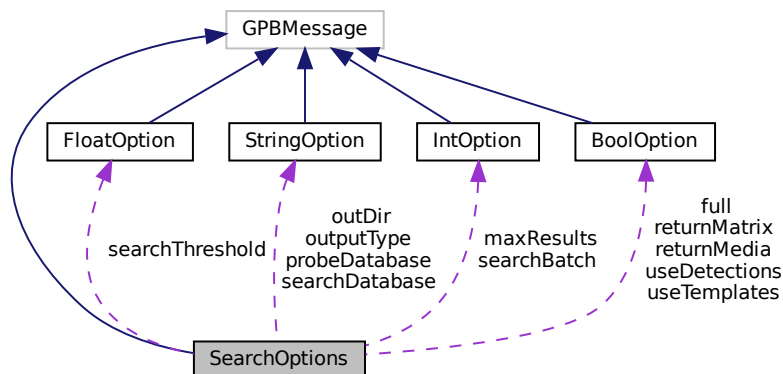
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.165 SearchOptions Class Reference

#import <Briar.pbobjc.h>
Inheritance diagram for SearchOptions:



Collaboration diagram for SearchOptions:



Properties

- SearchFlags [flag](#)
- [BoolOption](#) * [full](#)
OPTIONAL: to perform a full MxN search instead of a K-core search.
- [BOOL](#) [hasFull](#)
Test to see if `full` has been set.
- [BOOL](#) [hasMaxResults](#)
Test to see if `maxResults` has been set.
- [BOOL](#) [hasOutDir](#)
Test to see if `outDir` has been set.
- [BOOL](#) [hasOutputType](#)
Test to see if `outputType` has been set.
- [BOOL](#) [hasProbeDatabase](#)
Test to see if `probeDatabase` has been set.
- [BOOL](#) [hasReturnMatrix](#)
Test to see if `returnMatrix` has been set.
- [BOOL](#) [hasReturnMedia](#)
Test to see if `returnMedia` has been set.
- [BOOL](#) [hasSearchBatch](#)
Test to see if `searchBatch` has been set.
- [BOOL](#) [hasSearchDatabase](#)
Test to see if `searchDatabase` has been set.
- [BOOL](#) [hasSearchThreshold](#)
Test to see if `searchThreshold` has been set.
- [BOOL](#) [hasUseDetections](#)
Test to see if `useDetections` has been set.
- [BOOL](#) [hasUseTemplates](#)
Test to see if `useTemplates` has been set.
- [IntOption](#) * [maxResults](#)
OPTIONAL: Maximum number of results per probe.
- BiometricModality [modality](#)
REQUIRED: If specified use this modality for search operations.

- [StringOption * outDir](#)
Defines options to use for search operations.
- [StringOption * outputType](#)
DEPRICATED: ???.
- [StringOption * probeDatabase](#)
DEPRICATED: Already in search request.
- [BoolOption * returnMatrix](#)
OPTIONAL: to return the search matrix instead matchresults.
- [BoolOption * returnMedia](#)
OPTIONAL: Should we return media (e.i.
- [IntOption * searchBatch](#)
DEPRICATED: ???.
- [StringOption * searchDatabase](#)
DEPRICATED: Already in search request.
- [FloatOption * searchThreshold](#)
OPTIONAL: Exclude search results below this threshold.
- [BoolOption * useDetections](#)
- [BoolOption * useTemplates](#)

5.165.1 Property Documentation

5.165.1.1 flag

- (SearchFlags) flag [read], [write], [nonatomic], [assign]

5.165.1.2 full

- ([BoolOption*](#)) full [read], [write], [nonatomic], [strong]
OPTIONAL: to perform a full MxN search instead of a K-core search.

5.165.1.3 hasFull

- (BOOL) hasFull [read], [write], [nonatomic], [assign]
Test to see if full has been set.

5.165.1.4 hasMaxResults

- (BOOL) hasMaxResults [read], [write], [nonatomic], [assign]
Test to see if maxResults has been set.

5.165.1.5 hasOutDir

- (BOOL) hasOutDir [read], [write], [nonatomic], [assign]
Test to see if outDir has been set.

5.165.1.6 hasOutputType

- (BOOL) hasOutputType [read], [write], [nonatomic], [assign]
Test to see if outputType has been set.

5.165.1.7 hasProbeDatabase

- (BOOL) hasProbeDatabase [read], [write], [nonatomic], [assign]
Test to see if probeDatabase has been set.

5.165.1.8 hasReturnMatrix

- (BOOL) hasReturnMatrix [read], [write], [nonatomic], [assign]
Test to see if returnMatrix has been set.

5.165.1.9 hasReturnMedia

- (BOOL) hasReturnMedia [read], [write], [nonatomic], [assign]
Test to see if returnMedia has been set.

5.165.1.10 hasSearchBatch

- (BOOL) hasSearchBatch [read], [write], [nonatomic], [assign]
Test to see if searchBatch has been set.

5.165.1.11 hasSearchDatabase

- (BOOL) hasSearchDatabase [read], [write], [nonatomic], [assign]
Test to see if searchDatabase has been set.

5.165.1.12 hasSearchThreshold

- (BOOL) hasSearchThreshold [read], [write], [nonatomic], [assign]
Test to see if searchThreshold has been set.

5.165.1.13 hasUseDetections

- (BOOL) hasUseDetections [read], [write], [nonatomic], [assign]
Test to see if useDetections has been set.

5.165.1.14 hasUseTemplates

- (BOOL) hasUseTemplates [read], [write], [nonatomic], [assign]
Test to see if useTemplates has been set.

5.165.1.15 maxResults

- (IntOption*) maxResults [read], [write], [nonatomic], [strong]
OPTIONAL: Maximum number of results per probe.

5.165.1.16 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]
REQUIRED: If specified use this modality for search operations.
If "UNSPECIFIED" fuse modalities together.

5.165.1.17 outDir

- ([StringOption*](#)) outDir [read], [write], [nonatomic], [strong]
 Defines options to use for search operations.

5.165.1.18 outputType

- ([StringOption*](#)) outputType [read], [write], [nonatomic], [strong]
 DEPRICATED: ???.
 Output the search logs

5.165.1.19 probeDatabase

- ([StringOption*](#)) probeDatabase [read], [write], [nonatomic], [strong]
 DEPRICATED: Already in search request.
 The database name to be used as the probe database (if none, it will not be used)

5.165.1.20 returnMatrix

- ([BoolOption*](#)) returnMatrix [read], [write], [nonatomic], [strong]
 OPTIONAL: to return the search matrix instead matchresults.

5.165.1.21 returnMedia

- ([BoolOption*](#)) returnMedia [read], [write], [nonatomic], [strong]
 OPTIONAL: Should we return media (e.i. cropped images) related to the detections back to the client?

5.165.1.22 searchBatch

- ([IntOption*](#)) searchBatch [read], [write], [nonatomic], [strong]
 DEPRICATED: ???.
 batch size for search processes

5.165.1.23 searchDatabase

- ([StringOption*](#)) searchDatabase [read], [write], [nonatomic], [strong]
 DEPRICATED: Already in search request.
 The database name to be used as the gallery/search database

5.165.1.24 searchThreshold

- ([FloatOption*](#)) searchThreshold [read], [write], [nonatomic], [strong]
 OPTIONAL: Exclude search results below this threshold.
 Server should select a reasonable default if missing.

5.165.1.25 useDetections

- ([BoolOption*](#)) useDetections [read], [write], [nonatomic], [strong]

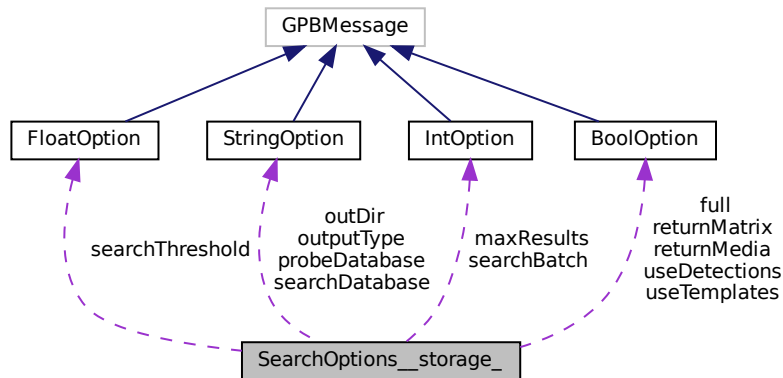
5.165.1.26 useTemplates

- ([BoolOption*](#)) useTemplates [read], [write], [nonatomic], [strong]
 The documentation for this class was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.166 SearchOptions__storage_ Struct Reference

Collaboration diagram for SearchOptions__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- SearchFlags `flag`
- `BoolOption` * `full`
- `IntOption` * `maxResults`
- BiometricModality `modality`
- `StringOption` * `outDir`
- `StringOption` * `outputType`
- `StringOption` * `probeDatabase`
- `BoolOption` * `returnMatrix`
- `BoolOption` * `returnMedia`
- `IntOption` * `searchBatch`
- `StringOption` * `searchDatabase`
- `FloatOption` * `searchThreshold`
- `BoolOption` * `useDetections`
- `BoolOption` * `useTemplates`

5.166.1 Field Documentation

5.166.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.166.1.2 flag

```
- (SearchFlags) flag [protected]
```

5.166.1.3 full

```
- (BoolOption*) full [protected]
```

5.166.1.4 maxResults

- ([IntOption*](#)) maxResults [protected]

5.166.1.5 modality

- ([BiometricModality](#)) modality [protected]

5.166.1.6 outDir

- ([StringOption*](#)) outDir [protected]

5.166.1.7 outputType

- ([StringOption*](#)) outputType [protected]

5.166.1.8 probeDatabase

- ([StringOption*](#)) probeDatabase [protected]

5.166.1.9 returnMatrix

- ([BoolOption*](#)) returnMatrix [protected]

5.166.1.10 returnMedia

- ([BoolOption*](#)) returnMedia [protected]

5.166.1.11 searchBatch

- ([IntOption*](#)) searchBatch [protected]

5.166.1.12 searchDatabase

- ([StringOption*](#)) searchDatabase [protected]

5.166.1.13 searchThreshold

- ([FloatOption*](#)) searchThreshold [protected]

5.166.1.14 useDetections

- ([BoolOption*](#)) useDetections [protected]

5.166.1.15 useTemplates

- ([BoolOption*](#)) useTemplates [protected]

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

- BOOL [hasExtractReply](#)
Test to see if `extractReply` has been set.
- BOOL [hasProgress](#)
Test to see if `progress` has been set.
- NSMutableArray< [Detection](#) * > * [probeDetectionsArray](#)
OPTIONAL: Return: In the case of multiple probes within a single image, A list of detection locations on the probe image that the matchlists belong to.
- NSUInteger [probeDetectionsArray_Count](#)
The number of items in `probeDetectionsArray` without causing the array to be created.
- [BriarProgress](#) * [progress](#)
OPTIONAL: provides progress updates for progress bar display.
- BOOL [progressOnlyReply](#)
REQUIRED: set to true if this is a reply only providing a progress update to the API.
- NSMutableArray< [SearchMatchList](#) * > * [similaritiesArray](#)
REQUIRED: Return: List list of similarities (results).
- NSUInteger [similaritiesArray_Count](#)
The number of items in `similaritiesArray` without causing the array to be created.

5.167.1 Property Documentation

5.167.1.1 detectReply

- ([DetectReply](#)*) `detectReply` [read], [write], [nonatomic], [strong]

OPTIONAL: A detect reply to be populated if the service is sending intermediate detection results back to the client.

5.167.1.2 durations

- ([BriarDurations](#)*) `durations` [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.167.1.3 errors

- ([BriarErrors](#)*) `errors` [read], [write], [nonatomic], [strong]

5.167.1.4 extractReply

- ([ExtractReply](#)*) `extractReply` [read], [write], [nonatomic], [strong]

OPTIONAL: An extract reply to be populated if the service is sending intermediate extraction results back to the client.

5.167.1.5 hasDetectReply

- (BOOL) `hasDetectReply` [read], [write], [nonatomic], [assign]

Test to see if `detectReply` has been set.

5.167.1.6 hasDurations

- (BOOL) `hasDurations` [read], [write], [nonatomic], [assign]

Test to see if `durations` has been set.

5.167.1.7 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

Test to see if errors has been set.

5.167.1.8 hasExtractReply

- (BOOL) hasExtractReply [read], [write], [nonatomic], [assign]

Test to see if extractReply has been set.

5.167.1.9 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]

Test to see if progress has been set.

5.167.1.10 probeDetectionsArray

- (NSMutableArray<Detection*>*) probeDetectionsArray [read], [write], [nonatomic], [strong]

OPTIONAL: Return: In the case of multiple probes within a single image, A list of detection locations on the probe image that the matchlists belong to.

5.167.1.11 probeDetectionsArray_Count

- (NSUInteger) probeDetectionsArray_Count [read], [nonatomic], [assign]

The number of items in probeDetectionsArray without causing the array to be created.

5.167.1.12 progress

- (BriarProgress*) progress [read], [write], [nonatomic], [strong]

OPTIONAL: provides progress updates for progress bar display.

See example code for details

5.167.1.13 progressOnlyReply

- (BOOL) progressOnlyReply [read], [write], [nonatomic], [assign]

REQUIRED: set to true if this is a reply only providing a progress update to the API.

If progress_only_reply is set to True, nothing else in the reply needs to be populated

5.167.1.14 similaritiesArray

- (NSMutableArray<SearchMatchList*>*) similaritiesArray [read], [write], [nonatomic], [strong]

REQUIRED: Return: List list of similarities (results).

There should be one [SearchMatchList](#) per detected entity within the probe

5.167.1.15 similaritiesArray_Count

- (NSUInteger) similaritiesArray_Count [read], [nonatomic], [assign]

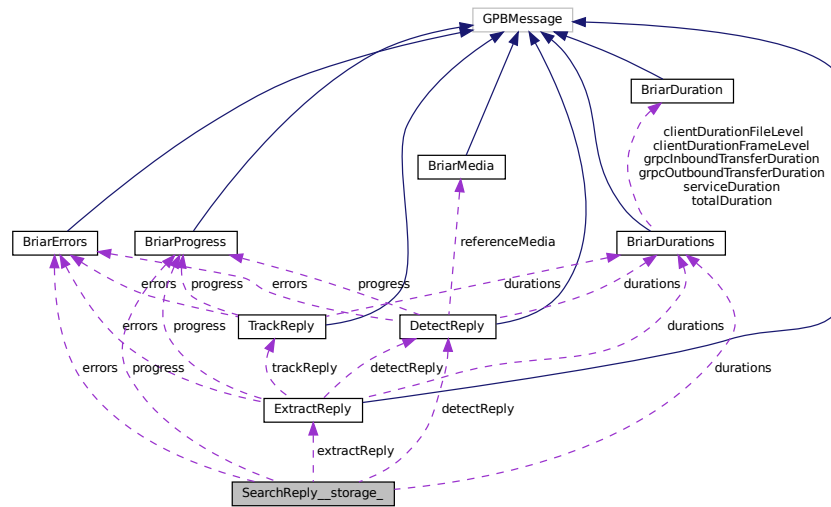
The number of items in similaritiesArray without causing the array to be created.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.168 SearchReply__storage_ Struct Reference

Collaboration diagram for SearchReply__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `DetectReply * detectReply`
- `BriarDurations * durations`
- `BriarErrors * errors`
- `ExtractReply * extractReply`
- `NSMutableArray * probeDetectionsArray`
- `BriarProgress * progress`
- `NSMutableArray * similaritiesArray`

5.168.1 Field Documentation

5.168.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.168.1.2 detectReply

```
- (DetectReply*) detectReply [protected]
```

5.168.1.3 durations

```
- (BriarDurations*) durations [protected]
```

5.168.1.4 errors

```
- (BriarErrors*) errors [protected]
```

5.168.1.5 extractReply

- ([ExtractReply*](#)) extractReply [protected]

5.168.1.6 probeDetectionsArray

- (NSMutableArray*) probeDetectionsArray [protected]

5.168.1.7 progress

- ([BriarProgress*](#)) progress [protected]

5.168.1.8 similaritiesArray

- (NSMutableArray*) similaritiesArray [protected]

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

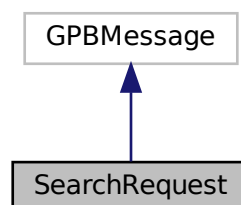
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

5.169 SearchRequest Class Reference

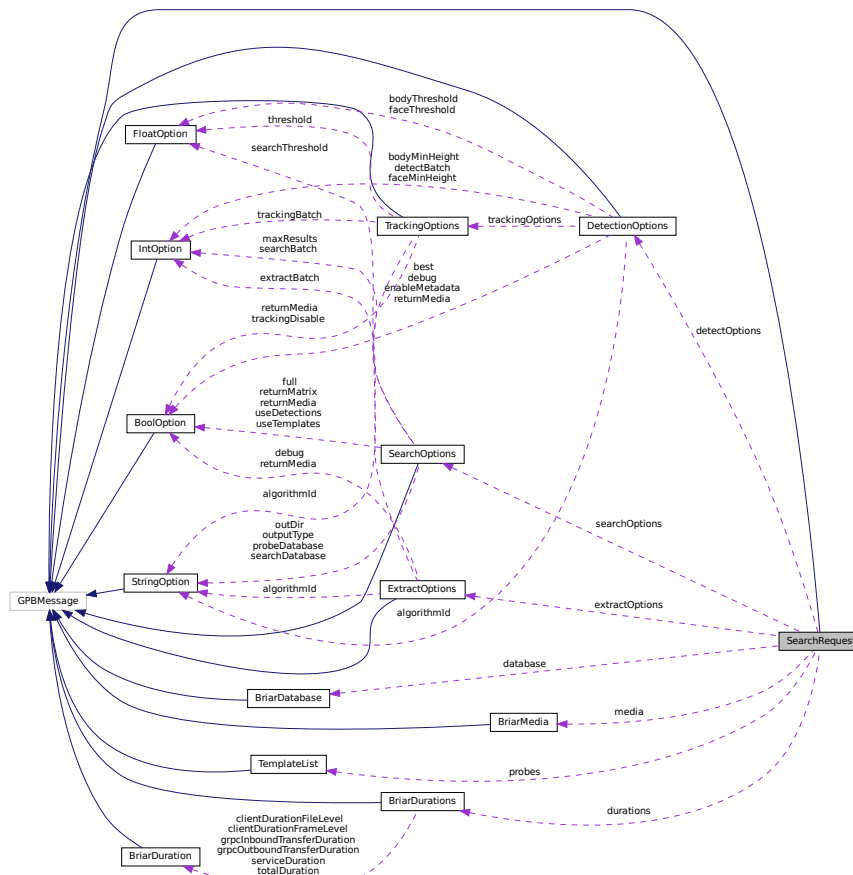
There are three options on how to run a search.

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for SearchRequest:



Collaboration diagram for SearchRequest:



Properties

- **BriarDatabase** * **database**
REQUIRED: Database to search.
- **NSMutableArray**< **Detection** * > * **detectionsArray**
OPTIONAL: Detection to extract probe template from.
- **NSUInteger** **detectionsArray_Count**
The number of items in detectionsArray without causing the array to be created.
- **DetectionOptions** * **detectOptions**
- **BriarDurations** * **durations**
Log the time needed to complete the request on the server.
- **ExtractOptions** * **extractOptions**
- **BOOL** **hasDatabase**
Test to see if database has been set.
- **BOOL** **hasDetectOptions**
Test to see if detectOptions has been set.
- **BOOL** **hasDurations**
Test to see if durations has been set.
- **BOOL** **hasExtractOptions**
Test to see if extractOptions has been set.
- **BOOL** **hasMedia**

- *Test to see if `media` has been set.*
- BOOL [hasProbes](#)
 - *Test to see if `probes` has been set.*
- BOOL [hasSearchOptions](#)
 - *Test to see if `searchOptions` has been set.*
- BriarMedia * [media](#)
 - *SELECTION 1: Image to extract probe template from.*
- TemplateList * [probes](#)
 - *SELECTION 2: Templates to search.*
- SearchOptions * [searchOptions](#)

5.169.1 Detailed Description

There are three options on how to run a search.

Selection 1) Supply probe media and search for any people detected. Selection 2) Supply previously extracted templates. Selection 3) Supply a previously extracted database and search for probes in that database.

5.169.2 Property Documentation

5.169.2.1 database

– (BriarDatabase*) database [read], [write], [nonatomic], [strong]

REQUIRED: Database to search.

5.169.2.2 detectionsArray

– (NSMutableArray<Detection*>*) detectionsArray [read], [write], [nonatomic], [strong]

OPTIONAL: [Detection](#) to extract probe template from.

5.169.2.3 detectionsArray_Count

– (NSUInteger) detectionsArray_Count [read], [nonatomic], [assign]

The number of items in `detectionsArray` without causing the array to be created.

5.169.2.4 detectOptions

– (DetectionOptions*) detectOptions [read], [write], [nonatomic], [strong]

5.169.2.5 durations

– (BriarDurations*) durations [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.169.2.6 extractOptions

– (ExtractOptions*) extractOptions [read], [write], [nonatomic], [strong]

5.169.2.7 hasDatabase

- (BOOL) hasDatabase [read], [write], [nonatomic], [assign]
Test to see if database has been set.

5.169.2.8 hasDetectOptions

- (BOOL) hasDetectOptions [read], [write], [nonatomic], [assign]
Test to see if detectOptions has been set.

5.169.2.9 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
Test to see if durations has been set.

5.169.2.10 hasExtractOptions

- (BOOL) hasExtractOptions [read], [write], [nonatomic], [assign]
Test to see if extractOptions has been set.

5.169.2.11 hasMedia

- (BOOL) hasMedia [read], [write], [nonatomic], [assign]
Test to see if media has been set.

5.169.2.12 hasProbes

- (BOOL) hasProbes [read], [write], [nonatomic], [assign]
Test to see if probes has been set.

5.169.2.13 hasSearchOptions

- (BOOL) hasSearchOptions [read], [write], [nonatomic], [assign]
Test to see if searchOptions has been set.

5.169.2.14 media

- ([BriarMedia*](#)) media [read], [write], [nonatomic], [strong]
SELECTION 1: Image to extract probe template from.

5.169.2.15 probes

- ([TemplateList*](#)) probes [read], [write], [nonatomic], [strong]
SELECTION 2: Templates to search.

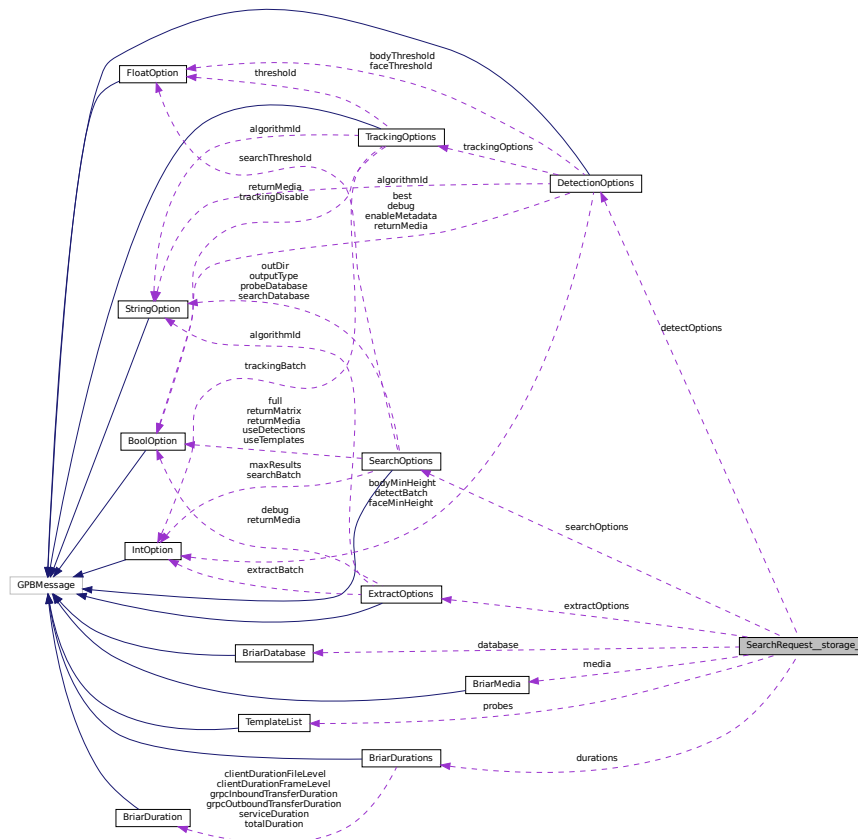
5.169.2.16 searchOptions

- ([SearchOptions*](#)) searchOptions [read], [write], [nonatomic], [strong]
The documentation for this class was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.170 SearchRequest__storage__ Struct Reference

Collaboration diagram for SearchRequest__storage__:



Protected Attributes

- `uint32_t _has_storage_[1]`
- `BriarDatabase * database`
- `NSMutableArray * detectionsArray`
- `DetectionOptions * detectOptions`
- `BriarDurations * durations`
- `ExtractOptions * extractOptions`
- `BriarMedia * media`
- `TemplateList * probes`
- `SearchOptions * searchOptions`

5.170.1 Field Documentation

5.170.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.170.1.2 database

- (`BriarDatabase*`) `database` [protected]

5.170.1.3 detectionsArray

- (NSMutableArray*) detectionsArray [protected]

5.170.1.4 detectOptions

- (DetectionOptions*) detectOptions [protected]

5.170.1.5 durations

- (BriarDurations*) durations [protected]

5.170.1.6 extractOptions

- (ExtractOptions*) extractOptions [protected]

5.170.1.7 media

- (BriarMedia*) media [protected]

5.170.1.8 probes

- (TemplateList*) probes [protected]

5.170.1.9 searchOptions

- (SearchOptions*) searchOptions [protected]

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

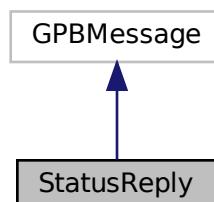
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

5.171 StatusReply Class Reference

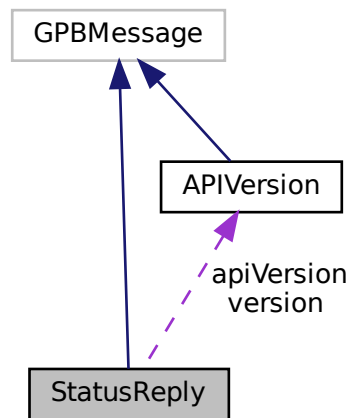
Returns basic status and information on the service and its version as well as additional options and features supported.

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for StatusReply:



Collaboration diagram for StatusReply:



Properties

- [APIVersion](#) * [apiVersion](#)
REQUIRED: The specific version for this service.
- NSMutableArray< [Attribute](#) * > * [configurationArray](#)
Optional features or options that can be communicated to clients.
- NSUInteger [configurationArray_Count](#)
The number of items in `configurationArray` without causing the array to be created.
- NSString * [developerName](#)
REQUIRED: The name of the developer of the service.
- NSString * [devShort](#)
OPTIONAL: The shortened or abbreviated name of name of the developer of the service.
- BOOL [hasApiVersion](#)
Test to see if `apiVersion` has been set.
- BOOL [hasVersion](#)
Test to see if `version` has been set.
- NSString * [serviceName](#)
REQUIRED: The name of the service software.
- enum BriarServiceStatus [status](#)
REQUIRED: Used to communicate the status of the service.
- [APIVersion](#) * [version](#)
REQUIRED: The specific version for this service.

5.171.1 Detailed Description

Returns basic status and information on the service and its version as well as additional options and features supported.

5.171.2 Property Documentation

5.171.2.1 apiVersion

- ([APIVersion](#)*) apiVersion [read], [write], [nonatomic], [strong]

REQUIRED: The specific version for this service.

5.171.2.2 configurationArray

- (NSMutableArray<[Attribute](#)>*) configurationArray [read], [write], [nonatomic], [strong]

Optional features or options that can be communicated to clients.

This could communicate preferences or settings for the service and additional metadata.

5.171.2.3 configurationArray_Count

- (NSUInteger) configurationArray_Count [read], [nonatomic], [assign]

The number of items in configurationArray without causing the array to be created.

5.171.2.4 developerName

- (NSString*) developerName [read], [write], [nonatomic], [copy]

REQUIRED: The name of the developer of the service.

5.171.2.5 devShort

- (NSString*) devShort [read], [write], [nonatomic], [copy]

OPTIONAL: The shortened or abbreviated name of name of the developer of the service.

5.171.2.6 hasApiVersion

- (BOOL) hasApiVersion [read], [write], [nonatomic], [assign]

Test to see if apiVersion has been set.

5.171.2.7 hasVersion

- (BOOL) hasVersion [read], [write], [nonatomic], [assign]

Test to see if version has been set.

5.171.2.8 serviceName

- (NSString*) serviceName [read], [write], [nonatomic], [copy]

REQUIRED: The name of the service software.

5.171.2.9 status

- (enum BriarServiceStatus) status [read], [write], [nonatomic], [assign]

REQUIRED: Used to communicate the status of the service.

This should typically return READY.

5.171.2.10 version

- ([APIVersion](#)*) version [read], [write], [nonatomic], [strong]

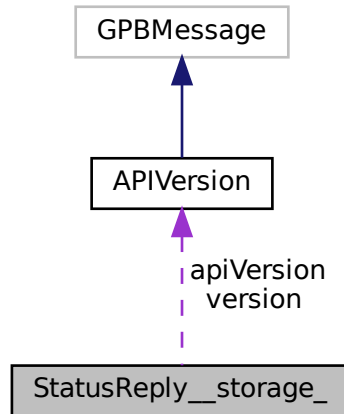
REQUIRED: The specific version for this service.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.172 StatusReply__storage_ Struct Reference

Collaboration diagram for StatusReply__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- [APIVersion](#) * [apiVersion](#)
- NSMutableArray * [configurationArray](#)
- NSString * [developerName](#)
- NSString * [devShort](#)
- NSString * [serviceName](#)
- BriarServiceStatus [status](#)
- [APIVersion](#) * [version](#)

5.172.1 Field Documentation

5.172.1.1 [_has_storage_](#)

```
- (uint32_t \_has\_storage\_[1]) [protected]
```

5.172.1.2 [apiVersion](#)

```
- (APIVersion*) apiVersion [protected]
```

5.172.1.3 [configurationArray](#)

```
- (NSMutableArray*) configurationArray [protected]
```

5.172.1.4 [developerName](#)

```
- (NSString*) developerName [protected]
```

5.172.1.5 devShort

```
- (NSString*) devShort [protected]
```

5.172.1.6 serviceName

```
- (NSString*) serviceName [protected]
```

5.172.1.7 status

```
- (BriarServiceStatus) status [protected]
```

5.172.1.8 version

```
- (APIVersion*) version [protected]
```

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

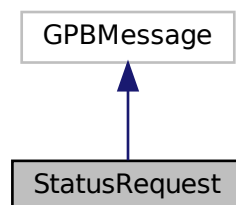
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

5.173 StatusRequest Class Reference

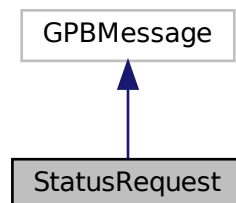
Request status on the service.

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for StatusRequest:



Collaboration diagram for StatusRequest:



5.173.1 Detailed Description

Request status on the service.

This is currently an empty message.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h](#)

5.174 StatusRequest__storage__ Struct Reference

Protected Attributes

- [uint32_t _has_storage_ \[1\]](#)

5.174.1 Field Documentation

5.174.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

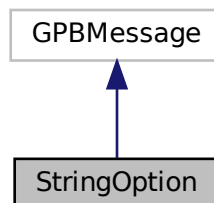
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

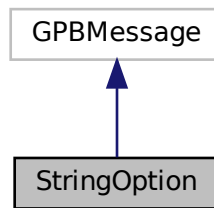
5.175 StringOption Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for StringOption:



Collaboration diagram for StringOption:



Properties

- BOOL [overrideDefault](#)
- NSString * [value](#)

5.175.1 Property Documentation

5.175.1.1 overrideDefault

- (BOOL) overrideDefault [read], [write], [nonatomic], [assign]

5.175.1.2 value

- (NSString*) value [read], [write], [nonatomic], [copy]

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[Briar.pbobjc.h](#)

5.176 StringOption__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSString * [value](#)

5.176.1 Field Documentation

5.176.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.176.1.2 value

- (NSString*) value [protected]

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

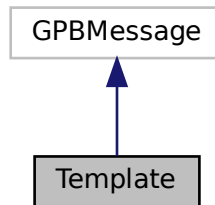
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[Briar.pbobjc.m](#)

5.177 Template Class Reference

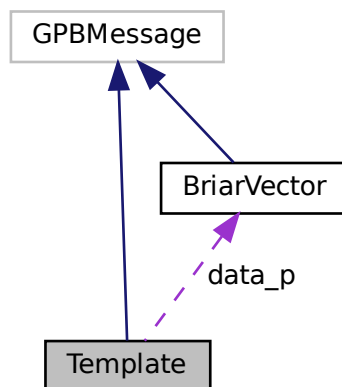
Data structure to hold signature generated from an extraction.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for Template:



Collaboration diagram for Template:



Properties

- NSString * [algorithm](#)
OPTIONAL: Document which algorithm or machine learning model was used to create the signature vector.
- int64_t [associatedDetectionId](#)
REQUIRED: The detection ID that this template is associated to.
- int64_t [associatedTrackletId](#)
REQUIRED: The tracklet ID that this template is associated to, if only detections are used leave this blank.
- NSData * [buffer](#)
OPTIONAL: General storage.
- BriarVector * [data_p](#)
OPTIONAL: Simple templates can use a standard floating point feature vector.
- BOOL [hasData_p](#)

- Test to see if `data_p` has been set.*

 - NSString * `id_p`
REQUIRED: String identifier associated with template.
 - NSMutableArray< Attribute * > * `metadataArray`
OPTIONAL: Unstructured mapping to store additional data about the record as needed.
 - NSUInteger `metadataArray_Count`
The number of items in `metadataArray` without causing the array to be created.
 - BiometricModality `modality`
 - NSMutableArray< TemplateData * > * `partsArray`
RECOMMENDED: Mapping to store multipart or multiple modality templates.
 - NSUInteger `partsArray_Count`
The number of items in `partsArray` without causing the array to be created.

5.177.1 Detailed Description

Data structure to hold signature generated from an extraction.
Typically just populate one of "parts", "data", or "buffer".

5.177.2 Property Documentation

5.177.2.1 algorithm

- (NSString*) algorithm [read], [write], [nonatomic], [copy]
OPTIONAL: Document which algorithm or machine learning model was used to create the signature vector.

5.177.2.2 associatedDetectionId

- (int64_t) associatedDetectionId [read], [write], [nonatomic], [assign]
REQUIRED: The detection ID that this template is associated to.

5.177.2.3 associatedTrackletId

- (int64_t) associatedTrackletId [read], [write], [nonatomic], [assign]
REQUIRED: The tracklet ID that this template is associated to, if only detections are used leave this blank.

5.177.2.4 buffer

- (NSData*) buffer [read], [write], [nonatomic], [copy]
OPTIONAL: General storage.
Can be used for raw binary data templates or proprietary formats.

5.177.2.5 data_p

- (BriarVector*) data_p [read], [write], [nonatomic], [strong]
OPTIONAL: Simple templates can use a standard floating point feature vector.

5.177.2.6 hasData_p

- (BOOL) hasData_p [read], [write], [nonatomic], [assign]
Test to see if `data_p` has been set.

5.177.2.7 id_p

- (NSString*) id_p [read], [write], [nonatomic], [copy]

REQUIRED: String identifier associated with template.

5.177.2.8 metadataArray

- (NSMutableArray<Attribute*>*) metadataArray [read], [write], [nonatomic], [strong]

OPTIONAL: Unstructured mapping to store additional data about the record as needed.

5.177.2.9 metadataArray_Count

- (NSUInteger) metadataArray_Count [read], [nonatomic], [assign]

The number of items in metadataArray without causing the array to be created.

5.177.2.10 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]

5.177.2.11 partsArray

- (NSMutableArray<TemplateData*>*) partsArray [read], [write], [nonatomic], [strong]

RECOMMENDED: Mapping to store multipart or multiple modality templates.

5.177.2.12 partsArray_Count

- (NSUInteger) partsArray_Count [read], [nonatomic], [assign]

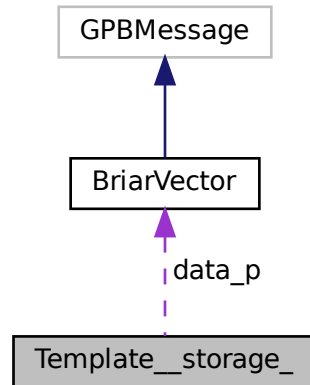
The number of items in partsArray without causing the array to be created.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.178 Template__storage_ Struct Reference

Collaboration diagram for Template__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSString * [algorithm](#)
- int64_t [associatedDetectionId](#)
- int64_t [associatedTrackletId](#)
- NSData * [buffer](#)
- BriarVector * [data_p](#)
- NSString * [id_p](#)
- NSMutableArray * [metadataArray](#)
- BiometricModality [modality](#)
- NSMutableArray * [partsArray](#)

5.178.1 Field Documentation

5.178.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.178.1.2 algorithm

```
- (NSString*) algorithm [protected]
```

5.178.1.3 associatedDetectionId

```
- (int64_t) associatedDetectionId [protected]
```

5.178.1.4 associatedTrackletId

- (int64_t) associatedTrackletId [protected]

5.178.1.5 buffer

- (NSData*) buffer [protected]

5.178.1.6 data_p

- (BriarVector*) data_p [protected]

5.178.1.7 id_p

- (NSString*) id_p [protected]

5.178.1.8 metadataArray

- (NSMutableArray*) metadataArray [protected]

5.178.1.9 modality

- (BiometricModality) modality [protected]

5.178.1.10 partsArray

- (NSMutableArray*) partsArray [protected]

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

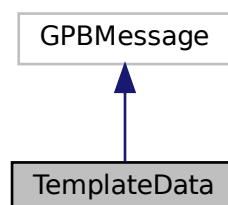
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.179 TemplateData Class Reference

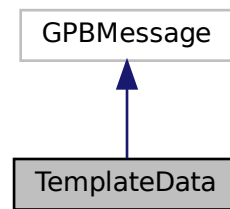
Mapping item to store a simple part of multipart/multimodal templates.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for TemplateData:



Collaboration diagram for TemplateData:



Properties

- NSString * [description_p](#)
OPTIONAL: A text description on the content or type hint.
- NSString * [key](#)
REQUIRED: unique id for this data.
- NSMutableArray< [Attribute](#) * > * [metadataArray](#)
OPTIONAL: Unstructured mapping to store additional data about the record as needed.
- NSUInteger [metadataArray_Count](#)
The number of items in metadataArray without causing the array to be created.
- BiometricModality [modality](#)
RECOMMENDED: Biometric signature captured in the template.
- NSString * [sourceId](#)
OPTIONAL: Link back to the media source of this data.
- NSString * [submodality](#)
OPTIONAL: more detail on the type of modality or signature if needed.
- NSString * [trackletId](#)
OPTIONAL: Link back to the tracklet or detection associated with this data.

5.179.1 Detailed Description

Mapping item to store a simple part of multipart/multimodal templates.

The message contains mostly optional header and then algorithms will typically use just one data format (buffer, matrix, vector, etc.) to encode the associated signature data. Attributes can be used to store additional data as needed, i.e. yaw_angle, pitch_angle, resolution.

5.179.2 Property Documentation

5.179.2.1 description_p

```
- (NSString*) description_p [read], [write], [nonatomic], [copy]
```

OPTIONAL: A text description on the content or type hint.

5.179.2.2 key

- (NSString*) key [read], [write], [nonatomic], [copy]

REQUIRED: unique id for this data.

5.179.2.3 metadataArray

- (NSMutableArray<Attribute*>*) metadataArray [read], [write], [nonatomic], [strong]

OPTIONAL: Unstructured mapping to store additional data about the record as needed.

5.179.2.4 metadataArray_Count

- (NSUInteger) metadataArray_Count [read], [nonatomic], [assign]

The number of items in metadataArray without causing the array to be created.

5.179.2.5 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]

RECOMMENDED: Biometric signature captured in the template.

5.179.2.6 sourceId

- (NSString*) sourceId [read], [write], [nonatomic], [copy]

OPTIONAL: Link back to the media source of this data.

5.179.2.7 submodality

- (NSString*) submodality [read], [write], [nonatomic], [copy]

OPTIONAL: more detail on the type of modality or signature if needed.

5.179.2.8 trackletId

- (NSString*) trackletId [read], [write], [nonatomic], [copy]

OPTIONAL: Link back to the tracklet or detection associated with this data.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.180 TemplateData__storage_ Struct Reference**Protected Attributes**

- uint32_t [_has_storage_](#) [1]
- NSString * [description_p](#)
- NSString * [key](#)
- NSMutableArray * [metadataArray](#)
- BiometricModality [modality](#)
- NSString * [sourceId](#)
- NSString * [submodality](#)
- NSString * [trackletId](#)

5.180.1 Field Documentation

5.180.1.1 `_has_storage_`

- (uint32_t _has_storage_[1]) [protected]

5.180.1.2 `description_p`

- (NSString*) description_p [protected]

5.180.1.3 `key`

- (NSString*) key [protected]

5.180.1.4 `metadataArray`

- (NSMutableArray*) metadataArray [protected]

5.180.1.5 `modality`

- (BiometricModality) modality [protected]

5.180.1.6 `sourceId`

- (NSString*) sourceId [protected]

5.180.1.7 `submodality`

- (NSString*) submodality [protected]

5.180.1.8 `trackletId`

- (NSString*) trackletId [protected]

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

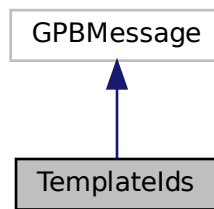
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.181 `TemplateIds` Class Reference

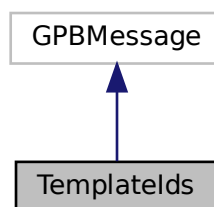
A message representing a list of unique template ids.

```
#import <Briar.pbobjc.h>
```


Inheritance diagram for TemplateIds:



Collaboration diagram for TemplateIds:



Properties

- NSMutableArray< NSString * > * [idsArray](#)
List of unique ids relating to the templates.
- NSUInteger [idsArray_Count](#)
The number of items in `idsArray` without causing the array to be created.
- int32_t [length](#)
DEPRICATED: not needed in protobuf.

5.181.1 Detailed Description

A message representing a list of unique template ids.

5.181.2 Property Documentation

5.181.2.1 idsArray

– (NSMutableArray<NSString*>*) `idsArray` [read], [write], [nonatomic], [strong]
List of unique ids relating to the templates.

5.181.2.2 idsArray_Count

- (NSUInteger) idsArray_Count [read], [nonatomic], [assign]
The number of items in `idsArray` without causing the array to be created.

5.181.2.3 length

- (int32_t) length [read], [write], [nonatomic], [assign]
DEPRICATED: not needed in protobuf.

Number of ids

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.182 TemplatedIds__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [idsArray](#)
- int32_t [length](#)

5.182.1 Field Documentation

5.182.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.182.1.2 idsArray

- (NSMutableArray*) idsArray [protected]

5.182.1.3 length

- (int32_t) length [protected]

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

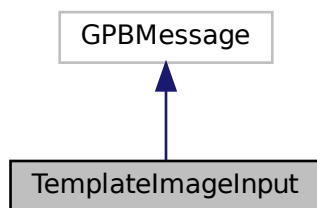
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.183 TemplateImageInput Class Reference

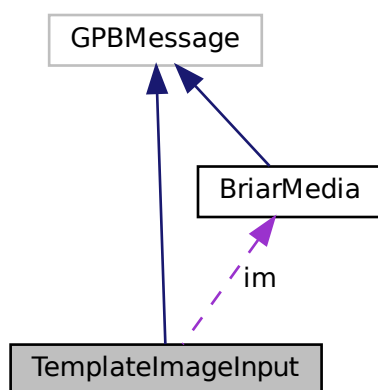
Data structure to keep image data and detections together.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for TemplateImageInput:



Collaboration diagram for TemplateImageInput:



Properties

- NSMutableArray< BriarRect * > * `detectionsArray`
- NSUInteger `detectionsArray_Count`
The number of items in `detectionsArray` without causing the array to be created.
- BOOL `hasIm`
Test to see if `im` has been set.
- BriarMedia * `im`

5.183.1 Detailed Description

Data structure to keep image data and detections together.

5.183.2 Property Documentation

5.183.2.1 detectionsArray

```
- (NSMutableArray<BriarRect*>*) detectionsArray [read], [write], [nonatomic], [strong]
```

5.183.2.2 detectionsArray_Count

```
- (NSUInteger) detectionsArray_Count [read], [nonatomic], [assign]
```

The number of items in detectionsArray without causing the array to be created.

5.183.2.3 hasIm

```
- (BOOL) hasIm [read], [write], [nonatomic], [assign]
```

Test to see if im has been set.

5.183.2.4 im

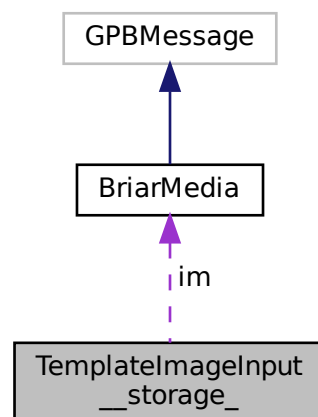
```
- (BriarMedia*) im [read], [write], [nonatomic], [strong]
```

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.184 TemplatImageInput__storage_ Struct Reference

Collaboration diagram for TemplatImageInput__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [detectionsArray](#)
- BriarMedia * [im](#)

5.184.1 Field Documentation

5.184.1.1 `_has_storage_`

```
- (uint32_t _has_storage_[1]) [protected]
```

5.184.1.2 `detectionsArray`

```
- (NSMutableArray*) detectionsArray [protected]
```

5.184.1.3 `im`

```
- (BriarMedia*) im [protected]
```

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

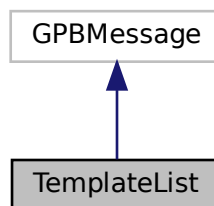
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m`

5.185 TemplateList Class Reference

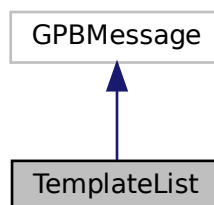
List of template.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for TemplateList:



Collaboration diagram for TemplateList:



Properties

- `NSMutableArray< Template * > * tmpsArray`

List of Templates.

- NSInteger [tmplsArray_Count](#)

The number of items in `tmplsArray` without causing the array to be created.

5.185.1 Detailed Description

List of template.

5.185.2 Property Documentation

5.185.2.1 `tmplsArray`

```
- (NSMutableArray<Template*>*) tmplsArray [read], [write], [nonatomic], [strong]
```

List of Templates.

5.185.2.2 `tmplsArray_Count`

```
- (NSInteger) tmplsArray_Count [read], [nonatomic], [assign]
```

The number of items in `tmplsArray` without causing the array to be created.

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

- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h`

5.186 TemplateList__storage__ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [tmplsArray](#)

5.186.1 Field Documentation

5.186.1.1 `_has_storage_`

```
- (uint32_t _has_storage_[1]) [protected]
```

5.186.1.2 `tmplsArray`

```
- (NSMutableArray*) tmplsArray [protected]
```

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

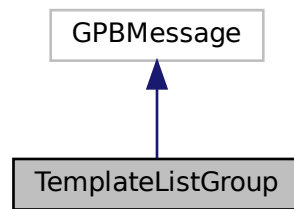
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m`

5.187 TemplateListGroup Class Reference

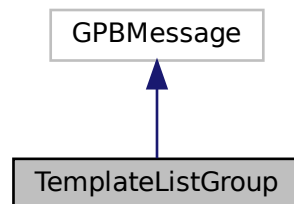
List of List of templates.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for TemplateListGroup:



Collaboration diagram for TemplateListGroup:



Properties

- NSMutableArray< [TemplateList](#) * > * [groupArray](#)
List of List of templates.
- NSInteger [groupArray_Count](#)
The number of items in `groupArray` without causing the array to be created.

5.187.1 Detailed Description

List of List of templates.

5.187.2 Property Documentation

5.187.2.1 groupArray

– (NSMutableArray<[TemplateList](#)*>*) groupArray [read], [write], [nonatomic], [strong]
List of List of templates.

5.187.2.2 groupArray_Count

- (NSUInteger) groupArray_Count [read], [nonatomic], [assign]

The number of items in `groupArray` without causing the array to be created.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.188 TemplateListGroup__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [groupArray](#)

5.188.1 Field Documentation

5.188.1.1 _has_storage_

- (uint32_t [_has_storage_](#)[1]) [protected]

5.188.1.2 groupArray

- (NSMutableArray*) [groupArray](#) [protected]

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

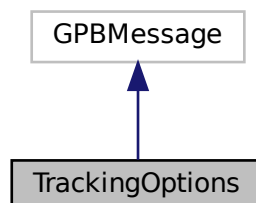
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.189 TrackingOptions Class Reference

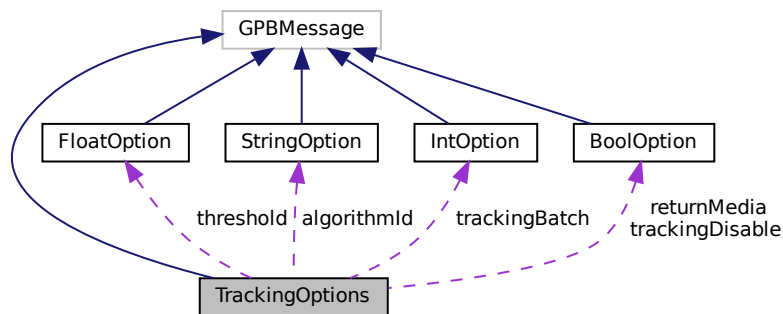
Configuration for the tracking algorithms.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for TrackingOptions:



Collaboration diagram for TrackingOptions:



Properties

- [StringOption](#) * [algorithmId](#)
uid corresponding to which algorithm to use
- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
Used for passing algorithm specific or custom options.
- NSUInteger [attributesArray_Count](#)
The number of items in attributesArray without causing the array to be created.
- BOOL [hasAlgorithmId](#)
Test to see if algorithmId has been set.
- BOOL [hasReturnMedia](#)
Test to see if returnMedia has been set.
- BOOL [hasThreshold](#)
Test to see if threshold has been set.
- BOOL [hasTrackingBatch](#)
Test to see if trackingBatch has been set.
- BOOL [hasTrackingDisable](#)
Test to see if trackingDisable has been set.
- BiometricModality [modality](#)
Whether tracking is for face or whole body.
- [BoolOption](#) * [returnMedia](#)
FloatOption encoding = 4;.
- [FloatOption](#) * [threshold](#)
min score for candidate consideration
- [IntOption](#) * [trackingBatch](#)
batch size for tracking processes
- [BoolOption](#) * [trackingDisable](#)
min score for candidate consideration

5.189.1 Detailed Description

Configuration for the tracking algorithms.

5.189.2 Property Documentation

5.189.2.1 algorithmId

- ([StringOption](#)*) algorithmId [read], [write], [nonatomic], [strong]
uid corresponding to which algorithm to use

5.189.2.2 attributesArray

- ([NSMutableArray](#)<[Attribute](#)*>*) attributesArray [read], [write], [nonatomic], [strong]
Used for passing algorithm specific or custom options.

5.189.2.3 attributesArray_Count

- ([NSUInteger](#)) attributesArray_Count [read], [nonatomic], [assign]
The number of items in attributesArray without causing the array to be created.

5.189.2.4 hasAlgorithmId

- ([BOOL](#)) hasAlgorithmId [read], [write], [nonatomic], [assign]
Test to see if algorithmId has been set.

5.189.2.5 hasReturnMedia

- ([BOOL](#)) hasReturnMedia [read], [write], [nonatomic], [assign]
Test to see if returnMedia has been set.

5.189.2.6 hasThreshold

- ([BOOL](#)) hasThreshold [read], [write], [nonatomic], [assign]
Test to see if threshold has been set.

5.189.2.7 hasTrackingBatch

- ([BOOL](#)) hasTrackingBatch [read], [write], [nonatomic], [assign]
Test to see if trackingBatch has been set.

5.189.2.8 hasTrackingDisable

- ([BOOL](#)) hasTrackingDisable [read], [write], [nonatomic], [assign]
Test to see if trackingDisable has been set.

5.189.2.9 modality

- ([BiometricModality](#)) modality [read], [write], [nonatomic], [assign]
Whether tracking is for face or whole body.

5.189.2.10 returnMedia

- ([BoolOption](#)*) returnMedia [read], [write], [nonatomic], [strong]
[FloatOption](#) encoding = 4;.

5.189.2.11 threshold

- ([FloatOption*](#)) threshold [read], [write], [nonatomic], [strong]
min score for candidate consideration

5.189.2.12 trackingBatch

- ([IntOption*](#)) trackingBatch [read], [write], [nonatomic], [strong]
batch size for tracking processes

5.189.2.13 trackingDisable

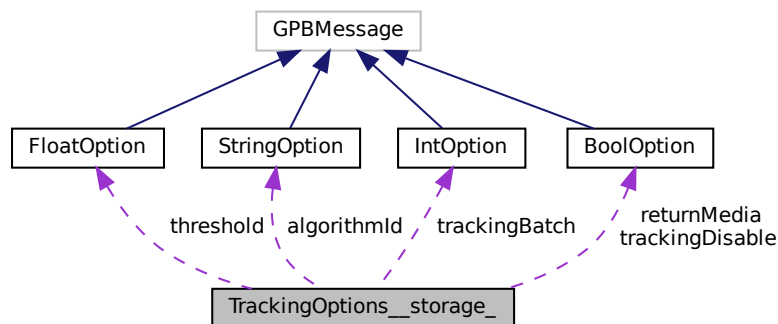
- ([BoolOption*](#)) trackingDisable [read], [write], [nonatomic], [strong]
min score for candidate consideration

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.190 TrackingOptions__storage_ Struct Reference

Collaboration diagram for TrackingOptions__storage_:

**Protected Attributes**

- `uint32_t _has_storage_ [1]`
- `StringOption * algorithmId`
- `NSMutableArray * attributesArray`
- `BiometricModality modality`
- `BoolOption * returnMedia`
- `FloatOption * threshold`
- `IntOption * trackingBatch`
- `BoolOption * trackingDisable`

5.190.1 Field Documentation

5.190.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.190.1.2 `algorithmId`

- ([StringOption*](#)) `algorithmId` [protected]

5.190.1.3 `attributesArray`

- (NSMutableArray*) `attributesArray` [protected]

5.190.1.4 `modality`

- (BiometricModality) `modality` [protected]

5.190.1.5 `returnMedia`

- ([BoolOption*](#)) `returnMedia` [protected]

5.190.1.6 `threshold`

- ([FloatOption*](#)) `threshold` [protected]

5.190.1.7 `trackingBatch`

- ([IntOption*](#)) `trackingBatch` [protected]

5.190.1.8 `trackingDisable`

- ([BoolOption*](#)) `trackingDisable` [protected]

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

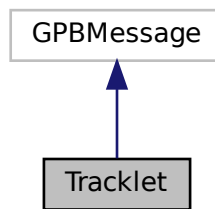
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

5.191 Tracklet Class Reference

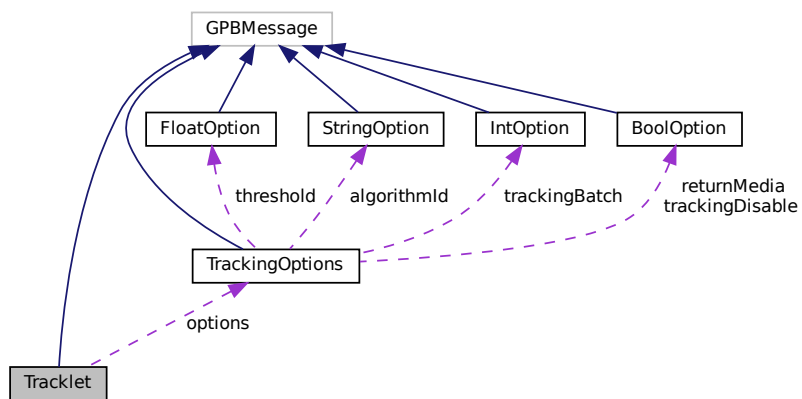
Represents a time-wise track of a detected instance.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for Tracklet:



Collaboration diagram for Tracklet:



Properties

- NSMutableArray< [Attribute](#) * > * [attributesArray](#)
OPTIONAL: attributes describing the tracklet.
- NSUInteger [attributesArray_Count](#)
The number of items in attributesArray without causing the array to be created.
- NSMutableArray< [Detection](#) * > * [detectionsArray](#)
REQUIRED: the set of detections defining the tracklet.
- NSUInteger [detectionsArray_Count](#)
The number of items in detectionsArray without causing the array to be created.
- BOOL [hasOptions](#)
Test to see if options has been set.
- [TrackingOptions](#) * [options](#)
OPTIONAL: persistent options used to call the tracker.
- NSString * [trackletClass](#)
DEPRICATED: use modality or attributes instead.
- int64_t [trackletId](#)
the id of a tracklet for this media

5.191.1 Detailed Description

Represents a time-wise track of a detected instance.

5.191.2 Property Documentation

5.191.2.1 attributesArray

- (NSMutableArray<Attribute*>*) attributesArray [read], [write], [nonatomic], [strong]
 OPTIONAL: attributes describing the tracklet.

5.191.2.2 attributesArray_Count

- (NSUInteger) attributesArray_Count [read], [nonatomic], [assign]
 The number of items in attributesArray without causing the array to be created.

5.191.2.3 detectionsArray

- (NSMutableArray<Detection*>*) detectionsArray [read], [write], [nonatomic], [strong]
 REQUIRED: the set of detections defining the tracklet.

5.191.2.4 detectionsArray_Count

- (NSUInteger) detectionsArray_Count [read], [nonatomic], [assign]
 The number of items in detectionsArray without causing the array to be created.

5.191.2.5 hasOptions

- (BOOL) hasOptions [read], [write], [nonatomic], [assign]
 Test to see if options has been set.

5.191.2.6 options

- (TrackingOptions*) options [read], [write], [nonatomic], [strong]
 OPTIONAL: persistent options used to call the tracker.

5.191.2.7 trackletClass

- (NSString*) trackletClass [read], [write], [nonatomic], [copy]
 DEPRECATED: use modality or attributes instead.
 defines type of tracklet (body, face, features, etc...)

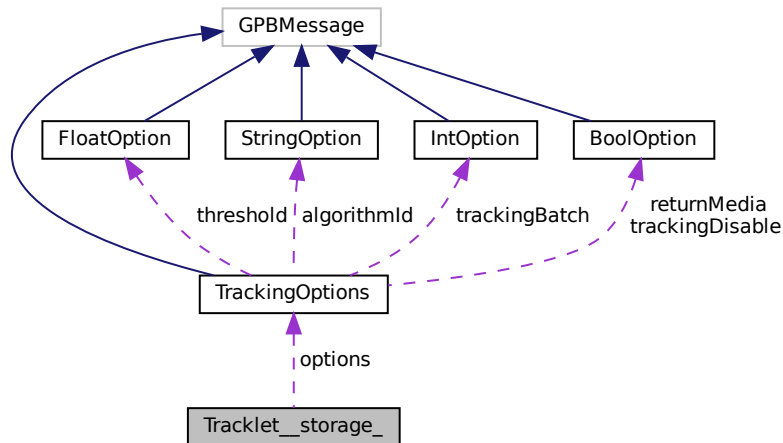
5.191.2.8 trackletId

- (int64_t) trackletId [read], [write], [nonatomic], [assign]
 the id of a tracklet for this media
 The documentation for this class was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.192 Tracklet__storage_ Struct Reference

Collaboration diagram for Tracklet__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `NSMutableArray * attributesArray`
- `NSMutableArray * detectionsArray`
- `TrackingOptions * options`
- `NSString * trackletClass`
- `int64_t trackletId`

5.192.1 Field Documentation

5.192.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.192.1.2 attributesArray

```
- (NSMutableArray*) attributesArray [protected]
```

5.192.1.3 detectionsArray

```
- (NSMutableArray*) detectionsArray [protected]
```

5.192.1.4 options

```
- (TrackingOptions*) options [protected]
```

5.192.1.5 trackletClass

```
- (NSString*) trackletClass [protected]
```

5.192.1.6 trackletId

```
- (int64_t) trackletId [protected]
```

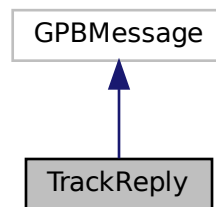
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

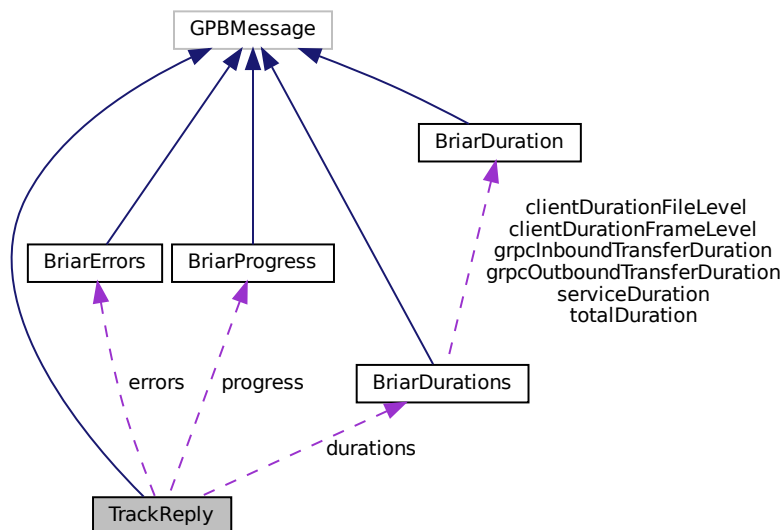
5.193 TrackReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for TrackReply:



Collaboration diagram for TrackReply:



Properties

- [BriarDurations](#) * [durations](#)
- [BriarErrors](#) * [errors](#)
- GPBInt64Array * [frameIdsArray](#)
OPTIONAL: the frame IDs associated with the tracklets.
- NSUInteger [frameIdsArray_Count](#)
The number of items in frameIdsArray without causing the array to be created.
- BOOL [hasDurations](#)
Test to see if durations has been set.
- BOOL [hasErrors](#)
Test to see if errors has been set.
- BOOL [hasProgress](#)
Test to see if progress has been set.
- enum BiometricModality [modality](#)
OPTIONAL: the modality of the track extracted.
- [BriarProgress](#) * [progress](#)
OPTIONAL: provides progress updates for progress bar display.
- BOOL [progressOnlyReply](#)
REQUIRED: set to true if this is a reply only providing a progress update to the API.
- NSMutableArray< [Tracklet](#) * > * [trackletsArray](#)
REQUIRED: set of returned tracklets.
- NSUInteger [trackletsArray_Count](#)
The number of items in trackletsArray without causing the array to be created.

5.193.1 Property Documentation

5.193.1.1 durations

- ([BriarDurations](#)*) durations [read], [write], [nonatomic], [strong]

5.193.1.2 errors

- ([BriarErrors](#)*) errors [read], [write], [nonatomic], [strong]

5.193.1.3 frameIdsArray

- (GPBInt64Array*) frameIdsArray [read], [write], [nonatomic], [strong]
 OPTIONAL: the frame IDs associated with the tracklets.

5.193.1.4 frameIdsArray_Count

- (NSUInteger) frameIdsArray_Count [read], [nonatomic], [assign]
 The number of items in frameIdsArray without causing the array to be created.

5.193.1.5 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]
 Test to see if durations has been set.

5.193.1.6 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

Test to see if errors has been set.

5.193.1.7 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]

Test to see if progress has been set.

5.193.1.8 modality

- (enum BiometricModality) modality [read], [write], [nonatomic], [assign]

OPTIONAL: the modality of the track extracted.

5.193.1.9 progress

- (BriarProgress*) progress [read], [write], [nonatomic], [strong]

OPTIONAL: provides progress updates for progress bar display.

See example code for details

5.193.1.10 progressOnlyReply

- (BOOL) progressOnlyReply [read], [write], [nonatomic], [assign]

REQUIRED: set to true if this is a reply only providing a progress update to the API.

If progress_only_reply is set to True, nothing else in the reply needs to be populated

5.193.1.11 trackletsArray

- (NSMutableArray<Tracklet*>*) trackletsArray [read], [write], [nonatomic], [strong]

REQUIRED: set of returned tracklets.

5.193.1.12 trackletsArray_Count

- (NSUInteger) trackletsArray_Count [read], [nonatomic], [assign]

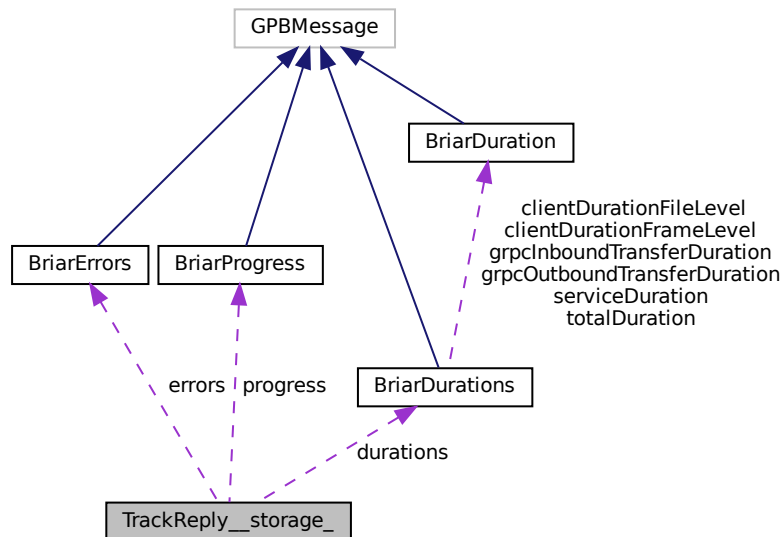
The number of items in trackletsArray without causing the array to be created.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.194 TrackReply__storage_ Struct Reference

Collaboration diagram for TrackReply__storage_:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- `BriarDurations * durations`
- `BriarErrors * errors`
- `GPBInt64Array * frameIdsArray`
- `BiometricModality modality`
- `BriarProgress * progress`
- `NSMutableArray * trackletsArray`

5.194.1 Field Documentation

5.194.1.1 _has_storage_

- (`uint32_t _has_storage_[1]`) [protected]

5.194.1.2 durations

- (`BriarDurations*`) `durations` [protected]

5.194.1.3 errors

- (`BriarErrors*`) `errors` [protected]

5.194.1.4 frameIdsArray

- (GPBInt64Array*) frameIdsArray [protected]

5.194.1.5 modality

- (BiometricModality) modality [protected]

5.194.1.6 progress

- (BriarProgress*) progress [protected]

5.194.1.7 trackletsArray

- (NSMutableArray*) trackletsArray [protected]

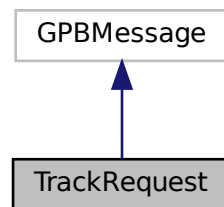
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m

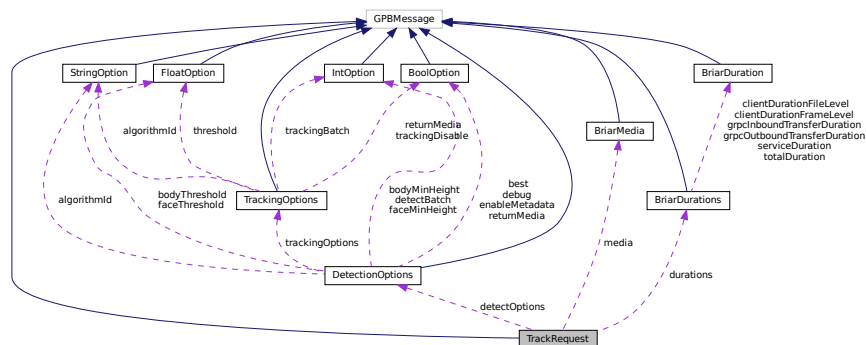
5.195 TrackRequest Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for TrackRequest:



Collaboration diagram for TrackRequest:



Properties

- [DetectionOptions](#) * [detectOptions](#)
Hyperparameters to run the detection with.
- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- BOOL [hasDetectOptions](#)
Test to see if `detectOptions` has been set.
- BOOL [hasDurations](#)
Test to see if `durations` has been set.
- BOOL [hasMedia](#)
Test to see if `media` has been set.
- [BriarMedia](#) * [media](#)
The video media to detect from.
- NSString * [subjectId](#)
Optional unique id of subject the video.
- NSString * [subjectName](#)
Optional name of subject in the video.

5.195.1 Property Documentation

5.195.1.1 `detectOptions`

– ([DetectionOptions](#)*) `detectOptions` [read], [write], [nonatomic], [strong]
Hyperparameters to run the detection with.

5.195.1.2 `durations`

– ([BriarDurations](#)*) `durations` [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.195.1.3 `hasDetectOptions`

– (BOOL) `hasDetectOptions` [read], [write], [nonatomic], [assign]
Test to see if `detectOptions` has been set.

5.195.1.4 `hasDurations`

– (BOOL) `hasDurations` [read], [write], [nonatomic], [assign]
Test to see if `durations` has been set.

5.195.1.5 `hasMedia`

– (BOOL) `hasMedia` [read], [write], [nonatomic], [assign]
Test to see if `media` has been set.

5.195.1.6 `media`

– ([BriarMedia](#)*) `media` [read], [write], [nonatomic], [strong]
The video media to detect from.

5.195.1.7 subjectId

- (NSString*) subjectId [read], [write], [nonatomic], [copy]
Optional unique id of subject the video.

5.195.1.8 subjectName

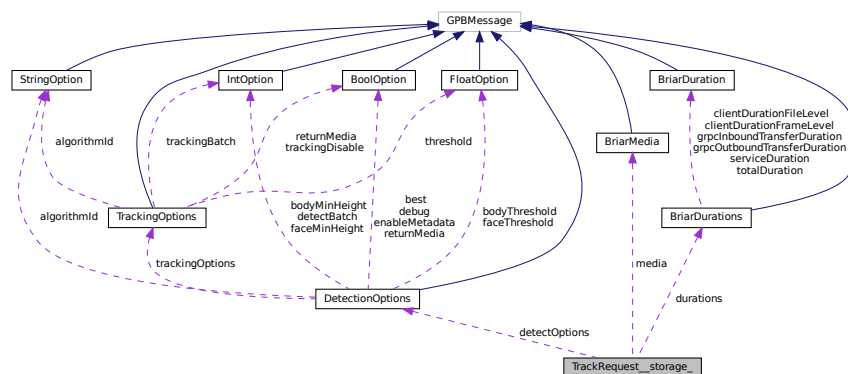
- (NSString*) subjectName [read], [write], [nonatomic], [copy]
Optional name of subject in the video.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.196 TrackRequest__storage_ Struct Reference

Collaboration diagram for TrackRequest__storage_:



Protected Attributes

- uint32_t _has_storage_[1]
- [DetectionOptions](#) * detectOptions
- [BriarDurations](#) * durations
- [BriarMedia](#) * media
- NSString * subjectId
- NSString * subjectName

5.196.1 Field Documentation

5.196.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.196.1.2 detectOptions

- ([DetectionOptions](#)*) detectOptions [protected]

5.196.1.3 durations

- ([BriarDurations*](#)) durations [protected]

5.196.1.4 media

- ([BriarMedia*](#)) media [protected]

5.196.1.5 subjectId

- (NSString*) subjectId [protected]

5.196.1.6 subjectName

- (NSString*) subjectName [protected]

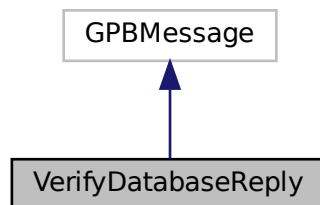
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

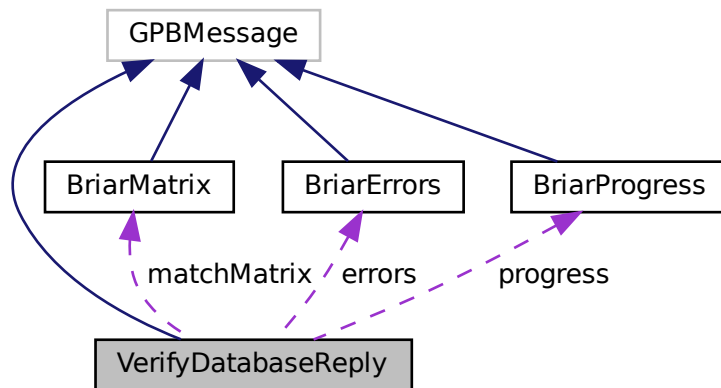
5.197 VerifyDatabaseReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for VerifyDatabaseReply:



Collaboration diagram for VerifyDatabaseReply:



Properties

- [BriarErrors](#) * [errors](#)
- BOOL [hasErrors](#)
Test to see if `errors` has been set.
- BOOL [hasMatchMatrix](#)
Test to see if `matchMatrix` has been set.
- BOOL [hasProgress](#)
Test to see if `progress` has been set.
- [BriarMatrix](#) * [matchMatrix](#)
Required: A match matrix instead of a Matchlist.
- NSMutableDictionary< NSString *, [MediaMetadata](#) * > * [matrixGalleryAttributes](#)
Optional: extra gallery attributes.
- NSUInteger [matrixGalleryAttributes_Count](#)
The number of items in `matrixGalleryAttributes` without causing the array to be created.
- NSMutableDictionary< NSString *, [Detection](#) * > * [matrixGalleryDetections](#)
Optional: A list of detections that correspond to all entries in the gallery database.
- NSUInteger [matrixGalleryDetections_Count](#)
The number of items in `matrixGalleryDetections` without causing the array to be created.
- NSMutableDictionary< NSString *, [Tracklet](#) * > * [matrixGalleryTracklets](#)
Optional: A list of tracklets that correspond to all entries in the gallery database.
- NSUInteger [matrixGalleryTracklets_Count](#)
The number of items in `matrixGalleryTracklets` without causing the array to be created.
- NSMutableDictionary< NSString *, [MediaMetadata](#) * > * [matrixProbeAttributes](#)
Optional: extra probe attributes.
- NSUInteger [matrixProbeAttributes_Count](#)
The number of items in `matrixProbeAttributes` without causing the array to be created.
- NSMutableDictionary< NSString *, [Detection](#) * > * [matrixProbeDetections](#)
repeated string `matrix_probe_entry_types` = 10; repeated string `matrix_gallery_entry_types` = 11;
- NSUInteger [matrixProbeDetections_Count](#)
The number of items in `matrixProbeDetections` without causing the array to be created.

- NSMutableDictionary< NSString *, [Tracklet](#) * > * [matrixProbeTracklets](#)
Optional: A list of tracklets that correspond to all entries in the probe database.
- NSUInteger [matrixProbeTracklets_Count](#)
The number of items in `matrixProbeTracklets` without causing the array to be created.
- [BriarProgress](#) * [progress](#)
OPTIONAL: provides progress updates for progress bar display.
- BOOL [usesIntegerSubjectIdGallery](#)
DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.

5.197.1 Property Documentation

5.197.1.1 errors

- ([BriarErrors](#)*) errors [read], [write], [nonatomic], [strong]

5.197.1.2 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

Test to see if errors has been set.

5.197.1.3 hasMatchMatrix

- (BOOL) hasMatchMatrix [read], [write], [nonatomic], [assign]

Test to see if matchMatrix has been set.

5.197.1.4 hasProgress

- (BOOL) hasProgress [read], [write], [nonatomic], [assign]

Test to see if progress has been set.

5.197.1.5 matchMatrix

- ([BriarMatrix](#)*) matchMatrix [read], [write], [nonatomic], [strong]

Required: A match matrix instead of a Matchlist.

5.197.1.6 matrixGalleryAttributes

- (NSMutableDictionary<NSString*, [MediaMetadata](#)*>*) matrixGalleryAttributes [read], [write], [nonatomic], [strong]

Optional: extra gallery attributes.

5.197.1.7 matrixGalleryAttributes_Count

- (NSUInteger) matrixGalleryAttributes_Count [read], [nonatomic], [assign]

The number of items in `matrixGalleryAttributes` without causing the array to be created.

5.197.1.8 matrixGalleryDetections

- (NSMutableDictionary<NSString*, Detection*>*) matrixGalleryDetections [read], [write], [nonatomic], [strong]

Optional: A list of detections that correspond to all entries in the gallery database.

5.197.1.9 matrixGalleryDetections_Count

- (NSUInteger) matrixGalleryDetections_Count [read], [nonatomic], [assign]

The number of items in matrixGalleryDetections without causing the array to be created.

5.197.1.10 matrixGalleryTracklets

- (NSMutableDictionary<NSString*, Tracklet*>*) matrixGalleryTracklets [read], [write], [nonatomic], [strong]

Optional: A list of tracklets that correspond to all entries in the gallery database.

5.197.1.11 matrixGalleryTracklets_Count

- (NSUInteger) matrixGalleryTracklets_Count [read], [nonatomic], [assign]

The number of items in matrixGalleryTracklets without causing the array to be created.

5.197.1.12 matrixProbeAttributes

- (NSMutableDictionary<NSString*, MediaMetadata*>*) matrixProbeAttributes [read], [write], [nonatomic], [strong]

Optional: extra probe attributes.

5.197.1.13 matrixProbeAttributes_Count

- (NSUInteger) matrixProbeAttributes_Count [read], [nonatomic], [assign]

The number of items in matrixProbeAttributes without causing the array to be created.

5.197.1.14 matrixProbeDetections

- (NSMutableDictionary<NSString*, Detection*>*) matrixProbeDetections [read], [write], [nonatomic], [strong]

repeated string matrix_probe_entry_types = 10; repeated string matrix_gallery_entry_types = 11;

5.197.1.15 matrixProbeDetections_Count

- (NSUInteger) matrixProbeDetections_Count [read], [nonatomic], [assign]

The number of items in matrixProbeDetections without causing the array to be created.

5.197.1.16 matrixProbeTracklets

- (NSMutableDictionary<NSString*, Tracklet*>*) matrixProbeTracklets [read], [write], [nonatomic], [strong]

Optional: A list of tracklets that correspond to all entries in the probe database.

5.197.1.17 matrixProbeTracklets_Count

- (NSUInteger) matrixProbeTracklets_Count [read], [nonatomic], [assign]

The number of items in matrixProbeTracklets without causing the array to be created.

5.197.1.18 progress

- (BriarProgress*) progress [read], [write], [nonatomic], [strong]

OPTIONAL: provides progress updates for progress bar display.

See example code for details

5.197.1.19 usesIntegerSubjectIdGallery

- (BOOL) usesIntegerSubjectIdGallery [read], [write], [nonatomic], [assign]

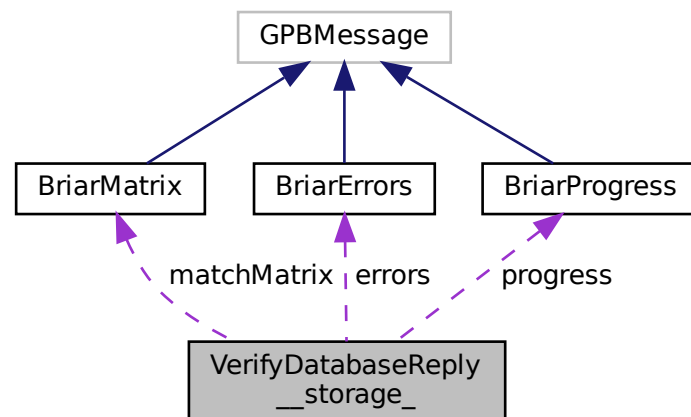
DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h

5.198 VerifyDatabaseReply__storage_ Struct Reference

Collaboration diagram for VerifyDatabaseReply__storage_:

**Protected Attributes**

- uint32_t _has_storage_ [1]
- BriarErrors * errors
- BriarMatrix * matchMatrix
- NSMutableDictionary * matrixGalleryAttributes
- NSMutableDictionary * matrixGalleryDetections
- NSMutableDictionary * matrixGalleryTracklets
- NSMutableDictionary * matrixProbeAttributes
- NSMutableDictionary * matrixProbeDetections
- NSMutableDictionary * matrixProbeTracklets
- BriarProgress * progress

5.198.1 Field Documentation

5.198.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.198.1.2 `errors`

- ([BriarErrors*](#)) `errors` [protected]

5.198.1.3 `matchMatrix`

- ([BriarMatrix*](#)) `matchMatrix` [protected]

5.198.1.4 `matrixGalleryAttributes`

- (NSMutableDictionary*) `matrixGalleryAttributes` [protected]

5.198.1.5 `matrixGalleryDetections`

- (NSMutableDictionary*) `matrixGalleryDetections` [protected]

5.198.1.6 `matrixGalleryTracklets`

- (NSMutableDictionary*) `matrixGalleryTracklets` [protected]

5.198.1.7 `matrixProbeAttributes`

- (NSMutableDictionary*) `matrixProbeAttributes` [protected]

5.198.1.8 `matrixProbeDetections`

- (NSMutableDictionary*) `matrixProbeDetections` [protected]

5.198.1.9 `matrixProbeTracklets`

- (NSMutableDictionary*) `matrixProbeTracklets` [protected]

5.198.1.10 `progress`

- ([BriarProgress*](#)) `progress` [protected]

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

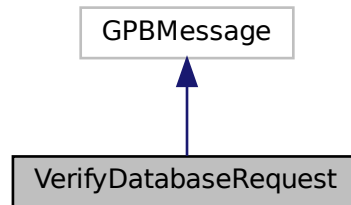
- `/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m`

5.199 VerifyDatabaseRequest Class Reference

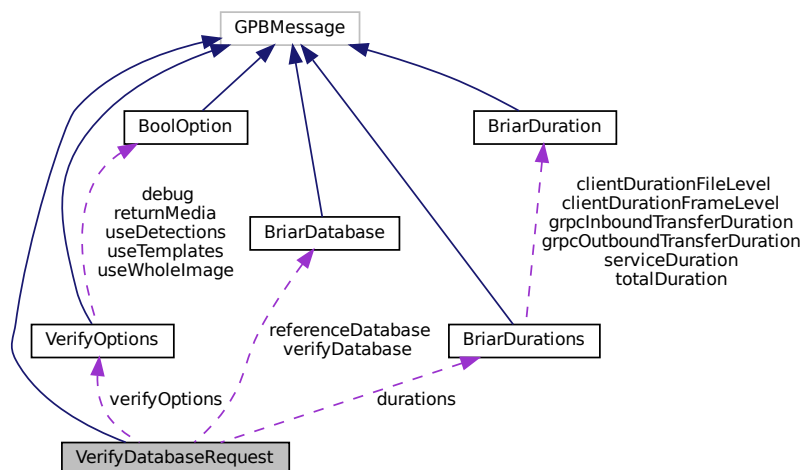
This is a search that takes a gallery database and a probe database, and searches all probes against the gallery.

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for VerifyDatabaseRequest:



Collaboration diagram for VerifyDatabaseRequest:



Properties

- **BriarDurations** * **durations**
Log the time needed to complete the request on the server.
- **BOOL** **hasDurations**
Test to see if durations has been set.
- **BOOL** **hasReferenceDatabase**
Test to see if referenceDatabase has been set.
- **BOOL** **hasVerifyDatabase**
Test to see if verifyDatabase has been set.
- **BOOL** **hasVerifyOptions**
Test to see if verifyOptions has been set.
- **NSMutableArray< NSString * >** * **probeEntryIdsArray**

OPTIONAL: the list of probe database entries to search.

- NSUInteger [probeEntryIdsArray_Count](#)

The number of items in `probeEntryIdsArray` without causing the array to be created.

- [BriarDatabase](#) * [referenceDatabase](#)

REQUIRED: Database to search.

- [BriarDatabase](#) * [verifyDatabase](#)

SELECTION 1: probe database to use as probe entries, instead of a [BriarMedia](#).

- [VerifyOptions](#) * [verifyOptions](#)

5.199.1 Detailed Description

This is a search that takes a gallery database and a probe database, and searches all probes against the gallery.

5.199.2 Property Documentation

5.199.2.1 durations

– ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.199.2.2 hasDurations

– (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if durations has been set.

5.199.2.3 hasReferenceDatabase

– (BOOL) hasReferenceDatabase [read], [write], [nonatomic], [assign]

Test to see if referenceDatabase has been set.

5.199.2.4 hasVerifyDatabase

– (BOOL) hasVerifyDatabase [read], [write], [nonatomic], [assign]

Test to see if verifyDatabase has been set.

5.199.2.5 hasVerifyOptions

– (BOOL) hasVerifyOptions [read], [write], [nonatomic], [assign]

Test to see if verifyOptions has been set.

5.199.2.6 probeEntryIdsArray

– (NSMutableArray<NSString*>*) probeEntryIdsArray [read], [write], [nonatomic], [strong]

OPTIONAL: the list of probe database entries to search.

If empty search the entire probe database.

5.199.2.7 probeEntryIdsArray_Count

– (NSUInteger) probeEntryIdsArray_Count [read], [nonatomic], [assign]

The number of items in `probeEntryIdsArray` without causing the array to be created.

5.199.2.8 referenceDatabase

- ([BriarDatabase*](#)) referenceDatabase [read], [write], [nonatomic], [strong]
 REQUIRED: Database to search.

5.199.2.9 verifyDatabase

- ([BriarDatabase*](#)) verifyDatabase [read], [write], [nonatomic], [strong]
 SELECTION 1: probe database to to use as probe entries, instead of a [BriarMedia](#).

5.199.2.10 verifyOptions

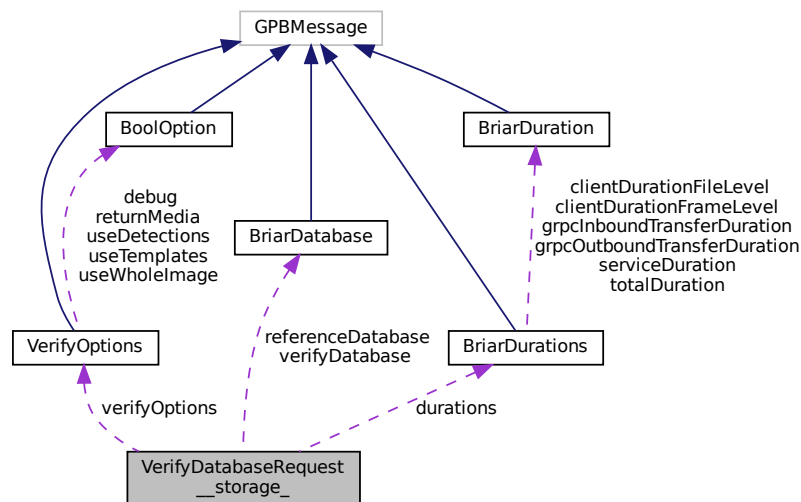
- ([VerifyOptions*](#)) verifyOptions [read], [write], [nonatomic], [strong]

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.200 VerifyDatabaseRequest__storage__ Struct Reference

Collaboration diagram for VerifyDatabaseRequest__storage__:



Protected Attributes

- `uint32_t _has_storage_ [1]`
- [BriarDurations](#) * durations
- NSMutableArray * [probeEntryIdsArray](#)
- [BriarDatabase](#) * referenceDatabase
- [BriarDatabase](#) * verifyDatabase
- [VerifyOptions](#) * verifyOptions

5.200.1 Field Documentation

5.200.1.1 `_has_storage_`

- (uint32_t `_has_storage_[1]`) [protected]

5.200.1.2 `durations`

- ([BriarDurations*](#)) `durations` [protected]

5.200.1.3 `probeEntryIdsArray`

- (NSMutableArray*) `probeEntryIdsArray` [protected]

5.200.1.4 `referenceDatabase`

- ([BriarDatabase*](#)) `referenceDatabase` [protected]

5.200.1.5 `verifyDatabase`

- ([BriarDatabase*](#)) `verifyDatabase` [protected]

5.200.1.6 `verifyOptions`

- ([VerifyOptions*](#)) `verifyOptions` [protected]

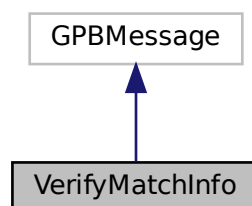
The documentation for this struct was generated from the following file:

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.m](#)

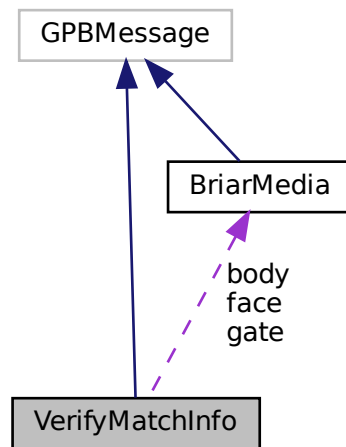
5.201 `VerifyMatchInfo` Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for `VerifyMatchInfo`:



Collaboration diagram for VerifyMatchInfo:



Properties

- [BriarMedia](#) * [body](#)
OPTIONAL: Image of Body.
- NSString * [entryIdReference](#)
OPTIONAL FOR EVALUATION: the database entry id of the reference image.
- NSString * [entryIdVerification](#)
OPTIONAL FOR EVALUATION: the database entry id of the gallery.
- [BriarMedia](#) * [face](#)
OPTIONAL: Image of face.
- [BriarMedia](#) * [gate](#)
OPTIONAL: Image(s) of gait.
- BOOL [hasBody](#)
*Test to see if *body* has been set.*
- BOOL [hasFace](#)
*Test to see if *face* has been set.*
- BOOL [hasGate](#)
*Test to see if *gate* has been set.*
- int32_t [integerSubjectIdGallery](#)
DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.
- NSString * [mediaId](#)
OPTIONAL: ID of media that probe matched to.
- float [score](#)
Match Similarity.
- NSString * [subjectIdReference](#)
OPTIONAL: subject ID of reference image matched against.
- NSString * [subjectIdVerify](#)
OPTIONAL FOR EVALUATION: subject ID of image to be verified (if known)
- NSString * [subjectName](#)

OPTIONAL: Name of subject.

- float [theoreticalMax](#)

OPTIONAL: the maximum score the algorithm can return.

- float [theoreticalMin](#)

OPTIONAL: the minimum score that the algorithm can return.

- BOOL [usesIntegerGalleryId](#)

DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.

5.201.1 Property Documentation

5.201.1.1 body

- ([BriarMedia*](#)) body [read], [write], [nonatomic], [strong]

OPTIONAL: Image of Body.

5.201.1.2 entryIdReference

- (NSString*) entryIdReference [read], [write], [nonatomic], [copy]

OPTIONAL FOR EVALUATION: the database entry id of the reference image.

5.201.1.3 entryIdVerification

- (NSString*) entryIdVerification [read], [write], [nonatomic], [copy]

OPTIONAL FOR EVALUATION: the database entry id of the gallery.

5.201.1.4 face

- ([BriarMedia*](#)) face [read], [write], [nonatomic], [strong]

OPTIONAL: Image of face.

5.201.1.5 gate

- ([BriarMedia*](#)) gate [read], [write], [nonatomic], [strong]

OPTIONAL: Image(s) of gait.

5.201.1.6 hasBody

- (BOOL) hasBody [read], [write], [nonatomic], [assign]

Test to see if body has been set.

5.201.1.7 hasFace

- (BOOL) hasFace [read], [write], [nonatomic], [assign]

Test to see if face has been set.

5.201.1.8 hasGate

- (BOOL) hasGate [read], [write], [nonatomic], [assign]

Test to see if gate has been set.

5.201.1.9 integerSubjectIdGallery

- (int32_t) integerSubjectIdGallery [read], [write], [nonatomic], [assign]

DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.

5.201.1.10 mediaId

- (NSString*) mediaId [read], [write], [nonatomic], [copy]

OPTIONAL: ID of media that probe matched to.

5.201.1.11 score

- (float) score [read], [write], [nonatomic], [assign]

Match Similarity.

5.201.1.12 subjectIdReference

- (NSString*) subjectIdReference [read], [write], [nonatomic], [copy]

OPTIONAL: subject ID of reference image matched against.

5.201.1.13 subjectIdVerify

- (NSString*) subjectIdVerify [read], [write], [nonatomic], [copy]

OPTIONAL FOR EVALUATION: subject ID of image to be verified (if known)

5.201.1.14 subjectName

- (NSString*) subjectName [read], [write], [nonatomic], [copy]

OPTIONAL: Name of subject.

5.201.1.15 theoreticalMax

- (float) theoreticalMax [read], [write], [nonatomic], [assign]

OPTIONAL: the maximum score the algorithm can return.

5.201.1.16 theoreticalMin

- (float) theoreticalMin [read], [write], [nonatomic], [assign]

OPTIONAL: the minimum score that the algorithm can return.

5.201.1.17 usesIntegerGalleryId

- (BOOL) usesIntegerGalleryId [read], [write], [nonatomic], [assign]

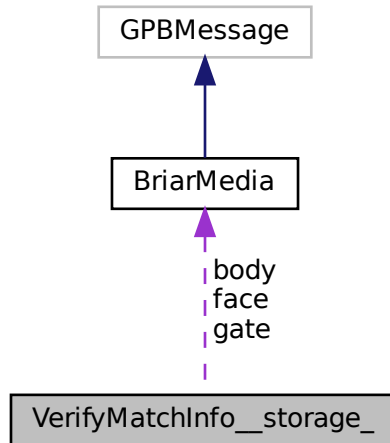
DEPRECATED: FOR LEGACY SYSTEMS ONLY indicates that the gallery ID returned is of integer form.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.202 VerifyMatchInfo__storage_ Struct Reference

Collaboration diagram for VerifyMatchInfo__storage_:



Protected Attributes

- uint32_t **_has_storage_** [1]
- BriarMedia * **body**
- NSString * **entryIdReference**
- NSString * **entryIdVerification**
- BriarMedia * **face**
- BriarMedia * **gate**
- int32_t **integerSubjectIdGallery**
- NSString * **mediaId**
- float **score**
- NSString * **subjectIdReference**
- NSString * **subjectIdVerify**
- NSString * **subjectName**
- float **theoreticalMax**
- float **theoreticalMin**

5.202.1 Field Documentation

5.202.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.202.1.2 body

```
- (BriarMedia*) body [protected]
```

5.202.1.3 entryIdReference

- (NSString*) entryIdReference [protected]

5.202.1.4 entryIdVerification

- (NSString*) entryIdVerification [protected]

5.202.1.5 face

- (BriarMedia*) face [protected]

5.202.1.6 gate

- (BriarMedia*) gate [protected]

5.202.1.7 integerSubjectIdGallery

- (int32_t) integerSubjectIdGallery [protected]

5.202.1.8 mediaId

- (NSString*) mediaId [protected]

5.202.1.9 score

- (float) score [protected]

5.202.1.10 subjectIdReference

- (NSString*) subjectIdReference [protected]

5.202.1.11 subjectIdVerify

- (NSString*) subjectIdVerify [protected]

5.202.1.12 subjectName

- (NSString*) subjectName [protected]

5.202.1.13 theoreticalMax

- (float) theoreticalMax [protected]

5.202.1.14 theoreticalMin

- (float) theoreticalMin [protected]

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

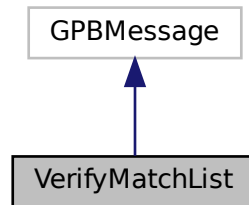
- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m

5.203 VerifyMatchList Class Reference

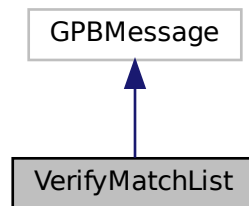
List of matches.

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for VerifyMatchList:



Collaboration diagram for VerifyMatchList:



Properties

- NSMutableArray< [VerifyMatchInfo](#) * > * [matchListArray](#)
List of verification matches.
- NSInteger [matchListArray_Count](#)
The number of items in `matchListArray` without causing the array to be created.

5.203.1 Detailed Description

List of matches.

5.203.2 Property Documentation

5.203.2.1 matchListArray

```
- (NSMutableArray<VerifyMatchInfo*>*) matchListArray [read], [write], [nonatomic], [strong]
```

List of verification matches.

5.203.2.2 matchListArray_Count

- (NSUInteger) matchListArray_Count [read], [nonatomic], [assign]

The number of items in `matchListArray` without causing the array to be created.

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

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h](#)

5.204 VerifyMatchList__storage_ Struct Reference

Protected Attributes

- uint32_t [_has_storage_](#) [1]
- NSMutableArray * [matchListArray](#)

5.204.1 Field Documentation

5.204.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.204.1.2 matchListArray

- (NSMutableArray*) matchListArray [protected]

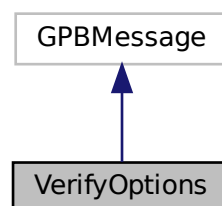
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

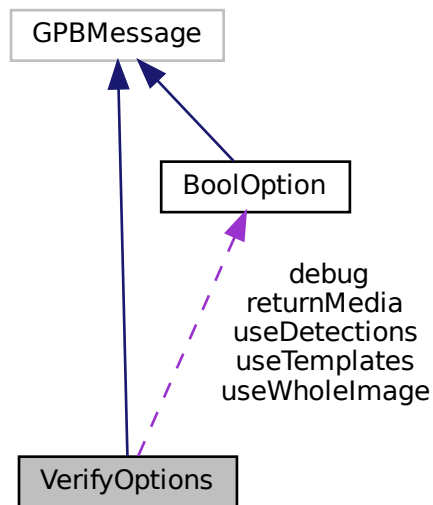
5.205 VerifyOptions Class Reference

```
#import <Briar.pbobjc.h>
```

Inheritance diagram for VerifyOptions:



Collaboration diagram for VerifyOptions:



Properties

- [BoolOption](#) * [debug](#)
Defines options to use for search operations.
- VerifyFlags [flag](#)
- BOOL [hasDebug](#)
Test to see if `debug` has been set.
- BOOL [hasReturnMedia](#)
Test to see if `returnMedia` has been set.
- BOOL [hasUseDetections](#)
Test to see if `useDetections` has been set.
- BOOL [hasUseTemplates](#)
Test to see if `useTemplates` has been set.
- BOOL [hasUseWholeImage](#)
Test to see if `useWholeImage` has been set.
- BiometricModality [modality](#)
REQUIRED: If specified use this modality for search operations.
- [BoolOption](#) * [returnMedia](#)
OPTIONAL: Should we return media (e.i.
- [BoolOption](#) * [useDetections](#)
- [BoolOption](#) * [useTemplates](#)
- [BoolOption](#) * [useWholeImage](#)

5.205.1 Property Documentation

5.205.1.1 debug

- (BoolOption*) debug [read], [write], [nonatomic], [strong]
Defines options to use for search operations.

5.205.1.2 flag

- (VerifyFlags) flag [read], [write], [nonatomic], [assign]

5.205.1.3 hasDebug

- (BOOL) hasDebug [read], [write], [nonatomic], [assign]
Test to see if debug has been set.

5.205.1.4 hasReturnMedia

- (BOOL) hasReturnMedia [read], [write], [nonatomic], [assign]
Test to see if returnMedia has been set.

5.205.1.5 hasUseDetections

- (BOOL) hasUseDetections [read], [write], [nonatomic], [assign]
Test to see if useDetections has been set.

5.205.1.6 hasUseTemplates

- (BOOL) hasUseTemplates [read], [write], [nonatomic], [assign]
Test to see if useTemplates has been set.

5.205.1.7 hasUseWholeImage

- (BOOL) hasUseWholeImage [read], [write], [nonatomic], [assign]
Test to see if useWholeImage has been set.

5.205.1.8 modality

- (BiometricModality) modality [read], [write], [nonatomic], [assign]
REQUIRED: If specified use this modality for search operations.
If "UNSPECIFIED" fuse modalities together.

5.205.1.9 returnMedia

- (BoolOption*) returnMedia [read], [write], [nonatomic], [strong]
OPTIONAL: Should we return media (e.i. cropped images) related to the detections back to the client?

5.205.1.10 useDetections

- (BoolOption*) useDetections [read], [write], [nonatomic], [strong]

5.205.1.11 useTemplates

```
- (BoolOption*) useTemplates [read], [write], [nonatomic], [strong]
```

5.205.1.12 useWholeImage

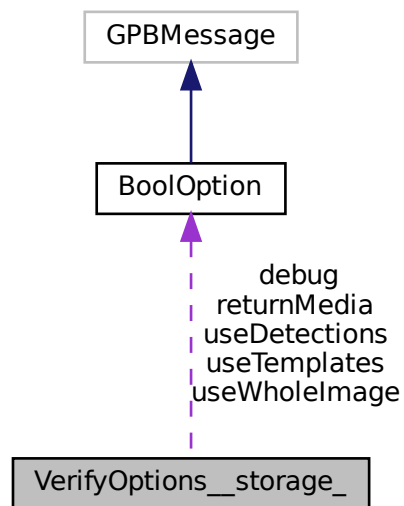
```
- (BoolOption*) useWholeImage [read], [write], [nonatomic], [strong]
```

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h

5.206 VerifyOptions__storage_ Struct Reference

Collaboration diagram for VerifyOptions__storage_:



Protected Attributes

- uint32_t [_has_storage_](#) [1]
- BoolOption * [debug](#)
- VerifyFlags [flag](#)
- BiometricModality [modality](#)
- BoolOption * [returnMedia](#)
- BoolOption * [useDetections](#)
- BoolOption * [useTemplates](#)
- BoolOption * [useWholeImage](#)

5.206.1 Field Documentation

5.206.1.1 _has_storage_

```
- (uint32_t _has_storage_[1]) [protected]
```

5.206.1.2 debug

- ([BoolOption*](#)) debug [protected]

5.206.1.3 flag

- (VerifyFlags) flag [protected]

5.206.1.4 modality

- (BiometricModality) modality [protected]

5.206.1.5 returnMedia

- ([BoolOption*](#)) returnMedia [protected]

5.206.1.6 useDetections

- ([BoolOption*](#)) useDetections [protected]

5.206.1.7 useTemplates

- ([BoolOption*](#)) useTemplates [protected]

5.206.1.8 useWholeImage

- ([BoolOption*](#)) useWholeImage [protected]

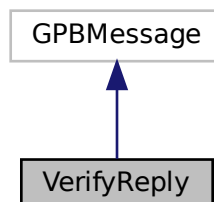
The documentation for this struct was generated from the following file:

- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m](#)

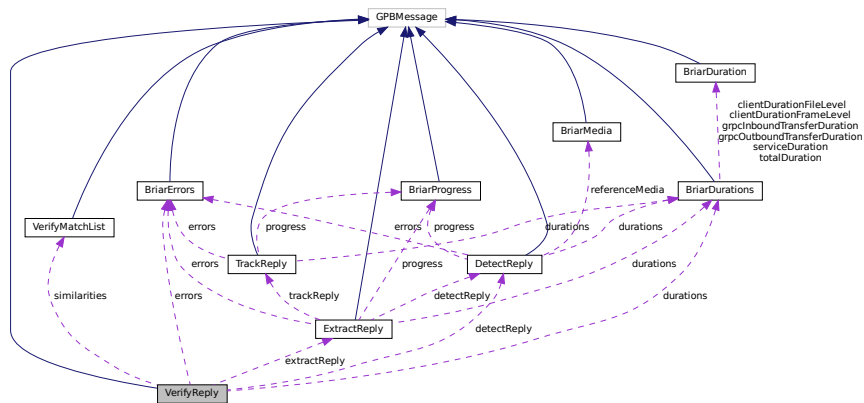
5.207 VerifyReply Class Reference

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for VerifyReply:



Collaboration diagram for VerifyReply:



Properties

- **DetectReply** * **detectReply**
OPTIONAL: A detect reply to be populated if the service is sending intermediate detection results back to the client.
- **BriarDurations** * **durations**
Log the time needed to complete the request on the server.
- **BriarErrors** * **errors**
- **ExtractReply** * **extractReply**
OPTIONAL: An extract reply to be populated if the service is sending intermediate extraction results back to the client.
- **BOOL** **hasDetectReply**
Test to see if detectReply has been set.
- **BOOL** **hasDurations**
Test to see if durations has been set.
- **BOOL** **hasErrors**
Test to see if errors has been set.
- **BOOL** **hasExtractReply**
Test to see if extractReply has been set.
- **BOOL** **hasSimilarities**
Test to see if similarities has been set.
- **BOOL** **progressOnlyReply**
REQUIRED: set to true if this is a reply only providing a progress update to the API.
- **VerifyMatchList** * **similarities**
REQUIRED: Match list showing similarities.

5.207.1 Property Documentation

5.207.1.1 detectReply

– (**DetectReply***) detectReply [read], [write], [nonatomic], [strong]

OPTIONAL: A detect reply to be populated if the service is sending intermediate detection results back to the client.

5.207.1.2 durations

- ([BriarDurations*](#)) durations [read], [write], [nonatomic], [strong]
Log the time needed to complete the request on the server.

5.207.1.3 errors

- ([BriarErrors*](#)) errors [read], [write], [nonatomic], [strong]

5.207.1.4 extractReply

- ([ExtractReply*](#)) extractReply [read], [write], [nonatomic], [strong]

OPTIONAL: An extract reply to be populated if the service is sending intermediate extraction results back to the client.

5.207.1.5 hasDetectReply

- (BOOL) hasDetectReply [read], [write], [nonatomic], [assign]

Test to see if detectReply has been set.

5.207.1.6 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if durations has been set.

5.207.1.7 hasErrors

- (BOOL) hasErrors [read], [write], [nonatomic], [assign]

Test to see if errors has been set.

5.207.1.8 hasExtractReply

- (BOOL) hasExtractReply [read], [write], [nonatomic], [assign]

Test to see if extractReply has been set.

5.207.1.9 hasSimilarities

- (BOOL) hasSimilarities [read], [write], [nonatomic], [assign]

Test to see if similarities has been set.

5.207.1.10 progressOnlyReply

- (BOOL) progressOnlyReply [read], [write], [nonatomic], [assign]

REQUIRED: set to true if this is a reply only providing a progress update to the API.

If progress_only_reply is set to True, nothing else in the reply needs to be populated

5.207.1.11 similarities

- ([VerifyMatchList*](#)) similarities [read], [write], [nonatomic], [strong]

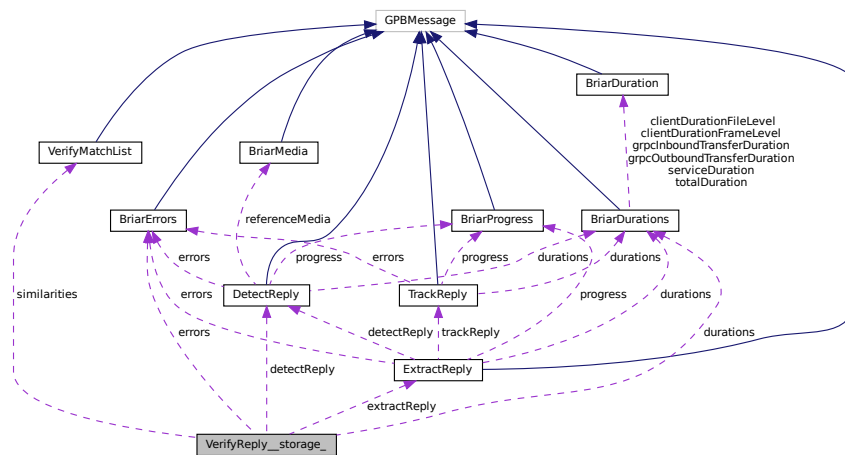
REQUIRED: Match list showing similarities.

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.h](#)

5.208 VerifyReply__storage_ Struct Reference

Collaboration diagram for VerifyReply__storage_:



Protected Attributes

- uint32_t _has_storage_[1]
- DetectReply * detectReply
- BriarDurations * durations
- BriarErrors * errors
- ExtractReply * extractReply
- VerifyMatchList * similarities

5.208.1 Field Documentation

5.208.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.208.1.2 detectReply

- (DetectReply*) detectReply [protected]

5.208.1.3 durations

- (BriarDurations*) durations [protected]

5.208.1.4 errors

- (BriarErrors*) errors [protected]

5.208.1.5 extractReply

- (ExtractReply*) extractReply [protected]

5.208.1.6 similarities

- ([VerifyMatchList*](#)) similarities [protected]

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

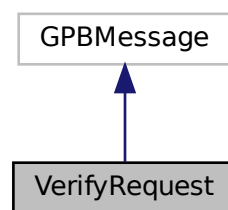
- [/home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m](#)

5.209 VerifyRequest Class Reference

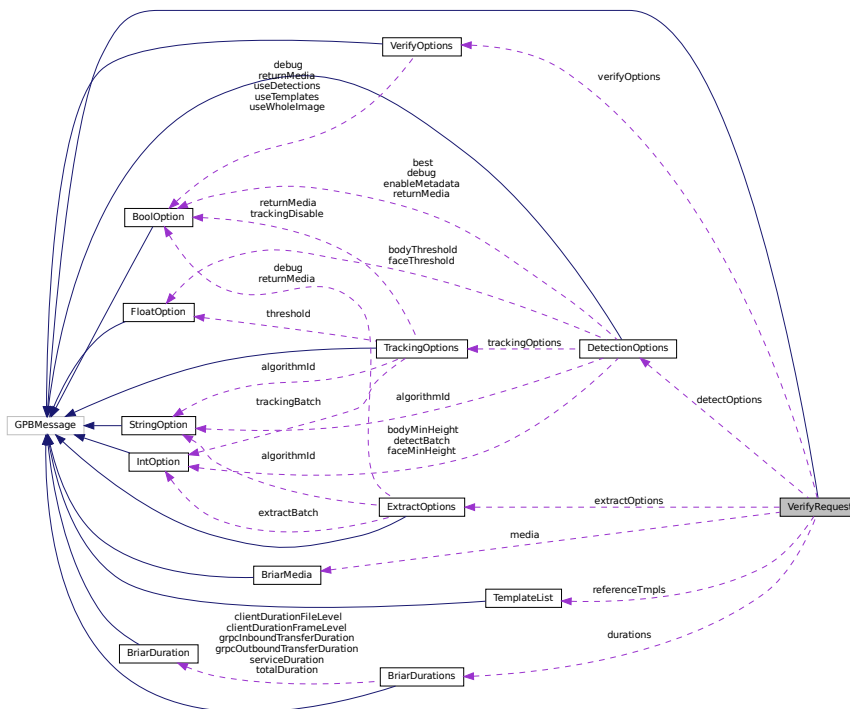
Performs 1-to-1 Media Verification in a streaming paradigm (streams reference media in first, then streams in verification media).

```
#import <BriarService.pbobjc.h>
```

Inheritance diagram for VerifyRequest:



Collaboration diagram for VerifyRequest:



Properties

- NSMutableArray< [Detection](#) * > * [detectionsArray](#)
OPTIONAL Reference Images.
- NSInteger [detectionsArray_Count](#)
The number of items in `detectionsArray` without causing the array to be created.
- [DetectionOptions](#) * [detectOptions](#)
REQUIRED options for detection.
- [BriarDurations](#) * [durations](#)
Log the time needed to complete the request on the server.
- [ExtractOptions](#) * [extractOptions](#)
REQUIRED options for extraction.
- enum VerifyFlags [flag](#)
flags to control whether to verify from templates, images, or detections+images
- BOOL [hasDetectOptions](#)
Test to see if `detectOptions` has been set.
- BOOL [hasDurations](#)
Test to see if `durations` has been set.
- BOOL [hasExtractOptions](#)
Test to see if `extractOptions` has been set.
- BOOL [hasMedia](#)
Test to see if `media` has been set.
- BOOL [hasReferenceTmpls](#)
Test to see if `referenceTmpls` has been set.
- BOOL [hasVerifyOptions](#)
Test to see if `verifyOptions` has been set.
- [BriarMedia](#) * [media](#)
REQUIRED Frames to be verified.
- [TemplateList](#) * [referenceTmpls](#)
OPTIONAL Reference Templates.
- VerifyRequest_VerifyRole [role](#)
REQUIRED set this to "reference" for all reference input, and "verify" if the given request contains media to be verified.
- [VerifyOptions](#) * [verifyOptions](#)
REQUIRED options for verification.

5.209.1 Detailed Description

Performs 1-to-1 Media Verification in a streaming paradigm (streams reference media in first, then streams in verification media).

5.209.2 Property Documentation

5.209.2.1 detectionsArray

- (NSMutableArray<[Detection](#)*>*) detectionsArray [read], [write], [nonatomic], [strong]
OPTIONAL Reference Images.

5.209.2.2 detectionsArray_Count

- (NSUInteger) detectionsArray_Count [read], [nonatomic], [assign]

The number of items in detectionsArray without causing the array to be created.

5.209.2.3 detectOptions

- (DetectionOptions*) detectOptions [read], [write], [nonatomic], [strong]

REQUIRED options for detection.

5.209.2.4 durations

- (BriarDurations*) durations [read], [write], [nonatomic], [strong]

Log the time needed to complete the request on the server.

5.209.2.5 extractOptions

- (ExtractOptions*) extractOptions [read], [write], [nonatomic], [strong]

REQUIRED options for extraction.

5.209.2.6 flag

- (enum VerifyFlags) flag [read], [write], [nonatomic], [assign]

flags to control whether to verify from templates, images, or detections+images

5.209.2.7 hasDetectOptions

- (BOOL) hasDetectOptions [read], [write], [nonatomic], [assign]

Test to see if detectOptions has been set.

5.209.2.8 hasDurations

- (BOOL) hasDurations [read], [write], [nonatomic], [assign]

Test to see if durations has been set.

5.209.2.9 hasExtractOptions

- (BOOL) hasExtractOptions [read], [write], [nonatomic], [assign]

Test to see if extractOptions has been set.

5.209.2.10 hasMedia

- (BOOL) hasMedia [read], [write], [nonatomic], [assign]

Test to see if media has been set.

5.209.2.11 hasReferenceTmpls

- (BOOL) hasReferenceTmpls [read], [write], [nonatomic], [assign]

Test to see if referenceTmpls has been set.

- VerifyRequest_VerifyRole [role](#)
- VerifyOptions * [verifyOptions](#)

5.210.1 Field Documentation

5.210.1.1 _has_storage_

- (uint32_t _has_storage_[1]) [protected]

5.210.1.2 detectionsArray

- (NSMutableArray*) detectionsArray [protected]

5.210.1.3 detectOptions

- ([DetectionOptions*](#)) detectOptions [protected]

5.210.1.4 durations

- ([BriarDurations*](#)) durations [protected]

5.210.1.5 extractOptions

- ([ExtractOptions*](#)) extractOptions [protected]

5.210.1.6 flag

- (VerifyFlags) flag [protected]

5.210.1.7 media

- ([BriarMedia*](#)) media [protected]

5.210.1.8 referenceTmpls

- ([TemplateList*](#)) referenceTmpls [protected]

5.210.1.9 role

- (VerifyRequest_VerifyRole) role [protected]

5.210.1.10 verifyOptions

- ([VerifyOptions*](#)) verifyOptions [protected]

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

- /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/[BriarService.pbobjc.m](#)

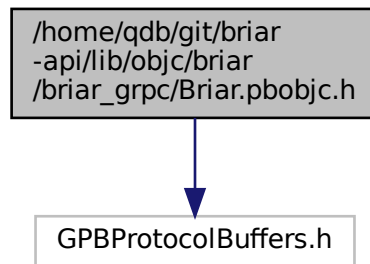
Chapter 6

File Documentation

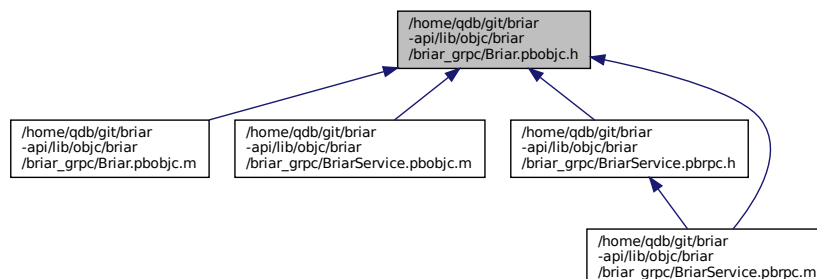
6.1 /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.h File Reference

```
#import "GPBProtocolBuffers.h"
```

Include dependency graph for Briar.pbobjc.h:



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



Data Structures

- class [APIVersion](#)

Query the implementation for the version.

- class [Attribute](#)
- class [BoolOption](#)
- class [BriarDatabase](#)
 - Stores images/detections/feature_vectors together in a searchable/referenceable data structure.*
- class [BriarDatabaseInfo](#)
 - A message used for reporting information about a specific database.*
- class [BriarDuration](#)
- class [BriarDurations](#)
 - Data structure to contain timing information for BRIAR functions.*
- class [BriarDurationsList](#)
- class [BriarMatrix](#)
 - message to hold a vector of vectors*
- class [BriarMedia](#)
- class [BriarPoint2D](#)
 - message to hold a point*
- class [BriarProgress](#)
 - message that contains progress*
- class [BriarRect](#)
 - TODO optionally break this out into briar_geometry.proto message to hold rectangle.*
- class [BriarRoot](#)
 - Exposes the extension registry for this file.*
- class [BriarVector](#)
 - message to hold a vector*
- class [ClusterConfidence](#)
 - A messageure to represent a list of cluster confidence objects.*
- class [ClusterIds](#)
 - A message to represent a list of cluster ids objects.*
- class [Detection](#)
 - Data relating to the detection of an object in an image.*
- class [DetectionOptions](#)
 - Configuration for the detection algorithm.*
- class [EnhanceOptions](#)
 - Configuration for the detection algorithm.*
- class [EnrollmentInfo](#)
 - Information about the entity being enrolled.*
- class [EnrollOptions](#)
 - Defines actions to take when enrolling into a gallery.*
- class [ExtractOptions](#)
 - Options to extract a detected subject from an image.*
- class [FloatOption](#)
- class [FrameMetadata](#)
- class [IntOption](#)
- class [MediaMetadata](#)
- class [Record](#)
- class [RecordList](#)
 - DEPRICATED: records are not used at this time.*
- class [SearchMatchInfo](#)
 - Information about a match.*
- class [SearchMatchList](#)
 - List of matches.*
- class [SearchOptions](#)

- class [StringOption](#)
- class [Template](#)
Data structure to hold signature generated from an extraction.
- class [TemplateData](#)
Mapping item to store a simple part of multipart/multimodal templates.
- class [TemplateIds](#)
A message representing a list of unique template ids.
- class [TemplateImageInput](#)
Data structure to keep image data and detections together.
- class [TemplateList](#)
List of template.
- class [TemplateListGroup](#)
List of List of templates.
- class [TrackingOptions](#)
Configuration for the tracking algorithms.
- class [Tracklet](#)
Represents a time-wise track of a detected instance.
- class [VerifyMatchInfo](#)
- class [VerifyMatchList](#)
List of matches.
- class [VerifyOptions](#)

Macros

- #define [GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS](#) 0

Functions

- [int32_t Attribute_Type_RawValue](#) ([Attribute](#) *message)
Fetches the raw value of a [Attribute](#) 's type property, even if the value was not defined by the enum at the time the code was generated.
- [GPBEnumDescriptor](#) * [BiometricModality_EnumDescriptor](#) (void)
- [BOOL BiometricModality_IsValidValue](#) ([int32_t](#) value)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- [GPBEnumDescriptor](#) * [BriarDataType_EnumDescriptor](#) (void)
- [BOOL BriarDataType_IsValidValue](#) ([int32_t](#) value)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- [GPBEnumDescriptor](#) * [BriarMedia_DataType_EnumDescriptor](#) (void)
- [BOOL BriarMedia_DataType_IsValidValue](#) ([int32_t](#) value)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- [int32_t BriarMedia_SourceType_RawValue](#) ([BriarMedia](#) *message)
Fetches the raw value of a [BriarMedia](#) 's sourceType property, even if the value was not defined by the enum at the time the code was generated.
- [int32_t BriarMedia_Type_RawValue](#) ([BriarMedia](#) *message)
Fetches the raw value of a [BriarMedia](#) 's type property, even if the value was not defined by the enum at the time the code was generated.
- [GPBEnumDescriptor](#) * [BriarServiceStatus_EnumDescriptor](#) (void)
- [BOOL BriarServiceStatus_IsValidValue](#) ([int32_t](#) value)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- [int32_t Detection_Modality_RawValue](#) ([Detection](#) *message)
Fetches the raw value of a [Detection](#) 's modality property, even if the value was not defined by the enum at the time the code was generated.
- [int32_t DetectionOptions_Modality_RawValue](#) ([DetectionOptions](#) *message)

- Fetches the raw value of a [DetectionOptions](#)'s *modality* property, even if the value was not defined by the enum at the time the code was generated.

 - `int32_t EnhanceOptions_Modality_RawValue (EnhanceOptions *message)`

Fetches the raw value of a [EnhanceOptions](#)'s *modality* property, even if the value was not defined by the enum at the time the code was generated.
- `GPBEnumDescriptor * EnrollFlags_EnumDescriptor (void)`
- `BOOL EnrollFlags_IsValidValue (int32_t value)`
- Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- `int32_t EnrollmentInfo_Type_RawValue (EnrollmentInfo *message)`
- Fetches the raw value of a [EnrollmentInfo](#)'s *type* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t EnrollOptions_EnrollFlag_RawValue (EnrollOptions *message)`
- Fetches the raw value of a [EnrollOptions](#)'s *enrollFlag* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t EnrollOptions_EntryType_RawValue (EnrollOptions *message)`
- Fetches the raw value of a [EnrollOptions](#)'s *entryType* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t EnrollOptions_Modality_RawValue (EnrollOptions *message)`
- Fetches the raw value of a [EnrollOptions](#)'s *modality* property, even if the value was not defined by the enum at the time the code was generated.
- `GPBEnumDescriptor * EntryType_EnumDescriptor (void)`
- `BOOL EntryType_IsValidValue (int32_t value)`
- Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- `GPBEnumDescriptor * ExtractFlags_EnumDescriptor (void)`
- `BOOL ExtractFlags_IsValidValue (int32_t value)`
- Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- `int32_t ExtractOptions_Flag_RawValue (ExtractOptions *message)`
- Fetches the raw value of a [ExtractOptions](#)'s *flag* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t ExtractOptions_Modality_RawValue (ExtractOptions *message)`
- Fetches the raw value of a [ExtractOptions](#)'s *modality* property, even if the value was not defined by the enum at the time the code was generated.
- `GPBEnumDescriptor * FeatureVectorType_EnumDescriptor (void)`
- `BOOL FeatureVectorType_IsValidValue (int32_t value)`
- Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- `typedef GPB_ENUM (APIVersion_FieldNumber)`
- `typedef GPB_ENUM (Attribute_FieldNumber)`
- `typedef GPB_ENUM (BiometricModality)`
- Used to specify general biometric modalities.
- `typedef GPB_ENUM (BoolOption_FieldNumber)`
- `typedef GPB_ENUM (BriarDatabase_FieldNumber)`
- `typedef GPB_ENUM (BriarDatabaseInfo_FieldNumber)`
- `typedef GPB_ENUM (BriarDataType)`
- Enumeration for data types used by Briar.
- `typedef GPB_ENUM (BriarDuration_FieldNumber)`
- `typedef GPB_ENUM (BriarDurations_FieldNumber)`
- `typedef GPB_ENUM (BriarDurationsList_FieldNumber)`
- `typedef GPB_ENUM (BriarMatrix_FieldNumber)`
- `typedef GPB_ENUM (BriarMedia_DataType)`
- Enum to specify data encoding of the image data.
- `typedef GPB_ENUM (BriarMedia_FieldNumber)`
- `typedef GPB_ENUM (BriarPoint2D_FieldNumber)`
- `typedef GPB_ENUM (BriarProgress_FieldNumber)`

- typedef [GPB_ENUM](#) (BriarRect_FieldNumber)
- NS_ASSUME_NONNULL_BEGIN typedef [GPB_ENUM](#) (BriarServiceStatus)

Representation of the service's current status.

- typedef [GPB_ENUM](#) (BriarVector_FieldNumber)
- typedef [GPB_ENUM](#) (ClusterConfidence_FieldNumber)
- typedef [GPB_ENUM](#) (ClusterIds_FieldNumber)
- typedef [GPB_ENUM](#) (Detection_FieldNumber)
- typedef [GPB_ENUM](#) (DetectionOptions_FieldNumber)
- typedef [GPB_ENUM](#) (EnhanceOptions_FieldNumber)
- typedef [GPB_ENUM](#) (EnrollFlags)

Flags tell service what mode to run in when running enroll command.

- typedef [GPB_ENUM](#) (EnrollmentInfo_FieldNumber)
- typedef [GPB_ENUM](#) (EnrollOptions_FieldNumber)
- typedef [GPB_ENUM](#) (EntryType)
- typedef [GPB_ENUM](#) (ExtractFlags)

Flag tells service what mode to run in when running an extract command.

- typedef [GPB_ENUM](#) (ExtractOptions_FieldNumber)
- typedef [GPB_ENUM](#) (FeatureVectorType)

The data type of the feature vector returned by template_get_feature_vector.

- typedef [GPB_ENUM](#) (FloatOption_FieldNumber)
- typedef [GPB_ENUM](#) (FrameMetadata_FieldNumber)
- typedef [GPB_ENUM](#) (IntOption_FieldNumber)
- typedef [GPB_ENUM](#) (MediaMetadata_FieldNumber)
- typedef [GPB_ENUM](#) (Record_FieldNumber)
- typedef [GPB_ENUM](#) (RecordList_FieldNumber)
- typedef [GPB_ENUM](#) (SearchFlags)

Tells service what mode to run in when running search command.

- typedef [GPB_ENUM](#) (SearchMatchInfo_FieldNumber)
- typedef [GPB_ENUM](#) (SearchMatchList_FieldNumber)
- typedef [GPB_ENUM](#) (SearchOptions_FieldNumber)
- typedef [GPB_ENUM](#) (StringOption_FieldNumber)
- typedef [GPB_ENUM](#) (Template_FieldNumber)
- typedef [GPB_ENUM](#) (TemplateData_FieldNumber)
- typedef [GPB_ENUM](#) (TemplateIds_FieldNumber)
- typedef [GPB_ENUM](#) (TemplateImageInput_FieldNumber)
- typedef [GPB_ENUM](#) (TemplateList_FieldNumber)
- typedef [GPB_ENUM](#) (TemplateListGroup_FieldNumber)
- typedef [GPB_ENUM](#) (TrackingOptions_FieldNumber)
- typedef [GPB_ENUM](#) (Tracklet_FieldNumber)
- typedef [GPB_ENUM](#) (VerifyFlags)

Flag tells service what mode to run in when running verify command.

- typedef [GPB_ENUM](#) (VerifyMatchInfo_FieldNumber)
- typedef [GPB_ENUM](#) (VerifyMatchList_FieldNumber)
- typedef [GPB_ENUM](#) (VerifyOptions_FieldNumber)
- int32_t [Record_EntryType_RawValue](#) ([Record](#) *message)

Fetches the raw value of a [Record](#)'s entryType property, even if the value was not defined by the enum at the time the code was generated.

- int32_t [Record_Modality_RawValue](#) ([Record](#) *message)

Fetches the raw value of a [Record](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.

- GPBEnumDescriptor * [SearchFlags_EnumDescriptor](#) (void)
- BOOL [SearchFlags_IsValidValue](#) (int32_t value)

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

- `int32_t SearchOptions_Flag_RawValue (SearchOptions *message)`
Fetches the raw value of a *SearchOptions*'s *flag* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t SearchOptions_Modality_RawValue (SearchOptions *message)`
Fetches the raw value of a *SearchOptions*'s *modality* property, even if the value was not defined by the enum at the time the code was generated.
- `void SetAttribute_Type_RawValue (Attribute *message, int32_t value)`
Sets the raw value of an *Attribute*'s *type* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetBriarMedia_SourceType_RawValue (BriarMedia *message, int32_t value)`
Sets the raw value of an *BriarMedia*'s *sourceType* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetBriarMedia_Type_RawValue (BriarMedia *message, int32_t value)`
Sets the raw value of an *BriarMedia*'s *type* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetDetection_Modality_RawValue (Detection *message, int32_t value)`
Sets the raw value of an *Detection*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetDetectionOptions_Modality_RawValue (DetectionOptions *message, int32_t value)`
Sets the raw value of an *DetectionOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetEnhanceOptions_Modality_RawValue (EnhanceOptions *message, int32_t value)`
Sets the raw value of an *EnhanceOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetEnrollmentInfo_Type_RawValue (EnrollmentInfo *message, int32_t value)`
Sets the raw value of an *EnrollmentInfo*'s *type* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetEnrollOptions_EnrollFlag_RawValue (EnrollOptions *message, int32_t value)`
Sets the raw value of an *EnrollOptions*'s *enrollFlag* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetEnrollOptions_EntryType_RawValue (EnrollOptions *message, int32_t value)`
Sets the raw value of an *EnrollOptions*'s *entryType* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetEnrollOptions_Modality_RawValue (EnrollOptions *message, int32_t value)`
Sets the raw value of an *EnrollOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetExtractOptions_Flag_RawValue (ExtractOptions *message, int32_t value)`
Sets the raw value of an *ExtractOptions*'s *flag* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetExtractOptions_Modality_RawValue (ExtractOptions *message, int32_t value)`
Sets the raw value of an *ExtractOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetRecord_EntryType_RawValue (Record *message, int32_t value)`
Sets the raw value of an *Record*'s *entryType* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetRecord_Modality_RawValue (Record *message, int32_t value)`
Sets the raw value of an *Record*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetSearchOptions_Flag_RawValue (SearchOptions *message, int32_t value)`
Sets the raw value of an *SearchOptions*'s *flag* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetSearchOptions_Modality_RawValue (SearchOptions *message, int32_t value)`
Sets the raw value of an *SearchOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

- void [SetTemplate_Modality_RawValue](#) ([Template](#) *message, int32_t value)
Sets the raw value of an [Template](#)'s modality property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- void [SetTemplateData_Modality_RawValue](#) ([TemplateData](#) *message, int32_t value)
Sets the raw value of an [TemplateData](#)'s modality property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- void [SetTrackingOptions_Modality_RawValue](#) ([TrackingOptions](#) *message, int32_t value)
Sets the raw value of an [TrackingOptions](#)'s modality property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- void [SetVerifyOptions_Flag_RawValue](#) ([VerifyOptions](#) *message, int32_t value)
Sets the raw value of an [VerifyOptions](#)'s flag property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- void [SetVerifyOptions_Modality_RawValue](#) ([VerifyOptions](#) *message, int32_t value)
Sets the raw value of an [VerifyOptions](#)'s modality property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- int32_t [Template_Modality_RawValue](#) ([Template](#) *message)
Fetches the raw value of a [Template](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.
- int32_t [TemplateData_Modality_RawValue](#) ([TemplateData](#) *message)
Fetches the raw value of a [TemplateData](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.
- int32_t [TrackingOptions_Modality_RawValue](#) ([TrackingOptions](#) *message)
Fetches the raw value of a [TrackingOptions](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.
- GPBEnumDescriptor * [VerifyFlags_EnumDescriptor](#) (void)
- BOOL [VerifyFlags_IsValidValue](#) (int32_t value)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- int32_t [VerifyOptions_Flag_RawValue](#) ([VerifyOptions](#) *message)
Fetches the raw value of a [VerifyOptions](#)'s flag property, even if the value was not defined by the enum at the time the code was generated.
- int32_t [VerifyOptions_Modality_RawValue](#) ([VerifyOptions](#) *message)
Fetches the raw value of a [VerifyOptions](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.

6.1.1 Macro Definition Documentation

6.1.1.1 GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS

```
#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0
```

6.1.2 Function Documentation

6.1.2.1 Attribute_Type_RawValue()

```
int32_t Attribute_Type_RawValue (
    Attribute * message )
```

Fetches the raw value of a [Attribute](#)'s type property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.2 BiometricModality_EnumDescriptor()

```
GPBEnumDescriptor* BiometricModality_EnumDescriptor (
    void )
```

6.1.2.3 BiometricModality_IsValidValue()

```
BOOL BiometricModality_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.4 BriarDataType_EnumDescriptor()

```
GPBEnumDescriptor* BriarDataType_EnumDescriptor (
    void )
```

6.1.2.5 BriarDataType_IsValidValue()

```
BOOL BriarDataType_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.6 BriarMedia_DataType_EnumDescriptor()

```
GPBEnumDescriptor* BriarMedia_DataType_EnumDescriptor (
    void )
```

6.1.2.7 BriarMedia_DataType_IsValidValue()

```
BOOL BriarMedia_DataType_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.8 BriarMedia_SourceType_RawValue()

```
int32_t BriarMedia_SourceType_RawValue (
    BriarMedia * message )
```

Fetches the raw value of a [BriarMedia](#)'s `sourceType` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.9 BriarMedia_Type_RawValue()

```
int32_t BriarMedia_Type_RawValue (
    BriarMedia * message )
```

Fetches the raw value of a [BriarMedia](#)'s `type` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.10 BriarServiceStatus_EnumDescriptor()

```
GPBEnumDescriptor* BriarServiceStatus_EnumDescriptor (
    void )
```

6.1.2.11 BriarServiceStatus_IsValidValue()

```
BOOL BriarServiceStatus_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.12 Detection_Modality_RawValue()

```
int32_t Detection_Modality_RawValue (
    Detection * message )
```

Fetches the raw value of a [Detection](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.13 DetectionOptions_Modality_RawValue()

```
int32_t DetectionOptions_Modality_RawValue (
    DetectionOptions * message )
```

Fetches the raw value of a [DetectionOptions](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.14 EnhanceOptions_Modality_RawValue()

```
int32_t EnhanceOptions_Modality_RawValue (
    EnhanceOptions * message )
```

Fetches the raw value of a [EnhanceOptions](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.15 EnrollFlags_EnumDescriptor()

```
GPBEnumDescriptor* EnrollFlags_EnumDescriptor (
    void )
```

6.1.2.16 EnrollFlags_IsValidValue()

```
BOOL EnrollFlags_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.17 EnrollmentInfo_Type_RawValue()

```
int32_t EnrollmentInfo_Type_RawValue (
    EnrollmentInfo * message )
```

Fetches the raw value of a [EnrollmentInfo](#)'s `type` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.18 EnrollOptions_EnrollFlag_RawValue()

```
int32_t EnrollOptions_EnrollFlag_RawValue (
    EnrollOptions * message )
```

Fetches the raw value of a [EnrollOptions](#)'s `enrollFlag` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.19 EnrollOptions_EntryType_RawValue()

```
int32_t EnrollOptions_EntryType_RawValue (
    EnrollOptions * message )
```

Fetches the raw value of a [EnrollOptions](#)'s `entryType` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.20 EnrollOptions_Modality_RawValue()

```
int32_t EnrollOptions_Modality_RawValue (
    EnrollOptions * message )
```

Fetches the raw value of a [EnrollOptions](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.21 EntryType_EnumDescriptor()

```
GPBEnumDescriptor* EntryType_EnumDescriptor (
    void )
```

6.1.2.22 EntryType_IsValidValue()

```
BOOL EntryType_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.23 ExtractFlags_EnumDescriptor()

```
GPBEnumDescriptor* ExtractFlags_EnumDescriptor (
    void )
```

6.1.2.24 ExtractFlags_IsValidValue()

```
BOOL ExtractFlags_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.25 ExtractOptions_Flag_RawValue()

```
int32_t ExtractOptions_Flag_RawValue (
    ExtractOptions * message )
```

Fetches the raw value of a [ExtractOptions](#)'s `flag` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.26 ExtractOptions_Modality_RawValue()

```
int32_t ExtractOptions_Modality_RawValue (
    ExtractOptions * message )
```

Fetches the raw value of a [ExtractOptions](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.27 FeatureVectorType_EnumDescriptor()

```
GPBEnumDescriptor* FeatureVectorType_EnumDescriptor (
    void )
```

6.1.2.28 FeatureVectorType_IsValidValue()

```
BOOL FeatureVectorType_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.29 GPB_ENUM() [1/53]

```
typedef GPB_ENUM (
    APIVersion_FieldNumber )
```

6.1.2.30 GPB_ENUM() [2/53]

```
typedef GPB_ENUM (
    Attribute_FieldNumber )
```

6.1.2.31 GPB_ENUM() [3/53]

```
typedef GPB_ENUM (
    BiometricModality )
```

Used to specify general biometric modalities.

Typical BRIAR modalities fall into three categories: FACE, BODY, or GAIT. UNSPECIFIED will typically would be the fusion of all modalities. Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

Use the fusion of all available modalities.

deprecated. Use BODY for general body appearance or features

6.1.2.32 GPB_ENUM() [4/53]

```
typedef GPB_ENUM (
    BoolOption_FieldNumber )
```

6.1.2.33 GPB_ENUM() [5/53]

```
typedef GPB_ENUM (
    BriarDatabase_FieldNumber )
```

6.1.2.34 GPB_ENUM() [6/53]

```
typedef GPB_ENUM (
    BriarDatabaseInfo_FieldNumber )
```

6.1.2.35 GPB_ENUM() [7/53]

```
typedef GPB_ENUM (
    BriarDataType )
```

Enumeration for data types used by Briar.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

stored as string

stored as string

raw data

floating point values seperated by commas

6.1.2.36 GPB_ENUM() [8/53]

```
typedef GPB_ENUM (
    BriarDuration_FieldNumber )
```

6.1.2.37 GPB_ENUM() [9/53]

```
typedef GPB_ENUM (
    BriarDurations_FieldNumber )
```

6.1.2.38 GPB_ENUM() [10/53]

```
typedef GPB_ENUM (
    BriarDurationsList_FieldNumber )
```

6.1.2.39 GPB_ENUM() [11/53]

```
typedef GPB_ENUM (
    BriarMatrix_FieldNumber )
```

6.1.2.40 GPB_ENUM() [12/53]

```
typedef GPB_ENUM (
    BriarMedia_DataType )
```

Enum to specify data encoding of the image data.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

Media data is expected to be returned to the API in this format, or MONO8

Media data is expected to be returned to the API in this format, or RGB8

Lossless Compression

No media data is provided beyond the source location - this means it is up to the performer to load and decode the media

6.1.2.41 GPB_ENUM() [13/53]

```
typedef GPB_ENUM (
    BriarMedia_FieldNumber )
```

6.1.2.42 GPB_ENUM() [14/53]

```
typedef GPB_ENUM (
    BriarPoint2D_FieldNumber )
```


6.1.2.43 GPB_ENUM() [15/53]

```
typedef GPB_ENUM (
    BriarProgress_FieldNumber )
```

6.1.2.44 GPB_ENUM() [16/53]

```
typedef GPB_ENUM (
    BriarRect_FieldNumber )
```

6.1.2.45 GPB_ENUM() [17/53]

```
NS_ASSUME_NONNULL_BEGIN typedef GPB_ENUM (
    BriarServiceStatus )
```

Representation of the service's current status.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

6.1.2.46 GPB_ENUM() [18/53]

```
typedef GPB_ENUM (
    BriarVector_FieldNumber )
```

6.1.2.47 GPB_ENUM() [19/53]

```
typedef GPB_ENUM (
    ClusterConfidence_FieldNumber )
```

6.1.2.48 GPB_ENUM() [20/53]

```
typedef GPB_ENUM (
    ClusterIds_FieldNumber )
```

6.1.2.49 GPB_ENUM() [21/53]

```
typedef GPB_ENUM (
    Detection_FieldNumber )
```

6.1.2.50 GPB_ENUM() [22/53]

```
typedef GPB_ENUM (
    DetectionOptions_FieldNumber )
```

6.1.2.51 GPB_ENUM() [23/53]

```
typedef GPB_ENUM (
    EnhanceOptions_FieldNumber )
```

6.1.2.52 GPB_ENUM() [24/53]

```
typedef GPB_ENUM (
    EnrollFlags )
```

Flags tell service what mode to run in when running enroll command.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

Do not run detections: extract from whole image

Run detection on the image, generate detections

Extract and enroll from provided detections

Enroll from provided template

6.1.2.53 GPB_ENUM() [25/53]

```
typedef GPB_ENUM (
    EnrollmentInfo_FieldNumber )
```

6.1.2.54 GPB_ENUM() [26/53]

```
typedef GPB_ENUM (
    EnrollOptions_FieldNumber )
```

6.1.2.55 GPB_ENUM() [27/53]

```
typedef GPB_ENUM (
    EntryType )
```

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

Not typically used

Entry corresponds to a person (gallery) and entries should be aggregated under a person_id

Entry corresponds to media (probe) and entries should be under a media_id

6.1.2.56 GPB_ENUM() [28/53]

```
typedef GPB_ENUM (
    ExtractFlags )
```

Flag tells service what mode to run in when running an extract command.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

6.1.2.57 GPB_ENUM() [29/53]

```
typedef GPB_ENUM (
    ExtractOptions_FieldNumber )
```

6.1.2.58 GPB_ENUM() [30/53]

```
typedef GPB_ENUM (
    FeatureVectorType )
```

The data type of the feature vector returned by template_get_feature_vector.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

6.1.2.59 GPB_ENUM() [31/53]

```
typedef GPB_ENUM (
    FloatOption_FieldNumber )
```

6.1.2.60 GPB_ENUM() [32/53]

```
typedef GPB_ENUM (
    FrameMetadata_FieldNumber )
```

6.1.2.61 GPB_ENUM() [33/53]

```
typedef GPB_ENUM (
    IntOption_FieldNumber )
```

6.1.2.62 GPB_ENUM() [34/53]

```
typedef GPB_ENUM (
    MediaMetadata_FieldNumber )
```

6.1.2.63 GPB_ENUM() [35/53]

```
typedef GPB_ENUM (
    Record_FieldNumber )
```

6.1.2.64 GPB_ENUM() [36/53]

```
typedef GPB_ENUM (
    RecordList_FieldNumber )
```

6.1.2.65 GPB_ENUM() [37/53]

```
typedef GPB_ENUM (
    SearchFlags )
```

Tells service what mode to run in when running search command.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

Create template from the entire image and use resulting template

Run detection on image, generate detections, extract templates, and search

Create templates from the provided detections

Use provided templates

6.1.2.66 GPB_ENUM() [38/53]

```
typedef GPB_ENUM (
    SearchMatchInfo_FieldNumber )
```

6.1.2.67 GPB_ENUM() [39/53]

```
typedef GPB_ENUM (
    SearchMatchList_FieldNumber )
```

6.1.2.68 GPB_ENUM() [40/53]

```
typedef GPB_ENUM (
    SearchOptions_FieldNumber )
```

6.1.2.69 GPB_ENUM() [41/53]

```
typedef GPB_ENUM (
    StringOption_FieldNumber )
```

6.1.2.70 GPB_ENUM() [42/53]

```
typedef GPB_ENUM (
    Template_FieldNumber )
```

6.1.2.71 GPB_ENUM() [43/53]

```
typedef GPB_ENUM (
    TemplateData_FieldNumber )
```

6.1.2.72 GPB_ENUM() [44/53]

```
typedef GPB_ENUM (
    TemplateIds_FieldNumber )
```

6.1.2.73 GPB_ENUM() [45/53]

```
typedef GPB_ENUM (
    TemplateImageInput_FieldNumber )
```

6.1.2.74 GPB_ENUM() [46/53]

```
typedef GPB_ENUM (
    TemplateList_FieldNumber )
```

6.1.2.75 GPB_ENUM() [47/53]

```
typedef GPB_ENUM (
    TemplateListGroup_FieldNumber )
```

6.1.2.76 GPB_ENUM() [48/53]

```
typedef GPB_ENUM (
    TrackingOptions_FieldNumber )
```

6.1.2.77 GPB_ENUM() [49/53]

```
typedef GPB_ENUM (
    Tracklet_FieldNumber )
```

6.1.2.78 GPB_ENUM() [50/53]

```
typedef GPB_ENUM (
    VerifyFlags )
```

Flag tells service what mode to run in when running verify command.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

Create template from the entire image and use resulting template

Create templates from the provided detections

Use provided templates

6.1.2.79 GPB_ENUM() [51/53]

```
typedef GPB_ENUM (
    VerifyMatchInfo_FieldNumber )
```

6.1.2.80 GPB_ENUM() [52/53]

```
typedef GPB_ENUM (
    VerifyMatchList_FieldNumber )
```

6.1.2.81 GPB_ENUM() [53/53]

```
typedef GPB_ENUM (
    VerifyOptions_FieldNumber )
```

6.1.2.82 Record_EntryType_RawValue()

```
int32_t Record_EntryType_RawValue (
    Record * message )
```

Fetches the raw value of a [Record](#)'s entryType property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.83 Record_Modality_RawValue()

```
int32_t Record_Modality_RawValue (
    Record * message )
```

Fetches the raw value of a [Record](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.84 SearchFlags_EnumDescriptor()

```
GPBEnumDescriptor* SearchFlags_EnumDescriptor (
    void )
```

6.1.2.85 SearchFlags_IsValidValue()

```
BOOL SearchFlags_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.86 SearchOptions_Flag_RawValue()

```
int32_t SearchOptions_Flag_RawValue (
    SearchOptions * message )
```

Fetches the raw value of a [SearchOptions](#)'s flag property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.87 SearchOptions_Modality_RawValue()

```
int32_t SearchOptions_Modality_RawValue (
    SearchOptions * message )
```

Fetches the raw value of a [SearchOptions](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.88 SetAttribute_Type_RawValue()

```
void SetAttribute_Type_RawValue (
    Attribute * message,
    int32_t value )
```

Sets the raw value of an [Attribute](#)'s type property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.89 SetBriarMedia_SourceType_RawValue()

```
void SetBriarMedia_SourceType_RawValue (
    BriarMedia * message,
    int32_t value )
```

Sets the raw value of an [BriarMedia](#)'s sourceType property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.90 SetBriarMedia_Type_RawValue()

```
void SetBriarMedia_Type_RawValue (
    BriarMedia * message,
    int32_t value )
```

Sets the raw value of an [BriarMedia](#)'s type property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.91 SetDetection_Modality_RawValue()

```
void SetDetection_Modality_RawValue (
    Detection * message,
    int32_t value )
```

Sets the raw value of an [Detection](#)'s modality property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.92 SetDetectionOptions_Modality_RawValue()

```
void SetDetectionOptions_Modality_RawValue (
    DetectionOptions * message,
    int32_t value )
```

Sets the raw value of an [DetectionOptions](#)'s modality property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.93 SetEnhanceOptions_Modality_RawValue()

```
void SetEnhanceOptions_Modality_RawValue (
    EnhanceOptions * message,
    int32_t value )
```

Sets the raw value of an [EnhanceOptions](#) 's `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.94 SetEnrollmentInfo_Type_RawValue()

```
void SetEnrollmentInfo_Type_RawValue (
    EnrollmentInfo * message,
    int32_t value )
```

Sets the raw value of an [EnrollmentInfo](#) 's `type` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.95 SetEnrollOptions_EnrollFlag_RawValue()

```
void SetEnrollOptions_EnrollFlag_RawValue (
    EnrollOptions * message,
    int32_t value )
```

Sets the raw value of an [EnrollOptions](#) 's `enrollFlag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.96 SetEnrollOptions_EntryType_RawValue()

```
void SetEnrollOptions_EntryType_RawValue (
    EnrollOptions * message,
    int32_t value )
```

Sets the raw value of an [EnrollOptions](#) 's `entryType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.97 SetEnrollOptions_Modality_RawValue()

```
void SetEnrollOptions_Modality_RawValue (
    EnrollOptions * message,
    int32_t value )
```

Sets the raw value of an [EnrollOptions](#) 's `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.98 SetExtractOptions_Flag_RawValue()

```
void SetExtractOptions_Flag_RawValue (
    ExtractOptions * message,
    int32_t value )
```

Sets the raw value of an [ExtractOptions](#) 's `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.99 SetExtractOptions_Modality_RawValue()

```
void SetExtractOptions_Modality_RawValue (
    ExtractOptions * message,
    int32_t value )
```

Sets the raw value of an [ExtractOptions](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.100 SetRecord_EntryType_RawValue()

```
void SetRecord_EntryType_RawValue (
    Record * message,
    int32_t value )
```

Sets the raw value of an [Record](#)'s `entryType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.101 SetRecord_Modality_RawValue()

```
void SetRecord_Modality_RawValue (
    Record * message,
    int32_t value )
```

Sets the raw value of an [Record](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.102 SetSearchOptions_Flag_RawValue()

```
void SetSearchOptions_Flag_RawValue (
    SearchOptions * message,
    int32_t value )
```

Sets the raw value of an [SearchOptions](#)'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.103 SetSearchOptions_Modality_RawValue()

```
void SetSearchOptions_Modality_RawValue (
    SearchOptions * message,
    int32_t value )
```

Sets the raw value of an [SearchOptions](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.104 SetTemplate_Modality_RawValue()

```
void SetTemplate_Modality_RawValue (
    Template * message,
    int32_t value )
```

Sets the raw value of an [Template](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.105 SetTemplateData_Modality_RawValue()

```
void SetTemplateData_Modality_RawValue (
    TemplateData * message,
    int32_t value )
```

Sets the raw value of an [TemplateData](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.106 SetTrackingOptions_Modality_RawValue()

```
void SetTrackingOptions_Modality_RawValue (
    TrackingOptions * message,
    int32_t value )
```

Sets the raw value of an `TrackingOptions`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.107 SetVerifyOptions_Flag_RawValue()

```
void SetVerifyOptions_Flag_RawValue (
    VerifyOptions * message,
    int32_t value )
```

Sets the raw value of an `VerifyOptions`'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.108 SetVerifyOptions_Modality_RawValue()

```
void SetVerifyOptions_Modality_RawValue (
    VerifyOptions * message,
    int32_t value )
```

Sets the raw value of an `VerifyOptions`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.1.2.109 Template_Modality_RawValue()

```
int32_t Template_Modality_RawValue (
    Template * message )
```

Fetches the raw value of a `Template`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.110 TemplateData_Modality_RawValue()

```
int32_t TemplateData_Modality_RawValue (
    TemplateData * message )
```

Fetches the raw value of a `TemplateData`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.111 TrackingOptions_Modality_RawValue()

```
int32_t TrackingOptions_Modality_RawValue (
    TrackingOptions * message )
```

Fetches the raw value of a `TrackingOptions`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.1.2.112 VerifyFlags_EnumDescriptor()

```
GPBEnumDescriptor* VerifyFlags_EnumDescriptor (
    void )
```

6.1.2.113 VerifyFlags_IsValidValue()

```
BOOL VerifyFlags_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.1.2.114 VerifyOptions_Flag_RawValue()

```
int32_t VerifyOptions_Flag_RawValue (
    VerifyOptions * message )
```

Fetches the raw value of a `VerifyOptions`'s `flag` property, even if the value was not defined by the enum at the time the code was generated.

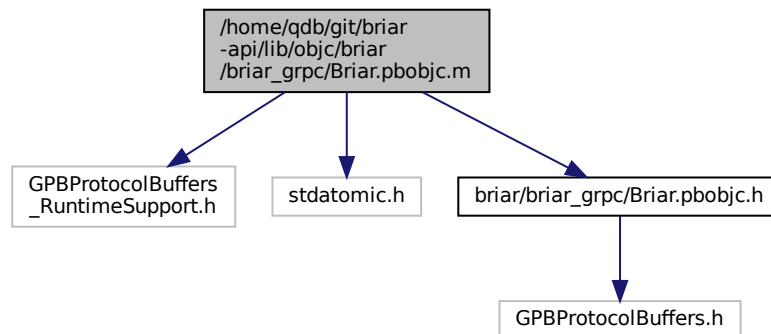
6.1.2.115 VerifyOptions_Modality_RawValue()

```
int32_t VerifyOptions_Modality_RawValue (
    VerifyOptions * message )
```

Fetches the raw value of a `VerifyOptions`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.2 /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/Briar.pbobjc.m File Reference

```
#import "GPBProtocolBuffers_RuntimeSupport.h"
#import <stdatomic.h>
#import "briar/briar_grpc/Briar.pbobjc.h"
Include dependency graph for Briar.pbobjc.m:
```



Data Structures

- struct [APIVersion__storage__](#)
- struct [Attribute__storage__](#)
- struct [BoolOption__storage__](#)
- struct [BriarDatabase__storage__](#)
- struct [BriarDatabaseInfo__storage__](#)
- struct [BriarDuration__storage__](#)
- struct [BriarDurations__storage__](#)
- struct [BriarDurationsList__storage__](#)

- struct [BriarMatrix__storage_](#)
- struct [BriarMedia__storage_](#)
- struct [BriarPoint2D__storage_](#)
- struct [BriarProgress__storage_](#)
- struct [BriarRect__storage_](#)
- struct [BriarVector__storage_](#)
- struct [ClusterConfidence__storage_](#)
- struct [ClusterIds__storage_](#)
- struct [Detection__storage_](#)
- struct [DetectionOptions__storage_](#)
- struct [EnhanceOptions__storage_](#)
- struct [EnrollmentInfo__storage_](#)
- struct [EnrollOptions__storage_](#)
- struct [ExtractOptions__storage_](#)
- struct [FloatOption__storage_](#)
- struct [FrameMetadata__storage_](#)
- struct [IntOption__storage_](#)
- struct [MediaMetadata__storage_](#)
- struct [Record__storage_](#)
- struct [RecordList__storage_](#)
- struct [SearchMatchInfo__storage_](#)
- struct [SearchMatchList__storage_](#)
- struct [SearchOptions__storage_](#)
- struct [StringOption__storage_](#)
- struct [Template__storage_](#)
- struct [TemplateData__storage_](#)
- struct [TemplateIds__storage_](#)
- struct [TemplateImageInput__storage_](#)
- struct [TemplateList__storage_](#)
- struct [TemplateListGroup__storage_](#)
- struct [TrackingOptions__storage_](#)
- struct [Tracklet__storage_](#)
- struct [VerifyMatchInfo__storage_](#)
- struct [VerifyMatchList__storage_](#)
- struct [VerifyOptions__storage_](#)

Macros

- `#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0`

Typedefs

- typedef struct [APIVersion__storage_](#) [APIVersion__storage_](#)
- typedef struct [Attribute__storage_](#) [Attribute__storage_](#)
- typedef struct [BoolOption__storage_](#) [BoolOption__storage_](#)
- typedef struct [BriarDatabase__storage_](#) [BriarDatabase__storage_](#)
- typedef struct [BriarDatabaseInfo__storage_](#) [BriarDatabaseInfo__storage_](#)
- typedef struct [BriarDuration__storage_](#) [BriarDuration__storage_](#)
- typedef struct [BriarDurations__storage_](#) [BriarDurations__storage_](#)
- typedef struct [BriarDurationsList__storage_](#) [BriarDurationsList__storage_](#)
- typedef struct [BriarMatrix__storage_](#) [BriarMatrix__storage_](#)
- typedef struct [BriarMedia__storage_](#) [BriarMedia__storage_](#)
- typedef struct [BriarPoint2D__storage_](#) [BriarPoint2D__storage_](#)
- typedef struct [BriarProgress__storage_](#) [BriarProgress__storage_](#)
- typedef struct [BriarRect__storage_](#) [BriarRect__storage_](#)

- typedef struct [BriarVector__storage_](#) [BriarVector__storage_](#)
- typedef struct [ClusterConfidence__storage_](#) [ClusterConfidence__storage_](#)
- typedef struct [ClusterIds__storage_](#) [ClusterIds__storage_](#)
- typedef struct [Detection__storage_](#) [Detection__storage_](#)
- typedef struct [DetectionOptions__storage_](#) [DetectionOptions__storage_](#)
- typedef struct [EnhanceOptions__storage_](#) [EnhanceOptions__storage_](#)
- typedef struct [EnrollmentInfo__storage_](#) [EnrollmentInfo__storage_](#)
- typedef struct [EnrollOptions__storage_](#) [EnrollOptions__storage_](#)
- typedef struct [ExtractOptions__storage_](#) [ExtractOptions__storage_](#)
- typedef struct [FloatOption__storage_](#) [FloatOption__storage_](#)
- typedef struct [FrameMetadata__storage_](#) [FrameMetadata__storage_](#)
- typedef struct [IntOption__storage_](#) [IntOption__storage_](#)
- typedef struct [MediaMetadata__storage_](#) [MediaMetadata__storage_](#)
- typedef struct [Record__storage_](#) [Record__storage_](#)
- typedef struct [RecordList__storage_](#) [RecordList__storage_](#)
- typedef struct [SearchMatchInfo__storage_](#) [SearchMatchInfo__storage_](#)
- typedef struct [SearchMatchList__storage_](#) [SearchMatchList__storage_](#)
- typedef struct [SearchOptions__storage_](#) [SearchOptions__storage_](#)
- typedef struct [StringOption__storage_](#) [StringOption__storage_](#)
- typedef struct [Template__storage_](#) [Template__storage_](#)
- typedef struct [TemplateData__storage_](#) [TemplateData__storage_](#)
- typedef struct [Templatelds__storage_](#) [Templatelds__storage_](#)
- typedef struct [TemplatelImageInput__storage_](#) [TemplatelImageInput__storage_](#)
- typedef struct [TemplateList__storage_](#) [TemplateList__storage_](#)
- typedef struct [TemplateListGroup__storage_](#) [TemplateListGroup__storage_](#)
- typedef struct [TrackingOptions__storage_](#) [TrackingOptions__storage_](#)
- typedef struct [Tracklet__storage_](#) [Tracklet__storage_](#)
- typedef struct [VerifyMatchInfo__storage_](#) [VerifyMatchInfo__storage_](#)
- typedef struct [VerifyMatchList__storage_](#) [VerifyMatchList__storage_](#)
- typedef struct [VerifyOptions__storage_](#) [VerifyOptions__storage_](#)

Functions

- int32_t [Attribute_Type_RawValue](#) ([Attribute](#) *message)
Fetches the raw value of a [Attribute](#) 's type property, even if the value was not defined by the enum at the time the code was generated.
- GPBEnumDescriptor * [BiometricModality_EnumDescriptor](#) (void)
- BOOL [BiometricModality_IsValidValue](#) (int32_t value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- GPBEnumDescriptor * [BriarDataType_EnumDescriptor](#) (void)
- BOOL [BriarDataType_IsValidValue](#) (int32_t value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- GPBEnumDescriptor * [BriarMedia_DataType_EnumDescriptor](#) (void)
- BOOL [BriarMedia_DataType_IsValidValue](#) (int32_t value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- int32_t [BriarMedia_SourceType_RawValue](#) ([BriarMedia](#) *message)
Fetches the raw value of a [BriarMedia](#) 's sourceType property, even if the value was not defined by the enum at the time the code was generated.
- int32_t [BriarMedia_Type_RawValue](#) ([BriarMedia](#) *message)
Fetches the raw value of a [BriarMedia](#) 's type property, even if the value was not defined by the enum at the time the code was generated.
- GPBEnumDescriptor * [BriarServiceStatus_EnumDescriptor](#) (void)
- BOOL [BriarServiceStatus_IsValidValue](#) (int32_t value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

- `int32_t` [Detection_Modality_RawValue](#) ([Detection](#) *message)
Fetches the raw value of a [Detection](#) 's *modality* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t` [DetectionOptions_Modality_RawValue](#) ([DetectionOptions](#) *message)
Fetches the raw value of a [DetectionOptions](#) 's *modality* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t` [EnhanceOptions_Modality_RawValue](#) ([EnhanceOptions](#) *message)
Fetches the raw value of a [EnhanceOptions](#) 's *modality* property, even if the value was not defined by the enum at the time the code was generated.
- GPBEnumDescriptor * [EnrollFlags_EnumDescriptor](#) (void)
- `BOOL` [EnrollFlags_IsValidValue](#) (`int32_t` value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- `int32_t` [EnrollmentInfo_Type_RawValue](#) ([EnrollmentInfo](#) *message)
Fetches the raw value of a [EnrollmentInfo](#) 's *type* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t` [EnrollOptions_EnrollFlag_RawValue](#) ([EnrollOptions](#) *message)
Fetches the raw value of a [EnrollOptions](#) 's *enrollFlag* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t` [EnrollOptions_EntryType_RawValue](#) ([EnrollOptions](#) *message)
Fetches the raw value of a [EnrollOptions](#) 's *entryType* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t` [EnrollOptions_Modality_RawValue](#) ([EnrollOptions](#) *message)
Fetches the raw value of a [EnrollOptions](#) 's *modality* property, even if the value was not defined by the enum at the time the code was generated.
- GPBEnumDescriptor * [EntryType_EnumDescriptor](#) (void)
- `BOOL` [EntryType_IsValidValue](#) (`int32_t` value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- GPBEnumDescriptor * [ExtractFlags_EnumDescriptor](#) (void)
- `BOOL` [ExtractFlags_IsValidValue](#) (`int32_t` value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- `int32_t` [ExtractOptions_Flag_RawValue](#) ([ExtractOptions](#) *message)
Fetches the raw value of a [ExtractOptions](#) 's *flag* property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t` [ExtractOptions_Modality_RawValue](#) ([ExtractOptions](#) *message)
Fetches the raw value of a [ExtractOptions](#) 's *modality* property, even if the value was not defined by the enum at the time the code was generated.
- GPBEnumDescriptor * [FeatureVectorType_EnumDescriptor](#) (void)
- `BOOL` [FeatureVectorType_IsValidValue](#) (`int32_t` value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- GPBObjCClassDeclaration ([Attribute](#))
- GPBObjCClassDeclaration ([BoolOption](#))
- GPBObjCClassDeclaration ([BriarDatabase](#))
- GPBObjCClassDeclaration ([BriarDuration](#))
- GPBObjCClassDeclaration ([BriarDurations](#))
- GPBObjCClassDeclaration ([BriarMatrix](#))
- GPBObjCClassDeclaration ([BriarMedia](#))
- GPBObjCClassDeclaration ([BriarPoint2D](#))
- GPBObjCClassDeclaration ([BriarRect](#))
- GPBObjCClassDeclaration ([BriarVector](#))
- GPBObjCClassDeclaration ([Detection](#))
- GPBObjCClassDeclaration ([FloatOption](#))
- GPBObjCClassDeclaration ([FrameMetadata](#))
- GPBObjCClassDeclaration ([IntOption](#))
- GPBObjCClassDeclaration ([MediaMetadata](#))

- [GPBObjCClassDeclaration](#) ([Record](#))
- [GPBObjCClassDeclaration](#) ([SearchMatchInfo](#))
- [GPBObjCClassDeclaration](#) ([StringOption](#))
- [GPBObjCClassDeclaration](#) ([Template](#))
- [GPBObjCClassDeclaration](#) ([TemplateData](#))
- [GPBObjCClassDeclaration](#) ([TemplateList](#))
- [GPBObjCClassDeclaration](#) ([TrackingOptions](#))
- [GPBObjCClassDeclaration](#) ([VerifyMatchInfo](#))
- [int32_t Record_EntryType_RawValue](#) ([Record](#) *message)
Fetches the raw value of a [Record](#)'s `entryType` property, even if the value was not defined by the enum at the time the code was generated.
- [int32_t Record_Modality_RawValue](#) ([Record](#) *message)
Fetches the raw value of a [Record](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.
- [GPBEnumDescriptor](#) * [SearchFlags_EnumDescriptor](#) (void)
- [BOOL SearchFlags_IsValidValue](#) ([int32_t](#) value__)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- [int32_t SearchOptions_Flag_RawValue](#) ([SearchOptions](#) *message)
Fetches the raw value of a [SearchOptions](#)'s `flag` property, even if the value was not defined by the enum at the time the code was generated.
- [int32_t SearchOptions_Modality_RawValue](#) ([SearchOptions](#) *message)
Fetches the raw value of a [SearchOptions](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.
- [void SetAttribute_Type_RawValue](#) ([Attribute](#) *message, [int32_t](#) value)
Sets the raw value of an [Attribute](#)'s `type` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetBriarMedia_SourceType_RawValue](#) ([BriarMedia](#) *message, [int32_t](#) value)
Sets the raw value of an [BriarMedia](#)'s `sourceType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetBriarMedia_Type_RawValue](#) ([BriarMedia](#) *message, [int32_t](#) value)
Sets the raw value of an [BriarMedia](#)'s `type` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetDetection_Modality_RawValue](#) ([Detection](#) *message, [int32_t](#) value)
Sets the raw value of an [Detection](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetDetectionOptions_Modality_RawValue](#) ([DetectionOptions](#) *message, [int32_t](#) value)
Sets the raw value of an [DetectionOptions](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetEnhanceOptions_Modality_RawValue](#) ([EnhanceOptions](#) *message, [int32_t](#) value)
Sets the raw value of an [EnhanceOptions](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetEnrollmentInfo_Type_RawValue](#) ([EnrollmentInfo](#) *message, [int32_t](#) value)
Sets the raw value of an [EnrollmentInfo](#)'s `type` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetEnrollOptions_EnrollFlag_RawValue](#) ([EnrollOptions](#) *message, [int32_t](#) value)
Sets the raw value of an [EnrollOptions](#)'s `enrollFlag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetEnrollOptions_EntryType_RawValue](#) ([EnrollOptions](#) *message, [int32_t](#) value)
Sets the raw value of an [EnrollOptions](#)'s `entryType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetEnrollOptions_Modality_RawValue](#) ([EnrollOptions](#) *message, [int32_t](#) value)
Sets the raw value of an [EnrollOptions](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- [void SetExtractOptions_Flag_RawValue](#) ([ExtractOptions](#) *message, [int32_t](#) value)

- Sets the raw value of an *ExtractOptions*'s *flag* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- void **SetExtractOptions_Modality_RawValue** (*ExtractOptions* *message, int32_t value)
 Sets the raw value of an *ExtractOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetRecord_EntryType_RawValue** (*Record* *message, int32_t value)
 Sets the raw value of an *Record*'s *entryType* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetRecord_Modality_RawValue** (*Record* *message, int32_t value)
 Sets the raw value of an *Record*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetSearchOptions_Flag_RawValue** (*SearchOptions* *message, int32_t value)
 Sets the raw value of an *SearchOptions*'s *flag* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetSearchOptions_Modality_RawValue** (*SearchOptions* *message, int32_t value)
 Sets the raw value of an *SearchOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetTemplate_Modality_RawValue** (*Template* *message, int32_t value)
 Sets the raw value of an *Template*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetTemplateData_Modality_RawValue** (*TemplateData* *message, int32_t value)
 Sets the raw value of an *TemplateData*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetTrackingOptions_Modality_RawValue** (*TrackingOptions* *message, int32_t value)
 Sets the raw value of an *TrackingOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetVerifyOptions_Flag_RawValue** (*VerifyOptions* *message, int32_t value)
 Sets the raw value of an *VerifyOptions*'s *flag* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - void **SetVerifyOptions_Modality_RawValue** (*VerifyOptions* *message, int32_t value)
 Sets the raw value of an *VerifyOptions*'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
 - int32_t **Template_Modality_RawValue** (*Template* *message)
 Fetches the raw value of a *Template*'s *modality* property, even if the value was not defined by the enum at the time the code was generated.
 - int32_t **TemplateData_Modality_RawValue** (*TemplateData* *message)
 Fetches the raw value of a *TemplateData*'s *modality* property, even if the value was not defined by the enum at the time the code was generated.
 - int32_t **TrackingOptions_Modality_RawValue** (*TrackingOptions* *message)
 Fetches the raw value of a *TrackingOptions*'s *modality* property, even if the value was not defined by the enum at the time the code was generated.
 - GPBEnumDescriptor * **VerifyFlags_EnumDescriptor** (void)
 - BOOL **VerifyFlags_IsValidValue** (int32_t value__)
 Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
 - int32_t **VerifyOptions_Flag_RawValue** (*VerifyOptions* *message)
 Fetches the raw value of a *VerifyOptions*'s *flag* property, even if the value was not defined by the enum at the time the code was generated.
 - int32_t **VerifyOptions_Modality_RawValue** (*VerifyOptions* *message)
 Fetches the raw value of a *VerifyOptions*'s *modality* property, even if the value was not defined by the enum at the time the code was generated.

6.2.1 Macro Definition Documentation

6.2.1.1 GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS

```
#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0
```

6.2.2 Typedef Documentation

6.2.2.1 APIVersion__storage_

```
typedef struct APIVersion__storage_ APIVersion__storage_
```

6.2.2.2 Attribute__storage_

```
typedef struct Attribute__storage_ Attribute__storage_
```

6.2.2.3 BoolOption__storage_

```
typedef struct BoolOption__storage_ BoolOption__storage_
```

6.2.2.4 BriarDatabase__storage_

```
typedef struct BriarDatabase__storage_ BriarDatabase__storage_
```

6.2.2.5 BriarDatabaseInfo__storage_

```
typedef struct BriarDatabaseInfo__storage_ BriarDatabaseInfo__storage_
```

6.2.2.6 BriarDuration__storage_

```
typedef struct BriarDuration__storage_ BriarDuration__storage_
```

6.2.2.7 BriarDurations__storage_

```
typedef struct BriarDurations__storage_ BriarDurations__storage_
```

6.2.2.8 BriarDurationsList__storage_

```
typedef struct BriarDurationsList__storage_ BriarDurationsList__storage_
```

6.2.2.9 BriarMatrix__storage_

```
typedef struct BriarMatrix__storage_ BriarMatrix__storage_
```

6.2.2.10 BriarMedia__storage_

```
typedef struct BriarMedia__storage_ BriarMedia__storage_
```


6.2.2.11 BriarPoint2D__storage_

```
typedef struct BriarPoint2D__storage_ BriarPoint2D__storage_
```

6.2.2.12 BriarProgress__storage_

```
typedef struct BriarProgress__storage_ BriarProgress__storage_
```

6.2.2.13 BriarRect__storage_

```
typedef struct BriarRect__storage_ BriarRect__storage_
```

6.2.2.14 BriarVector__storage_

```
typedef struct BriarVector__storage_ BriarVector__storage_
```

6.2.2.15 ClusterConfidence__storage_

```
typedef struct ClusterConfidence__storage_ ClusterConfidence__storage_
```

6.2.2.16 ClusterIds__storage_

```
typedef struct ClusterIds__storage_ ClusterIds__storage_
```

6.2.2.17 Detection__storage_

```
typedef struct Detection__storage_ Detection__storage_
```

6.2.2.18 DetectionOptions__storage_

```
typedef struct DetectionOptions__storage_ DetectionOptions__storage_
```

6.2.2.19 EnhanceOptions__storage_

```
typedef struct EnhanceOptions__storage_ EnhanceOptions__storage_
```

6.2.2.20 EnrollmentInfo__storage_

```
typedef struct EnrollmentInfo__storage_ EnrollmentInfo__storage_
```

6.2.2.21 EnrollOptions__storage_

```
typedef struct EnrollOptions__storage_ EnrollOptions__storage_
```

6.2.2.22 ExtractOptions__storage_

```
typedef struct ExtractOptions__storage_ ExtractOptions__storage_
```

6.2.2.23 FloatOption__storage_

```
typedef struct FloatOption__storage_ FloatOption__storage_
```

6.2.2.24 FrameMetadata__storage_

```
typedef struct FrameMetadata__storage_ FrameMetadata__storage_
```

6.2.2.25 IntOption__storage_

```
typedef struct IntOption__storage_ IntOption__storage_
```

6.2.2.26 MediaMetadata__storage_

```
typedef struct MediaMetadata__storage_ MediaMetadata__storage_
```

6.2.2.27 Record__storage_

```
typedef struct Record__storage_ Record__storage_
```

6.2.2.28 RecordList__storage_

```
typedef struct RecordList__storage_ RecordList__storage_
```

6.2.2.29 SearchMatchInfo__storage_

```
typedef struct SearchMatchInfo__storage_ SearchMatchInfo__storage_
```

6.2.2.30 SearchMatchList__storage_

```
typedef struct SearchMatchList__storage_ SearchMatchList__storage_
```

6.2.2.31 SearchOptions__storage_

```
typedef struct SearchOptions__storage_ SearchOptions__storage_
```

6.2.2.32 StringOption__storage_

```
typedef struct StringOption__storage_ StringOption__storage_
```

6.2.2.33 Template__storage_

```
typedef struct Template__storage_ Template__storage_
```

6.2.2.34 TemplateData__storage_

```
typedef struct TemplateData__storage_ TemplateData__storage_
```

6.2.2.35 TemplateIds__storage_

```
typedef struct TemplateIds__storage_ TemplateIds__storage_
```

6.2.2.36 TemplateImageInput__storage_

```
typedef struct TemplateImageInput__storage_ TemplateImageInput__storage_
```

6.2.2.37 TemplateList__storage_

```
typedef struct TemplateList__storage_ TemplateList__storage_
```

6.2.2.38 TemplateListGroup__storage_

```
typedef struct TemplateListGroup__storage_ TemplateListGroup__storage_
```

6.2.2.39 TrackingOptions__storage_

```
typedef struct TrackingOptions__storage_ TrackingOptions__storage_
```

6.2.2.40 Tracklet__storage_

```
typedef struct Tracklet__storage_ Tracklet__storage_
```

6.2.2.41 VerifyMatchInfo__storage_

```
typedef struct VerifyMatchInfo__storage_ VerifyMatchInfo__storage_
```

6.2.2.42 VerifyMatchList__storage_

```
typedef struct VerifyMatchList__storage_ VerifyMatchList__storage_
```

6.2.2.43 VerifyOptions__storage_

```
typedef struct VerifyOptions__storage_ VerifyOptions__storage_
```

6.2.3 Function Documentation

6.2.3.1 Attribute_Type_RawValue()

```
int32_t Attribute_Type_RawValue (
    Attribute * message )
```

Fetches the raw value of a `Attribute`'s type property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.2 BiometricModality_EnumDescriptor()

```
GPBEnumDescriptor* BiometricModality_EnumDescriptor (
    void )
```

6.2.3.3 BiometricModality_IsValidValue()

```
BOOL BiometricModality_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.4 BriarDataType_EnumDescriptor()

```
GPBEnumDescriptor* BriarDataType_EnumDescriptor (
    void )
```

6.2.3.5 BriarDataType_IsValidValue()

```
BOOL BriarDataType_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.6 BriarMedia_DataType_EnumDescriptor()

```
GPBEnumDescriptor* BriarMedia_DataType_EnumDescriptor (
    void )
```

6.2.3.7 BriarMedia_DataType_IsValidValue()

```
BOOL BriarMedia_DataType_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.8 BriarMedia_SourceType_RawValue()

```
int32_t BriarMedia_SourceType_RawValue (
    BriarMedia * message )
```

Fetches the raw value of a [BriarMedia](#)'s `sourceType` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.9 BriarMedia_Type_RawValue()

```
int32_t BriarMedia_Type_RawValue (
    BriarMedia * message )
```

Fetches the raw value of a [BriarMedia](#)'s `type` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.10 BriarServiceStatus_EnumDescriptor()

```
GPBEnumDescriptor* BriarServiceStatus_EnumDescriptor (
    void )
```

6.2.3.11 BriarServiceStatus_IsValidValue()

```
BOOL BriarServiceStatus_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.12 Detection_Modality_RawValue()

```
int32_t Detection_Modality_RawValue (
    Detection * message )
```

Fetches the raw value of a [Detection](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.13 DetectionOptions_Modality_RawValue()

```
int32_t DetectionOptions_Modality_RawValue (
    DetectionOptions * message )
```

Fetches the raw value of a [DetectionOptions](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.14 EnhanceOptions_Modality_RawValue()

```
int32_t EnhanceOptions_Modality_RawValue (
    EnhanceOptions * message )
```

Fetches the raw value of a [EnhanceOptions](#)'s modality property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.15 EnrollFlags_EnumDescriptor()

```
GPBEnumDescriptor* EnrollFlags_EnumDescriptor (
    void )
```

6.2.3.16 EnrollFlags_IsValidValue()

```
BOOL EnrollFlags_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.17 EnrollmentInfo_Type_RawValue()

```
int32_t EnrollmentInfo_Type_RawValue (
    EnrollmentInfo * message )
```

Fetches the raw value of a [EnrollmentInfo](#)'s type property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.18 EnrollOptions_EnrollFlag_RawValue()

```
int32_t EnrollOptions_EnrollFlag_RawValue (
    EnrollOptions * message )
```

Fetches the raw value of a [EnrollOptions](#)'s enrollFlag property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.19 EnrollOptions_EntryType_RawValue()

```
int32_t EnrollOptions_EntryType_RawValue (
    EnrollOptions * message )
```

Fetches the raw value of a [EnrollOptions](#)'s `entryType` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.20 EnrollOptions_Modality_RawValue()

```
int32_t EnrollOptions_Modality_RawValue (
    EnrollOptions * message )
```

Fetches the raw value of a [EnrollOptions](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.21 EntryType_EnumDescriptor()

```
GPBEnumDescriptor* EntryType_EnumDescriptor (
    void )
```

6.2.3.22 EntryType_IsValidValue()

```
BOOL EntryType_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.23 ExtractFlags_EnumDescriptor()

```
GPBEnumDescriptor* ExtractFlags_EnumDescriptor (
    void )
```

6.2.3.24 ExtractFlags_IsValidValue()

```
BOOL ExtractFlags_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.25 ExtractOptions_Flag_RawValue()

```
int32_t ExtractOptions_Flag_RawValue (
    ExtractOptions * message )
```

Fetches the raw value of a [ExtractOptions](#)'s `flag` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.26 ExtractOptions_Modality_RawValue()

```
int32_t ExtractOptions_Modality_RawValue (
    ExtractOptions * message )
```

Fetches the raw value of a [ExtractOptions](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.27 FeatureVectorType_EnumDescriptor()

```
GPBEnumDescriptor* FeatureVectorType_EnumDescriptor (
    void )
```

6.2.3.28 FeatureVectorType_IsValidValue()

```
BOOL FeatureVectorType_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.29 GPBObjCClassDeclaration() [1/23]

```
GPBObjCClassDeclaration (
    Attribute )
```

6.2.3.30 GPBObjCClassDeclaration() [2/23]

```
GPBObjCClassDeclaration (
    BoolOption )
```

6.2.3.31 GPBObjCClassDeclaration() [3/23]

```
GPBObjCClassDeclaration (
    BriarDatabase )
```

6.2.3.32 GPBObjCClassDeclaration() [4/23]

```
GPBObjCClassDeclaration (
    BriarDuration )
```

6.2.3.33 GPBObjCClassDeclaration() [5/23]

```
GPBObjCClassDeclaration (
    BriarDurations )
```

6.2.3.34 GPBObjCClassDeclaration() [6/23]

```
GPBObjCClassDeclaration (
    BriarMatrix )
```

6.2.3.35 GPBObjCClassDeclaration() [7/23]

```
GPBObjCClassDeclaration (
    BriarMedia )
```

6.2.3.36 GPBObjCClassDeclaration() [8/23]

```
GPBObjCClassDeclaration (
    BriarPoint2D )
```

6.2.3.37 GPBObjCClassDeclaration() [9/23]

```
GPBObjCClassDeclaration (
    BriarRect )
```

6.2.3.38 GPBObjCClassDeclaration() [10/23]

```
GPBObjCClassDeclaration (
    BriarVector )
```

6.2.3.39 GPBObjCClassDeclaration() [11/23]

```
GPBObjCClassDeclaration (
    Detection )
```

6.2.3.40 GPBObjCClassDeclaration() [12/23]

```
GPBObjCClassDeclaration (
    FloatOption )
```

6.2.3.41 GPBObjCClassDeclaration() [13/23]

```
GPBObjCClassDeclaration (
    FrameMetadata )
```

6.2.3.42 GPBObjCClassDeclaration() [14/23]

```
GPBObjCClassDeclaration (
    IntOption )
```

6.2.3.43 GPBObjCClassDeclaration() [15/23]

```
GPBObjCClassDeclaration (
    MediaMetadata )
```

6.2.3.44 GPBObjCClassDeclaration() [16/23]

```
GPBObjCClassDeclaration (
    Record )
```

6.2.3.45 GPBObjCClassDeclaration() [17/23]

```
GPBObjCClassDeclaration (
    SearchMatchInfo )
```

6.2.3.46 GPBObjCClassDeclaration() [18/23]

```
GPBObjCClassDeclaration (
    StringOption )
```

6.2.3.47 GPBObjCClassDeclaration() [19/23]

```
GPBObjCClassDeclaration (
    Template )
```


6.2.3.48 GPBObjCClassDeclaration() [20/23]

```
GPBObjCClassDeclaration (
    TemplateData )
```

6.2.3.49 GPBObjCClassDeclaration() [21/23]

```
GPBObjCClassDeclaration (
    TemplateList )
```

6.2.3.50 GPBObjCClassDeclaration() [22/23]

```
GPBObjCClassDeclaration (
    TrackingOptions )
```

6.2.3.51 GPBObjCClassDeclaration() [23/23]

```
GPBObjCClassDeclaration (
    VerifyMatchInfo )
```

6.2.3.52 Record_EntryType_RawValue()

```
int32_t Record_EntryType_RawValue (
    Record * message )
```

Fetches the raw value of a [Record](#)'s `entryType` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.53 Record_Modality_RawValue()

```
int32_t Record_Modality_RawValue (
    Record * message )
```

Fetches the raw value of a [Record](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.54 SearchFlags_EnumDescriptor()

```
GPBEnumDescriptor* SearchFlags_EnumDescriptor (
    void )
```

6.2.3.55 SearchFlags_IsValidValue()

```
BOOL SearchFlags_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.56 SearchOptions_Flag_RawValue()

```
int32_t SearchOptions_Flag_RawValue (
    SearchOptions * message )
```

Fetches the raw value of a [SearchOptions](#)'s `flag` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.57 SearchOptions_Modality_RawValue()

```
int32_t SearchOptions_Modality_RawValue (
    SearchOptions * message )
```

Fetches the raw value of a [SearchOptions](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.58 SetAttribute_Type_RawValue()

```
void SetAttribute_Type_RawValue (
    Attribute * message,
    int32_t value )
```

Sets the raw value of an [Attribute](#)'s `type` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.59 SetBriarMedia_SourceType_RawValue()

```
void SetBriarMedia_SourceType_RawValue (
    BriarMedia * message,
    int32_t value )
```

Sets the raw value of an [BriarMedia](#)'s `sourceType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.60 SetBriarMedia_Type_RawValue()

```
void SetBriarMedia_Type_RawValue (
    BriarMedia * message,
    int32_t value )
```

Sets the raw value of an [BriarMedia](#)'s `type` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.61 SetDetection_Modality_RawValue()

```
void SetDetection_Modality_RawValue (
    Detection * message,
    int32_t value )
```

Sets the raw value of an [Detection](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.62 SetDetectionOptions_Modality_RawValue()

```
void SetDetectionOptions_Modality_RawValue (
    DetectionOptions * message,
    int32_t value )
```

Sets the raw value of an [DetectionOptions](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.63 SetEnhanceOptions_Modality_RawValue()

```
void SetEnhanceOptions_Modality_RawValue (
    EnhanceOptions * message,
    int32_t value )
```

Sets the raw value of an [EnhanceOptions](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.64 SetEnrollmentInfo_Type_RawValue()

```
void SetEnrollmentInfo_Type_RawValue (
    EnrollmentInfo * message,
    int32_t value )
```

Sets the raw value of an `EnrollmentInfo`'s `type` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.65 SetEnrollOptions_EnrollFlag_RawValue()

```
void SetEnrollOptions_EnrollFlag_RawValue (
    EnrollOptions * message,
    int32_t value )
```

Sets the raw value of an `EnrollOptions`'s `enrollFlag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.66 SetEnrollOptions_EntryType_RawValue()

```
void SetEnrollOptions_EntryType_RawValue (
    EnrollOptions * message,
    int32_t value )
```

Sets the raw value of an `EnrollOptions`'s `entryType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.67 SetEnrollOptions_Modality_RawValue()

```
void SetEnrollOptions_Modality_RawValue (
    EnrollOptions * message,
    int32_t value )
```

Sets the raw value of an `EnrollOptions`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.68 SetExtractOptions_Flag_RawValue()

```
void SetExtractOptions_Flag_RawValue (
    ExtractOptions * message,
    int32_t value )
```

Sets the raw value of an `ExtractOptions`'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.69 SetExtractOptions_Modality_RawValue()

```
void SetExtractOptions_Modality_RawValue (
    ExtractOptions * message,
    int32_t value )
```

Sets the raw value of an `ExtractOptions`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.70 SetRecord_EntryType_RawValue()

```
void SetRecord_EntryType_RawValue (
    Record * message,
    int32_t value )
```

Sets the raw value of an [Record](#)'s `entryType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.71 SetRecord_Modality_RawValue()

```
void SetRecord_Modality_RawValue (
    Record * message,
    int32_t value )
```

Sets the raw value of an [Record](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.72 SetSearchOptions_Flag_RawValue()

```
void SetSearchOptions_Flag_RawValue (
    SearchOptions * message,
    int32_t value )
```

Sets the raw value of an [SearchOptions](#)'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.73 SetSearchOptions_Modality_RawValue()

```
void SetSearchOptions_Modality_RawValue (
    SearchOptions * message,
    int32_t value )
```

Sets the raw value of an [SearchOptions](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.74 SetTemplate_Modality_RawValue()

```
void SetTemplate_Modality_RawValue (
    Template * message,
    int32_t value )
```

Sets the raw value of an [Template](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.75 SetTemplateData_Modality_RawValue()

```
void SetTemplateData_Modality_RawValue (
    TemplateData * message,
    int32_t value )
```

Sets the raw value of an [TemplateData](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.76 SetTrackingOptions_Modality_RawValue()

```
void SetTrackingOptions_Modality_RawValue (
    TrackingOptions * message,
    int32_t value )
```

Sets the raw value of an `TrackingOptions`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.77 SetVerifyOptions_Flag_RawValue()

```
void SetVerifyOptions_Flag_RawValue (
    VerifyOptions * message,
    int32_t value )
```

Sets the raw value of an `VerifyOptions`'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.78 SetVerifyOptions_Modality_RawValue()

```
void SetVerifyOptions_Modality_RawValue (
    VerifyOptions * message,
    int32_t value )
```

Sets the raw value of an `VerifyOptions`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.2.3.79 Template_Modality_RawValue()

```
int32_t Template_Modality_RawValue (
    Template * message )
```

Fetches the raw value of a `Template`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.80 TemplateData_Modality_RawValue()

```
int32_t TemplateData_Modality_RawValue (
    TemplateData * message )
```

Fetches the raw value of a `TemplateData`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.81 TrackingOptions_Modality_RawValue()

```
int32_t TrackingOptions_Modality_RawValue (
    TrackingOptions * message )
```

Fetches the raw value of a `TrackingOptions`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.2.3.82 VerifyFlags_EnumDescriptor()

```
GPBEnumDescriptor* VerifyFlags_EnumDescriptor (
    void )
```

6.2.3.83 VerifyFlags_IsValidValue()

```
BOOL VerifyFlags_IsValidValue (
    int32_t value__ )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.2.3.84 VerifyOptions_Flag_RawValue()

```
int32_t VerifyOptions_Flag_RawValue (
    VerifyOptions * message )
```

Fetches the raw value of a `VerifyOptions`'s flag property, even if the value was not defined by the enum at the time the code was generated.

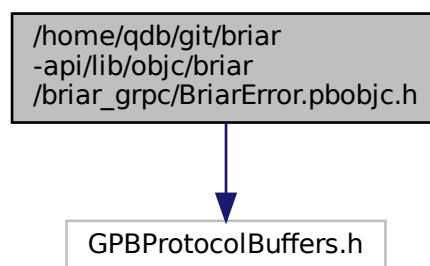
6.2.3.85 VerifyOptions_Modality_RawValue()

```
int32_t VerifyOptions_Modality_RawValue (
    VerifyOptions * message )
```

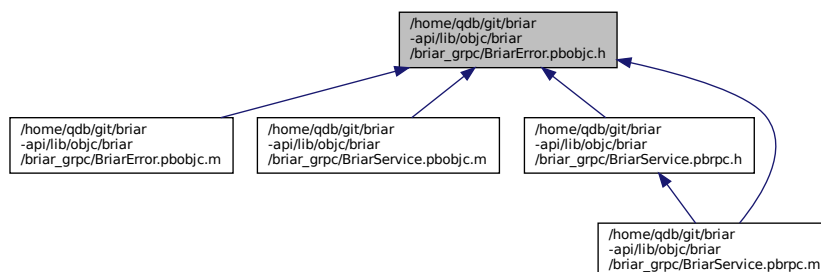
Fetches the raw value of a `VerifyOptions`'s modality property, even if the value was not defined by the enum at the time the code was generated.

6.3 /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarError.pbobjc.h File Reference

```
#import "GPBProtocolBuffers.h"
Include dependency graph for BriarError.pbobjc.h:
```



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



Data Structures

- class `BriarErrorMessage`

Human readable Error message with code.

- class [BriarErrorRoot](#)
Exposes the extension registry for this file.
- class [BriarErrors](#)
List of errors.

Macros

- `#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0`

Functions

- `GPBEnumDescriptor * BriarError_EnumDescriptor (void)`
- `BOOL BriarError_IsValidValue (int32_t value)`
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.
- `CF_EXTERN_C_BEGIN NS_ASSUME_NONNULL_BEGIN typedef GPB_ENUM (BriarError)`
Enum to define the different Briar error codes.
- `typedef GPB_ENUM (BriarErrorMessage_FieldNumber)`
- `typedef GPB_ENUM (BriarErrors_FieldNumber)`

6.3.1 Macro Definition Documentation

6.3.1.1 GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS

```
#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0
```

6.3.2 Function Documentation

6.3.2.1 BriarError_EnumDescriptor()

```
GPBEnumDescriptor* BriarError_EnumDescriptor (
    void )
```

6.3.2.2 BriarError_IsValidValue()

```
BOOL BriarError_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.3.2.3 GPB_ENUM() [1/3]

```
CF_EXTERN_C_BEGIN NS_ASSUME_NONNULL_BEGIN typedef GPB_ENUM (
    BriarError )
```

Enum to define the different Briar error codes.

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

No error

Catch all error code

An internal SDK error was encountered

Out of memory error

Invalid SDK location

Invalid SDK configuration

Incorrect license file
 Missing SDK data
 The GPU is not functioning
 An argument to a BRIAR function is invalid
 Failed to open a file
 Failed to read from a file
 Failed to write to a file
 Failed to parse a file
 Failed to decode a media file
 Out of bounds access into a buffer
 Media object is at the end of its data
 An invalid attribute key was provided
 A value for a valid attribute key is not present
[Template](#) id already exists in a gallery
[Template](#) id can't be found
 An expected file name is not given
 Incorrect template role
 Could not serialize a data structure
 Could not deserialize a data structure
 Batch call aborted early due to error
 Batch call finished, but with errors
 Callback error indicating processing should stop immediately
 Optional function return
 Utility to iterate over all errors

6.3.2.4 GPB_ENUM() [2/3]

```
typedef GPB_ENUM (
    BriarErrorMessage_FieldNumber )
```

6.3.2.5 GPB_ENUM() [3/3]

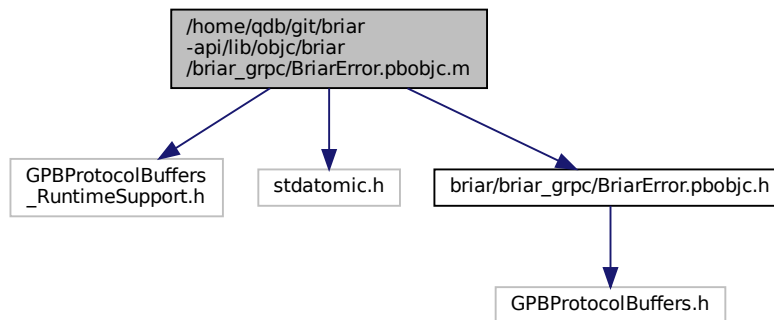
```
typedef GPB_ENUM (
    BriarErrors_FieldNumber )
```

6.4 /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarError.pbobjc.m File Reference

```

#import "GPBProtocolBuffers_RuntimeSupport.h"
#import <stdatomic.h>
#import "briar/briar_grpc/BriarError.pbobjc.h"
```


Include dependency graph for BriarError.pbobjc.m:



Data Structures

- struct [BriarErrorMessage__storage__](#)
- struct [BriarErrors__storage__](#)

Macros

- `#define` [GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS](#) 0

Typedefs

- typedef struct [BriarErrorMessage__storage__](#) [BriarErrorMessage__storage__](#)
- typedef struct [BriarErrors__storage__](#) [BriarErrors__storage__](#)

Functions

- GPBEnumDescriptor * [BriarError_EnumDescriptor](#) (void)
- BOOL [BriarError_IsValidValue](#) (int32_t value)

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.4.1 Macro Definition Documentation

6.4.1.1 GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS

```
#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0
```

6.4.2 Typedef Documentation

6.4.2.1 BriarErrorMessage__storage__

```
typedef struct BriarErrorMessage\_\_storage\_\_ BriarErrorMessage\_\_storage\_\_
```

6.4.2.2 BriarErrors__storage__

```
typedef struct BriarErrors\_\_storage\_\_ BriarErrors\_\_storage\_\_
```

6.4.3 Function Documentation

6.4.3.1 BriarError_EnumDescriptor()

```
GPBEnumDescriptor* BriarError_EnumDescriptor (
    void )
```

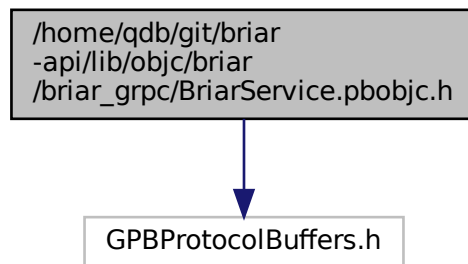
6.4.3.2 BriarError_IsValidValue()

```
BOOL BriarError_IsValidValue (
    int32_t value__ )
```

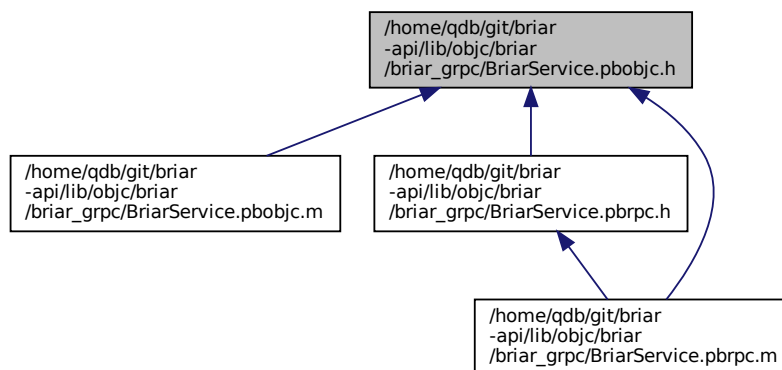
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.5 /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.h File Reference

```
#import "GPBProtocolBuffers.h"
Include dependency graph for BriarService.pbobjc.h:
```



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



Data Structures

- class [BriarServiceConfigurationReply](#)
- class [BriarServiceConfigurationRequest](#)
- class [BriarServiceRoot](#)

Exposes the extension registry for this file.

- class [ClusterReply](#)
- class [ClusterRequest](#)
- class [DatabaseCheckpointReply](#)
- class [DatabaseCheckpointRequest](#)
- class [DatabaseCheckpointSubjectRequest](#)
- class [DatabaseCreateReply](#)
- class [DatabaseCreateRequest](#)
- class [DatabaseDeleteReply](#)
- class [DatabaseDeleteRequest](#)
- class [DatabaseFinalizeReply](#)
- class [DatabaseFinalizeRequest](#)
- class [DatabaseHasEntryReply](#)
- class [DatabaseHasEntryRequest](#)
- class [DatabaseInfoReply](#)
- class [DatabaseInfoRequest](#)
- class [DatabaseInsertReply](#)
- class [DatabaseInsertRequest](#)
- class [DatabaseListentriesReply](#)
- class [DatabaseListentriesRequest](#)
- class [DatabaseListReply](#)
- class [DatabaseListRequest](#)
- class [DatabaseLoadReply](#)
- class [DatabaseLoadRequest](#)
- class [DatabaseMergeReply](#)
- class [DatabaseMergeRequest](#)
- class [DatabaseMoveEntryReply](#)
- class [DatabaseMoveEntryRequest](#)
- class [DatabaseRemoveTmpIsReply](#)
- class [DatabaseRemoveTmpIsRequest](#)
- class [DatabaseRenameReply](#)
- class [DatabaseRenameRequest](#)
- class [DatabaseRetrieveReply](#)
- class [DatabaseRetrieveRequest](#)

OPTIONAL: request that returns a databases contents to the client.

- class [DetectReply](#)
- class [DetectRequest](#)
- class [Empty](#)
- class [EnhanceReply](#)
- class [EnhanceRequest](#)
- class [EnrollCustomRequest](#)
- class [EnrollReply](#)
- class [EnrollRequest](#)
- class [ExtractReply](#)
- class [ExtractRequest](#)
- class [SearchDatabaseReply](#)
- class [SearchDatabaseRequest](#)

This is a search that takes a gallery database and a probe database, and searches all probes against the gallery.

- class [SearchReply](#)
- class [SearchRequest](#)

There are three options on how to run a search.

- class [StatusReply](#)
Returns basic status and information on the service and its version as well as additional options and features supported.
- class [StatusRequest](#)
Request status on the service.
- class [TrackReply](#)
- class [TrackRequest](#)
- class [VerifyDatabaseReply](#)
- class [VerifyDatabaseRequest](#)
This is a search that takes a gallery database and a probe database, and searches all probes against the gallery.
- class [VerifyReply](#)
- class [VerifyRequest](#)
Performs 1-to-1 Media Verification in a streaming paradigm (streams reference media in first, then streams in verification media).

Macros

- #define [GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS](#) 0

Functions

- [int32_t DetectReply_Modality_RawValue \(DetectReply *message\)](#)
Fetches the raw value of a [DetectReply](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.
- [int32_t DetectRequest_EntryType_RawValue \(DetectRequest *message\)](#)
Fetches the raw value of a [DetectRequest](#)'s `entryType` property, even if the value was not defined by the enum at the time the code was generated.
- [int32_t EnrollRequest_EnrollFlag_RawValue \(EnrollRequest *message\)](#)
Fetches the raw value of a [EnrollRequest](#)'s `enrollFlag` property, even if the value was not defined by the enum at the time the code was generated.
- [int32_t ExtractReply_Modality_RawValue \(ExtractReply *message\)](#)
Fetches the raw value of a [ExtractReply](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.
- typedef [GPB_ENUM](#) (BriarServiceConfigurationReply_FieldNumber)
- typedef [GPB_ENUM](#) (ClusterReply_FieldNumber)
- typedef [GPB_ENUM](#) (ClusterRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseCheckpointReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseCheckpointRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseCheckpointSubjectRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseCreateReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseCreateRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseDeleteReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseDeleteRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseFinalizeReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseFinalizeRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseHasEntryReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseHasEntryRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseInfoReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseInfoRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseInsertReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseInsertRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseListentriesReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseListentriesRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseListReply_FieldNumber)

- typedef [GPB_ENUM](#) (DatabaseListRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseLoadReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseLoadRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseMergeReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseMergeRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseMoveEntryReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseMoveEntryRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseRemoveTmplsReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseRemoveTmplsRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseRenameReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseRenameRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseRetrieveReply_FieldNumber)
- typedef [GPB_ENUM](#) (DatabaseRetrieveRequest_FieldNumber)
- typedef [GPB_ENUM](#) (DetectReply_FieldNumber)
- typedef [GPB_ENUM](#) (DetectRequest_FieldNumber)
- typedef [GPB_ENUM](#) (EnhanceReply_FieldNumber)
- typedef [GPB_ENUM](#) (EnhanceRequest_FieldNumber)
- typedef [GPB_ENUM](#) (EnrollCustomRequest_FieldNumber)
- typedef [GPB_ENUM](#) (EnrollReply_FieldNumber)
- typedef [GPB_ENUM](#) (EnrollRequest_FieldNumber)
- typedef [GPB_ENUM](#) (ExtractReply_FieldNumber)
- typedef [GPB_ENUM](#) (ExtractRequest_FieldNumber)
- typedef [GPB_ENUM](#) (SearchDatabaseReply_FieldNumber)
- typedef [GPB_ENUM](#) (SearchDatabaseRequest_FieldNumber)
- typedef [GPB_ENUM](#) (SearchReply_FieldNumber)
- typedef [GPB_ENUM](#) (SearchRequest_FieldNumber)
- typedef [GPB_ENUM](#) (StatusReply_FieldNumber)
- typedef [GPB_ENUM](#) (TrackReply_FieldNumber)
- typedef [GPB_ENUM](#) (TrackRequest_FieldNumber)
- typedef [GPB_ENUM](#) (VerifyDatabaseReply_FieldNumber)
- typedef [GPB_ENUM](#) (VerifyDatabaseRequest_FieldNumber)
- typedef [GPB_ENUM](#) (VerifyReply_FieldNumber)
- typedef [GPB_ENUM](#) (VerifyRequest_FieldNumber)
- NS_ASSUME_NONNULL_BEGIN typedef [GPB_ENUM](#) (VerifyRequest_VerifyRole)
- [GPB_ENUM_FWD_DECLARE](#) (BiometricModality)
- [GPB_ENUM_FWD_DECLARE](#) (BriarServiceStatus)
- [GPB_ENUM_FWD_DECLARE](#) (EnrollFlags)
- [GPB_ENUM_FWD_DECLARE](#) (EntryType)
- [GPB_ENUM_FWD_DECLARE](#) (VerifyFlags)
- void [SetDetectReply_Modality_RawValue](#) ([DetectReply](#) *message, int32_t value)

*Sets the raw value of an [DetectReply](#)'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.*
- void [SetDetectRequest_EntryType_RawValue](#) ([DetectRequest](#) *message, int32_t value)

*Sets the raw value of an [DetectRequest](#)'s *entryType* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.*
- void [SetEnrollRequest_EnrollFlag_RawValue](#) ([EnrollRequest](#) *message, int32_t value)

*Sets the raw value of an [EnrollRequest](#)'s *enrollFlag* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.*
- void [SetExtractReply_Modality_RawValue](#) ([ExtractReply](#) *message, int32_t value)

*Sets the raw value of an [ExtractReply](#)'s *modality* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.*
- void [SetStatusReply_Status_RawValue](#) ([StatusReply](#) *message, int32_t value)

*Sets the raw value of an [StatusReply](#)'s *status* property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.*

- void [SetTrackReply_Modality_RawValue](#) ([TrackReply](#) *message, int32_t value)
Sets the raw value of an [TrackReply](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- void [SetVerifyRequest_Flag_RawValue](#) ([VerifyRequest](#) *message, int32_t value)
Sets the raw value of an [VerifyRequest](#)'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- void [SetVerifyRequest_Role_RawValue](#) ([VerifyRequest](#) *message, int32_t value)
Sets the raw value of an [VerifyRequest](#)'s `role` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- int32_t [StatusReply_Status_RawValue](#) ([StatusReply](#) *message)
Fetches the raw value of a [StatusReply](#)'s `status` property, even if the value was not defined by the enum at the time the code was generated.
- int32_t [TrackReply_Modality_RawValue](#) ([TrackReply](#) *message)
Fetches the raw value of a [TrackReply](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.
- int32_t [VerifyRequest_Flag_RawValue](#) ([VerifyRequest](#) *message)
Fetches the raw value of a [VerifyRequest](#)'s `flag` property, even if the value was not defined by the enum at the time the code was generated.
- int32_t [VerifyRequest_Role_RawValue](#) ([VerifyRequest](#) *message)
Fetches the raw value of a [VerifyRequest](#)'s `role` property, even if the value was not defined by the enum at the time the code was generated.
- GPBEnumDescriptor * [VerifyRequest_VerifyRole_EnumDescriptor](#) (void)
- BOOL [VerifyRequest_VerifyRole_IsValidValue](#) (int32_t value)
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.5.1 Macro Definition Documentation

6.5.1.1 GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS

```
#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0
```

6.5.2 Function Documentation

6.5.2.1 DetectReply_Modality_RawValue()

```
int32_t DetectReply_Modality_RawValue (
    DetectReply * message )
```

Fetches the raw value of a [DetectReply](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.5.2.2 DetectRequest_EntryType_RawValue()

```
int32_t DetectRequest_EntryType_RawValue (
    DetectRequest * message )
```

Fetches the raw value of a [DetectRequest](#)'s `entryType` property, even if the value was not defined by the enum at the time the code was generated.

6.5.2.3 `EnrollRequest_EnrollFlag_RawValue()`

```
int32_t EnrollRequest_EnrollFlag_RawValue (
    EnrollRequest * message )
```

Fetches the raw value of a [EnrollRequest](#)'s `enrollFlag` property, even if the value was not defined by the enum at the time the code was generated.

6.5.2.4 `ExtractReply_Modality_RawValue()`

```
int32_t ExtractReply_Modality_RawValue (
    ExtractReply * message )
```

Fetches the raw value of a [ExtractReply](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.5.2.5 `GPB_ENUM()` [1/55]

```
typedef GPB_ENUM (
    BriarServiceConfigurationReply_FieldNumber )
```

6.5.2.6 `GPB_ENUM()` [2/55]

```
typedef GPB_ENUM (
    ClusterReply_FieldNumber )
```

6.5.2.7 `GPB_ENUM()` [3/55]

```
typedef GPB_ENUM (
    ClusterRequest_FieldNumber )
```

6.5.2.8 `GPB_ENUM()` [4/55]

```
typedef GPB_ENUM (
    DatabaseCheckpointReply_FieldNumber )
```

6.5.2.9 `GPB_ENUM()` [5/55]

```
typedef GPB_ENUM (
    DatabaseCheckpointRequest_FieldNumber )
```

6.5.2.10 `GPB_ENUM()` [6/55]

```
typedef GPB_ENUM (
    DatabaseCheckpointSubjectRequest_FieldNumber )
```

6.5.2.11 `GPB_ENUM()` [7/55]

```
typedef GPB_ENUM (
    DatabaseCreateReply_FieldNumber )
```

6.5.2.12 GPB_ENUM() [8/55]

```
typedef GPB_ENUM (
    DatabaseCreateRequest_FieldNumber )
```

6.5.2.13 GPB_ENUM() [9/55]

```
typedef GPB_ENUM (
    DatabaseDeleteReply_FieldNumber )
```

6.5.2.14 GPB_ENUM() [10/55]

```
typedef GPB_ENUM (
    DatabaseDeleteRequest_FieldNumber )
```

6.5.2.15 GPB_ENUM() [11/55]

```
typedef GPB_ENUM (
    DatabaseFinalizeReply_FieldNumber )
```

6.5.2.16 GPB_ENUM() [12/55]

```
typedef GPB_ENUM (
    DatabaseFinalizeRequest_FieldNumber )
```

6.5.2.17 GPB_ENUM() [13/55]

```
typedef GPB_ENUM (
    DatabaseHasEntryReply_FieldNumber )
```

6.5.2.18 GPB_ENUM() [14/55]

```
typedef GPB_ENUM (
    DatabaseHasEntryRequest_FieldNumber )
```

6.5.2.19 GPB_ENUM() [15/55]

```
typedef GPB_ENUM (
    DatabaseInfoReply_FieldNumber )
```

6.5.2.20 GPB_ENUM() [16/55]

```
typedef GPB_ENUM (
    DatabaseInfoRequest_FieldNumber )
```

6.5.2.21 GPB_ENUM() [17/55]

```
typedef GPB_ENUM (
    DatabaseInsertReply_FieldNumber )
```


6.5.2.22 GPB_ENUM() [18/55]

```
typedef GPB_ENUM (
    DatabaseInsertRequest_FieldNumber )
```

6.5.2.23 GPB_ENUM() [19/55]

```
typedef GPB_ENUM (
    DatabaseListentriesReply_FieldNumber )
```

6.5.2.24 GPB_ENUM() [20/55]

```
typedef GPB_ENUM (
    DatabaseListentriesRequest_FieldNumber )
```

6.5.2.25 GPB_ENUM() [21/55]

```
typedef GPB_ENUM (
    DatabaseListReply_FieldNumber )
```

6.5.2.26 GPB_ENUM() [22/55]

```
typedef GPB_ENUM (
    DatabaseListRequest_FieldNumber )
```

6.5.2.27 GPB_ENUM() [23/55]

```
typedef GPB_ENUM (
    DatabaseLoadReply_FieldNumber )
```

6.5.2.28 GPB_ENUM() [24/55]

```
typedef GPB_ENUM (
    DatabaseLoadRequest_FieldNumber )
```

6.5.2.29 GPB_ENUM() [25/55]

```
typedef GPB_ENUM (
    DatabaseMergeReply_FieldNumber )
```

6.5.2.30 GPB_ENUM() [26/55]

```
typedef GPB_ENUM (
    DatabaseMergeRequest_FieldNumber )
```

6.5.2.31 GPB_ENUM() [27/55]

```
typedef GPB_ENUM (
    DatabaseMoveEntryReply_FieldNumber )
```

6.5.2.32 GPB_ENUM() [28/55]

```
typedef GPB_ENUM (
    DatabaseMoveEntryRequest_FieldNumber )
```

6.5.2.33 GPB_ENUM() [29/55]

```
typedef GPB_ENUM (
    DatabaseRemoveTmplsReply_FieldNumber )
```

6.5.2.34 GPB_ENUM() [30/55]

```
typedef GPB_ENUM (
    DatabaseRemoveTmplsRequest_FieldNumber )
```

6.5.2.35 GPB_ENUM() [31/55]

```
typedef GPB_ENUM (
    DatabaseRenameReply_FieldNumber )
```

6.5.2.36 GPB_ENUM() [32/55]

```
typedef GPB_ENUM (
    DatabaseRenameRequest_FieldNumber )
```

6.5.2.37 GPB_ENUM() [33/55]

```
typedef GPB_ENUM (
    DatabaseRetrieveReply_FieldNumber )
```

6.5.2.38 GPB_ENUM() [34/55]

```
typedef GPB_ENUM (
    DatabaseRetrieveRequest_FieldNumber )
```

6.5.2.39 GPB_ENUM() [35/55]

```
typedef GPB_ENUM (
    DetectReply_FieldNumber )
```

6.5.2.40 GPB_ENUM() [36/55]

```
typedef GPB_ENUM (
    DetectRequest_FieldNumber )
```

6.5.2.41 GPB_ENUM() [37/55]

```
typedef GPB_ENUM (
    EnhanceReply_FieldNumber )
```

6.5.2.42 GPB_ENUM() [38/55]

```
typedef GPB_ENUM (
    EnhanceRequest_FieldNumber )
```

6.5.2.43 GPB_ENUM() [39/55]

```
typedef GPB_ENUM (
    EnrollCustomRequest_FieldNumber )
```

6.5.2.44 GPB_ENUM() [40/55]

```
typedef GPB_ENUM (
    EnrollReply_FieldNumber )
```

6.5.2.45 GPB_ENUM() [41/55]

```
typedef GPB_ENUM (
    EnrollRequest_FieldNumber )
```

6.5.2.46 GPB_ENUM() [42/55]

```
typedef GPB_ENUM (
    ExtractReply_FieldNumber )
```

6.5.2.47 GPB_ENUM() [43/55]

```
typedef GPB_ENUM (
    ExtractRequest_FieldNumber )
```

6.5.2.48 GPB_ENUM() [44/55]

```
typedef GPB_ENUM (
    SearchDatabaseReply_FieldNumber )
```

6.5.2.49 GPB_ENUM() [45/55]

```
typedef GPB_ENUM (
    SearchDatabaseRequest_FieldNumber )
```

6.5.2.50 GPB_ENUM() [46/55]

```
typedef GPB_ENUM (
    SearchReply_FieldNumber )
```

6.5.2.51 GPB_ENUM() [47/55]

```
typedef GPB_ENUM (
    SearchRequest_FieldNumber )
```

6.5.2.52 GPB_ENUM() [48/55]

```
typedef GPB_ENUM (
    StatusReply_FieldNumber )
```

6.5.2.53 GPB_ENUM() [49/55]

```
typedef GPB_ENUM (
    TrackReply_FieldNumber )
```

6.5.2.54 GPB_ENUM() [50/55]

```
typedef GPB_ENUM (
    TrackRequest_FieldNumber )
```

6.5.2.55 GPB_ENUM() [51/55]

```
typedef GPB_ENUM (
    VerifyDatabaseReply_FieldNumber )
```

6.5.2.56 GPB_ENUM() [52/55]

```
typedef GPB_ENUM (
    VerifyDatabaseRequest_FieldNumber )
```

6.5.2.57 GPB_ENUM() [53/55]

```
typedef GPB_ENUM (
    VerifyReply_FieldNumber )
```

6.5.2.58 GPB_ENUM() [54/55]

```
typedef GPB_ENUM (
    VerifyRequest_FieldNumber )
```

6.5.2.59 GPB_ENUM() [55/55]

```
NS_ASSUME_NONNULL_BEGIN typedef GPB_ENUM (
    VerifyRequest_VerifyRole )
```

Value used if any message's field encounters a value that is not defined by this enum. The message will also have C functions to get/set the rawValue of the field.

6.5.2.60 GPB_ENUM_FWD_DECLARE() [1/5]

```
GPB_ENUM_FWD_DECLARE (
    BiometricModality )
```

6.5.2.61 GPB_ENUM_FWD_DECLARE() [2/5]

```
GPB_ENUM_FWD_DECLARE (
    BriarServiceStatus )
```

6.5.2.62 GPB_ENUM_FWD_DECLARE() [3/5]

```
GPB_ENUM_FWD_DECLARE (
    EnrollFlags )
```

6.5.2.63 GPB_ENUM_FWD_DECLARE() [4/5]

```
GPB_ENUM_FWD_DECLARE (
    EntryType )
```

6.5.2.64 GPB_ENUM_FWD_DECLARE() [5/5]

```
GPB_ENUM_FWD_DECLARE (
    VerifyFlags )
```

6.5.2.65 SetDetectReply_Modality_RawValue()

```
void SetDetectReply_Modality_RawValue (
    DetectReply * message,
    int32_t value )
```

Sets the raw value of an [DetectReply](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.5.2.66 SetDetectRequest_EntryType_RawValue()

```
void SetDetectRequest_EntryType_RawValue (
    DetectRequest * message,
    int32_t value )
```

Sets the raw value of an [DetectRequest](#)'s `entryType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.5.2.67 SetEnrollRequest_EnrollFlag_RawValue()

```
void SetEnrollRequest_EnrollFlag_RawValue (
    EnrollRequest * message,
    int32_t value )
```

Sets the raw value of an [EnrollRequest](#)'s `enrollFlag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.5.2.68 SetExtractReply_Modality_RawValue()

```
void SetExtractReply_Modality_RawValue (
    ExtractReply * message,
    int32_t value )
```

Sets the raw value of an [ExtractReply](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.5.2.69 SetStatusReply_Status_RawValue()

```
void SetStatusReply_Status_RawValue (
    StatusReply * message,
    int32_t value )
```

Sets the raw value of an `StatusReply`'s `status` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.5.2.70 SetTrackReply_Modality_RawValue()

```
void SetTrackReply_Modality_RawValue (
    TrackReply * message,
    int32_t value )
```

Sets the raw value of an `TrackReply`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.5.2.71 SetVerifyRequest_Flag_RawValue()

```
void SetVerifyRequest_Flag_RawValue (
    VerifyRequest * message,
    int32_t value )
```

Sets the raw value of an `VerifyRequest`'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.5.2.72 SetVerifyRequest_Role_RawValue()

```
void SetVerifyRequest_Role_RawValue (
    VerifyRequest * message,
    int32_t value )
```

Sets the raw value of an `VerifyRequest`'s `role` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.5.2.73 StatusReply_Status_RawValue()

```
int32_t StatusReply_Status_RawValue (
    StatusReply * message )
```

Fetches the raw value of a `StatusReply`'s `status` property, even if the value was not defined by the enum at the time the code was generated.

6.5.2.74 TrackReply_Modality_RawValue()

```
int32_t TrackReply_Modality_RawValue (
    TrackReply * message )
```

Fetches the raw value of a `TrackReply`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.5.2.75 VerifyRequest_Flag_RawValue()

```
int32_t VerifyRequest_Flag_RawValue (
    VerifyRequest * message )
```

Fetches the raw value of a `VerifyRequest`'s `flag` property, even if the value was not defined by the enum at the time the code was generated.

6.5.2.76 VerifyRequest_Role_RawValue()

```
int32_t VerifyRequest_Role_RawValue (
    VerifyRequest * message )
```

Fetches the raw value of a `VerifyRequest`'s `role` property, even if the value was not defined by the enum at the time the code was generated.

6.5.2.77 `VerifyRequest_VerifyRole_EnumDescriptor()`

```
GPBEnumDescriptor* VerifyRequest_VerifyRole_EnumDescriptor (
    void )
```

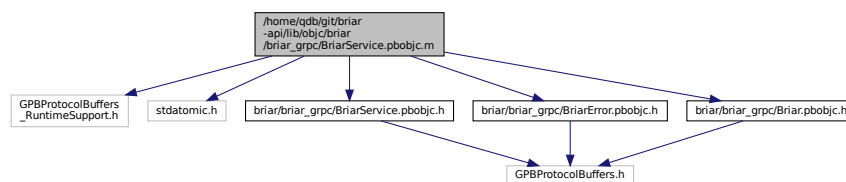
6.5.2.78 `VerifyRequest_VerifyRole_IsValidValue()`

```
BOOL VerifyRequest_VerifyRole_IsValidValue (
    int32_t value )
```

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.6 /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbobjc.m File Reference

```
#import "GPBProtocolBuffers_RuntimeSupport.h"
#import <stdatomic.h>
#import "briar/briar_grpc/BriarService.pbobjc.h"
#import "briar/briar_grpc/BriarError.pbobjc.h"
#import "briar/briar_grpc/Briar.pbobjc.h"
Include dependency graph for BriarService.pbobjc.m:
```



Data Structures

- struct [BriarServiceConfigurationReply__storage__](#)
- struct [BriarServiceConfigurationRequest__storage__](#)
- struct [ClusterReply__storage__](#)
- struct [ClusterRequest__storage__](#)
- struct [DatabaseCheckpointReply__storage__](#)
- struct [DatabaseCheckpointRequest__storage__](#)
- struct [DatabaseCheckpointSubjectRequest__storage__](#)
- struct [DatabaseCreateReply__storage__](#)
- struct [DatabaseCreateRequest__storage__](#)
- struct [DatabaseDeleteReply__storage__](#)
- struct [DatabaseDeleteRequest__storage__](#)
- struct [DatabaseFinalizeReply__storage__](#)
- struct [DatabaseFinalizeRequest__storage__](#)
- struct [DatabaseHasEntryReply__storage__](#)
- struct [DatabaseHasEntryRequest__storage__](#)
- struct [DatabaseInfoReply__storage__](#)
- struct [DatabaseInfoRequest__storage__](#)
- struct [DatabaseInsertReply__storage__](#)

- struct [DatabaseInsertRequest__storage__](#)
- struct [DatabaseListentriesReply__storage__](#)
- struct [DatabaseListEntriesRequest__storage__](#)
- struct [DatabaseListReply__storage__](#)
- struct [DatabaseListRequest__storage__](#)
- struct [DatabaseLoadReply__storage__](#)
- struct [DatabaseLoadRequest__storage__](#)
- struct [DatabaseMergeReply__storage__](#)
- struct [DatabaseMergeRequest__storage__](#)
- struct [DatabaseMoveEntryReply__storage__](#)
- struct [DatabaseMoveEntryRequest__storage__](#)
- struct [DatabaseRemoveTmpIsReply__storage__](#)
- struct [DatabaseRemoveTmpIsRequest__storage__](#)
- struct [DatabaseRenameReply__storage__](#)
- struct [DatabaseRenameRequest__storage__](#)
- struct [DatabaseRetrieveReply__storage__](#)
- struct [DatabaseRetrieveRequest__storage__](#)
- struct [DetectReply__storage__](#)
- struct [DetectRequest__storage__](#)
- struct [Empty__storage__](#)
- struct [EnhanceReply__storage__](#)
- struct [EnhanceRequest__storage__](#)
- struct [EnrollCustomRequest__storage__](#)
- struct [EnrollReply__storage__](#)
- struct [EnrollRequest__storage__](#)
- struct [ExtractReply__storage__](#)
- struct [ExtractRequest__storage__](#)
- struct [SearchDatabaseReply__storage__](#)
- struct [SearchDatabaseRequest__storage__](#)
- struct [SearchReply__storage__](#)
- struct [SearchRequest__storage__](#)
- struct [StatusReply__storage__](#)
- struct [StatusRequest__storage__](#)
- struct [TrackReply__storage__](#)
- struct [TrackRequest__storage__](#)
- struct [VerifyDatabaseReply__storage__](#)
- struct [VerifyDatabaseRequest__storage__](#)
- struct [VerifyReply__storage__](#)
- struct [VerifyRequest__storage__](#)

Macros

- `#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0`

Typedefs

- typedef struct [BriarServiceConfigurationReply__storage__](#) [BriarServiceConfigurationReply__storage__](#)
- typedef struct [BriarServiceConfigurationRequest__storage__](#) [BriarServiceConfigurationRequest__storage__](#)
- typedef struct [ClusterReply__storage__](#) [ClusterReply__storage__](#)
- typedef struct [ClusterRequest__storage__](#) [ClusterRequest__storage__](#)
- typedef struct [DatabaseCheckpointReply__storage__](#) [DatabaseCheckpointReply__storage__](#)
- typedef struct [DatabaseCheckpointRequest__storage__](#) [DatabaseCheckpointRequest__storage__](#)
- typedef struct [DatabaseCheckpointSubjectRequest__storage__](#) [DatabaseCheckpointSubjectRequest__storage__](#)
- typedef struct [DatabaseCreateReply__storage__](#) [DatabaseCreateReply__storage__](#)
- typedef struct [DatabaseCreateRequest__storage__](#) [DatabaseCreateRequest__storage__](#)

- typedef struct DatabaseDeleteReply__storage_ DatabaseDeleteReply__storage_
- typedef struct DatabaseDeleteRequest__storage_ DatabaseDeleteRequest__storage_
- typedef struct DatabaseFinalizeReply__storage_ DatabaseFinalizeReply__storage_
- typedef struct DatabaseFinalizeRequest__storage_ DatabaseFinalizeRequest__storage_
- typedef struct DatabaseHasEntryReply__storage_ DatabaseHasEntryReply__storage_
- typedef struct DatabaseHasEntryRequest__storage_ DatabaseHasEntryRequest__storage_
- typedef struct DatabaseInfoReply__storage_ DatabaseInfoReply__storage_
- typedef struct DatabaseInfoRequest__storage_ DatabaseInfoRequest__storage_
- typedef struct DatabaseInsertReply__storage_ DatabaseInsertReply__storage_
- typedef struct DatabaseInsertRequest__storage_ DatabaseInsertRequest__storage_
- typedef struct DatabaseListentriesReply__storage_ DatabaseListentriesReply__storage_
- typedef struct DatabaseListentriesRequest__storage_ DatabaseListentriesRequest__storage_
- typedef struct DatabaseListReply__storage_ DatabaseListReply__storage_
- typedef struct DatabaseListRequest__storage_ DatabaseListRequest__storage_
- typedef struct DatabaseLoadReply__storage_ DatabaseLoadReply__storage_
- typedef struct DatabaseLoadRequest__storage_ DatabaseLoadRequest__storage_
- typedef struct DatabaseMergeReply__storage_ DatabaseMergeReply__storage_
- typedef struct DatabaseMergeRequest__storage_ DatabaseMergeRequest__storage_
- typedef struct DatabaseMoveEntryReply__storage_ DatabaseMoveEntryReply__storage_
- typedef struct DatabaseMoveEntryRequest__storage_ DatabaseMoveEntryRequest__storage_
- typedef struct DatabaseRemoveTmplsReply__storage_ DatabaseRemoveTmplsReply__storage_
- typedef struct DatabaseRemoveTmplsRequest__storage_ DatabaseRemoveTmplsRequest__storage_
- typedef struct DatabaseRenameReply__storage_ DatabaseRenameReply__storage_
- typedef struct DatabaseRenameRequest__storage_ DatabaseRenameRequest__storage_
- typedef struct DatabaseRetrieveReply__storage_ DatabaseRetrieveReply__storage_
- typedef struct DatabaseRetrieveRequest__storage_ DatabaseRetrieveRequest__storage_
- typedef struct DetectReply__storage_ DetectReply__storage_
- typedef struct DetectRequest__storage_ DetectRequest__storage_
- typedef struct Empty__storage_ Empty__storage_
- typedef struct EnhanceReply__storage_ EnhanceReply__storage_
- typedef struct EnhanceRequest__storage_ EnhanceRequest__storage_
- typedef struct EnrollCustomRequest__storage_ EnrollCustomRequest__storage_
- typedef struct EnrollReply__storage_ EnrollReply__storage_
- typedef struct EnrollRequest__storage_ EnrollRequest__storage_
- typedef struct ExtractReply__storage_ ExtractReply__storage_
- typedef struct ExtractRequest__storage_ ExtractRequest__storage_
- typedef struct SearchDatabaseReply__storage_ SearchDatabaseReply__storage_
- typedef struct SearchDatabaseRequest__storage_ SearchDatabaseRequest__storage_
- typedef struct SearchReply__storage_ SearchReply__storage_
- typedef struct SearchRequest__storage_ SearchRequest__storage_
- typedef struct StatusReply__storage_ StatusReply__storage_
- typedef struct StatusRequest__storage_ StatusRequest__storage_
- typedef struct TrackReply__storage_ TrackReply__storage_
- typedef struct TrackRequest__storage_ TrackRequest__storage_
- typedef struct VerifyDatabaseReply__storage_ VerifyDatabaseReply__storage_
- typedef struct VerifyDatabaseRequest__storage_ VerifyDatabaseRequest__storage_
- typedef struct VerifyReply__storage_ VerifyReply__storage_
- typedef struct VerifyRequest__storage_ VerifyRequest__storage_

Functions

- `int32_t DetectReply_Modality_RawValue (DetectReply *message)`
Fetches the raw value of a `DetectReply`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t DetectRequest_EntryType_RawValue (DetectRequest *message)`
Fetches the raw value of a `DetectRequest`'s `entryType` property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t EnrollRequest_EnrollFlag_RawValue (EnrollRequest *message)`
Fetches the raw value of a `EnrollRequest`'s `enrollFlag` property, even if the value was not defined by the enum at the time the code was generated.
- `int32_t ExtractReply_Modality_RawValue (ExtractReply *message)`
Fetches the raw value of a `ExtractReply`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.
- `GPBObjCClassDeclaration (APIVersion)`
- `GPBObjCClassDeclaration (Attribute)`
- `GPBObjCClassDeclaration (BriarDatabase)`
- `GPBObjCClassDeclaration (BriarDatabaseInfo)`
- `GPBObjCClassDeclaration (BriarDurations)`
- `GPBObjCClassDeclaration (BriarErrors)`
- `GPBObjCClassDeclaration (BriarMatrix)`
- `GPBObjCClassDeclaration (BriarMedia)`
- `GPBObjCClassDeclaration (BriarProgress)`
- `GPBObjCClassDeclaration (ClusterConfidence)`
- `GPBObjCClassDeclaration (ClusterIds)`
- `GPBObjCClassDeclaration (Detection)`
- `GPBObjCClassDeclaration (DetectionOptions)`
- `GPBObjCClassDeclaration (DetectReply)`
- `GPBObjCClassDeclaration (EnhanceOptions)`
- `GPBObjCClassDeclaration (EnrollmentInfo)`
- `GPBObjCClassDeclaration (EnrollOptions)`
- `GPBObjCClassDeclaration (ExtractOptions)`
- `GPBObjCClassDeclaration (ExtractReply)`
- `GPBObjCClassDeclaration (FrameMetadata)`
- `GPBObjCClassDeclaration (MediaMetadata)`
- `GPBObjCClassDeclaration (Record)`
- `GPBObjCClassDeclaration (RecordList)`
- `GPBObjCClassDeclaration (SearchMatchList)`
- `GPBObjCClassDeclaration (SearchOptions)`
- `GPBObjCClassDeclaration (Template)`
- `GPBObjCClassDeclaration (TemplateIds)`
- `GPBObjCClassDeclaration (TemplateList)`
- `GPBObjCClassDeclaration (Tracklet)`
- `GPBObjCClassDeclaration (TrackReply)`
- `GPBObjCClassDeclaration (VerifyDatabaseReply)`
- `GPBObjCClassDeclaration (VerifyMatchList)`
- `GPBObjCClassDeclaration (VerifyOptions)`
- `void SetDetectReply_Modality_RawValue (DetectReply *message, int32_t value)`
Sets the raw value of an `DetectReply`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetDetectRequest_EntryType_RawValue (DetectRequest *message, int32_t value)`
Sets the raw value of an `DetectRequest`'s `entryType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.
- `void SetEnrollRequest_EnrollFlag_RawValue (EnrollRequest *message, int32_t value)`

Sets the raw value of an [EnrollRequest](#)'s `enrollFlag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

- void [SetExtractReply_Modality_RawValue](#) ([ExtractReply](#) *message, int32_t value)

Sets the raw value of an [ExtractReply](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

- void [SetStatusReply_Status_RawValue](#) ([StatusReply](#) *message, int32_t value)

Sets the raw value of an [StatusReply](#)'s `status` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

- void [SetTrackReply_Modality_RawValue](#) ([TrackReply](#) *message, int32_t value)

Sets the raw value of an [TrackReply](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

- void [SetVerifyRequest_Flag_RawValue](#) ([VerifyRequest](#) *message, int32_t value)

Sets the raw value of an [VerifyRequest](#)'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

- void [SetVerifyRequest_Role_RawValue](#) ([VerifyRequest](#) *message, int32_t value)

Sets the raw value of an [VerifyRequest](#)'s `role` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

- int32_t [StatusReply_Status_RawValue](#) ([StatusReply](#) *message)

Fetches the raw value of a [StatusReply](#)'s `status` property, even if the value was not defined by the enum at the time the code was generated.

- int32_t [TrackReply_Modality_RawValue](#) ([TrackReply](#) *message)

Fetches the raw value of a [TrackReply](#)'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

- int32_t [VerifyRequest_Flag_RawValue](#) ([VerifyRequest](#) *message)

Fetches the raw value of a [VerifyRequest](#)'s `flag` property, even if the value was not defined by the enum at the time the code was generated.

- int32_t [VerifyRequest_Role_RawValue](#) ([VerifyRequest](#) *message)

Fetches the raw value of a [VerifyRequest](#)'s `role` property, even if the value was not defined by the enum at the time the code was generated.

- GPBEnumDescriptor * [VerifyRequest_VerifyRole_EnumDescriptor](#) (void)

- BOOL [VerifyRequest_VerifyRole_IsValidValue](#) (int32_t value)

Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.6.1 Macro Definition Documentation

6.6.1.1 GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS

```
#define GPB_USE_PROTOBUF_FRAMEWORK_IMPORTS 0
```

6.6.2 Typedef Documentation

6.6.2.1 BriarServiceConfigurationReply__storage__

```
typedef struct BriarServiceConfigurationReply\_\_storage\_\_ BriarServiceConfigurationReply\_\_storage\_\_
```

6.6.2.2 BriarServiceConfigurationRequest__storage__

```
typedef struct BriarServiceConfigurationRequest\_\_storage\_\_ BriarServiceConfigurationRequest\_\_storage\_\_
```

6.6.2.3 ClusterReply__storage_

```
typedef struct ClusterReply__storage_ ClusterReply__storage_
```

6.6.2.4 ClusterRequest__storage_

```
typedef struct ClusterRequest__storage_ ClusterRequest__storage_
```

6.6.2.5 DatabaseCheckpointReply__storage_

```
typedef struct DatabaseCheckpointReply__storage_ DatabaseCheckpointReply__storage_
```

6.6.2.6 DatabaseCheckpointRequest__storage_

```
typedef struct DatabaseCheckpointRequest__storage_ DatabaseCheckpointRequest__storage_
```

6.6.2.7 DatabaseCheckpointSubjectRequest__storage_

```
typedef struct DatabaseCheckpointSubjectRequest__storage_ DatabaseCheckpointSubjectRequest__storage_
```

6.6.2.8 DatabaseCreateReply__storage_

```
typedef struct DatabaseCreateReply__storage_ DatabaseCreateReply__storage_
```

6.6.2.9 DatabaseCreateRequest__storage_

```
typedef struct DatabaseCreateRequest__storage_ DatabaseCreateRequest__storage_
```

6.6.2.10 DatabaseDeleteReply__storage_

```
typedef struct DatabaseDeleteReply__storage_ DatabaseDeleteReply__storage_
```

6.6.2.11 DatabaseDeleteRequest__storage_

```
typedef struct DatabaseDeleteRequest__storage_ DatabaseDeleteRequest__storage_
```

6.6.2.12 DatabaseFinalizeReply__storage_

```
typedef struct DatabaseFinalizeReply__storage_ DatabaseFinalizeReply__storage_
```

6.6.2.13 DatabaseFinalizeRequest__storage_

```
typedef struct DatabaseFinalizeRequest__storage_ DatabaseFinalizeRequest__storage_
```

6.6.2.14 DatabaseHasEntryReply__storage_

```
typedef struct DatabaseHasEntryReply__storage_ DatabaseHasEntryReply__storage_
```

6.6.2.15 DatabaseHasEntryRequest__storage_

```
typedef struct DatabaseHasEntryRequest__storage_ DatabaseHasEntryRequest__storage_
```

6.6.2.16 DatabaseInfoReply__storage_

```
typedef struct DatabaseInfoReply__storage_ DatabaseInfoReply__storage_
```

6.6.2.17 DatabaseInfoRequest__storage_

```
typedef struct DatabaseInfoRequest__storage_ DatabaseInfoRequest__storage_
```

6.6.2.18 DatabaseInsertReply__storage_

```
typedef struct DatabaseInsertReply__storage_ DatabaseInsertReply__storage_
```

6.6.2.19 DatabaseInsertRequest__storage_

```
typedef struct DatabaseInsertRequest__storage_ DatabaseInsertRequest__storage_
```

6.6.2.20 DatabaseListEntriesReply__storage_

```
typedef struct DatabaseListEntriesReply__storage_ DatabaseListEntriesReply__storage_
```

6.6.2.21 DatabaseListEntriesRequest__storage_

```
typedef struct DatabaseListEntriesRequest__storage_ DatabaseListEntriesRequest__storage_
```

6.6.2.22 DatabaseListReply__storage_

```
typedef struct DatabaseListReply__storage_ DatabaseListReply__storage_
```

6.6.2.23 DatabaseListRequest__storage_

```
typedef struct DatabaseListRequest__storage_ DatabaseListRequest__storage_
```

6.6.2.24 DatabaseLoadReply__storage_

```
typedef struct DatabaseLoadReply__storage_ DatabaseLoadReply__storage_
```

6.6.2.25 DatabaseLoadRequest__storage_

```
typedef struct DatabaseLoadRequest__storage_ DatabaseLoadRequest__storage_
```

6.6.2.26 DatabaseMergeReply__storage_

```
typedef struct DatabaseMergeReply__storage_ DatabaseMergeReply__storage_
```

6.6.2.27 DatabaseMergeRequest__storage_

```
typedef struct DatabaseMergeRequest__storage_ DatabaseMergeRequest__storage_
```

6.6.2.28 DatabaseMoveEntryReply__storage_

```
typedef struct DatabaseMoveEntryReply__storage_ DatabaseMoveEntryReply__storage_
```

6.6.2.29 DatabaseMoveEntryRequest__storage_

```
typedef struct DatabaseMoveEntryRequest__storage_ DatabaseMoveEntryRequest__storage_
```

6.6.2.30 DatabaseRemoveTmplsReply__storage_

```
typedef struct DatabaseRemoveTmplsReply__storage_ DatabaseRemoveTmplsReply__storage_
```

6.6.2.31 DatabaseRemoveTmplsRequest__storage_

```
typedef struct DatabaseRemoveTmplsRequest__storage_ DatabaseRemoveTmplsRequest__storage_
```

6.6.2.32 DatabaseRenameReply__storage_

```
typedef struct DatabaseRenameReply__storage_ DatabaseRenameReply__storage_
```

6.6.2.33 DatabaseRenameRequest__storage_

```
typedef struct DatabaseRenameRequest__storage_ DatabaseRenameRequest__storage_
```

6.6.2.34 DatabaseRetrieveReply__storage_

```
typedef struct DatabaseRetrieveReply__storage_ DatabaseRetrieveReply__storage_
```

6.6.2.35 DatabaseRetrieveRequest__storage_

```
typedef struct DatabaseRetrieveRequest__storage_ DatabaseRetrieveRequest__storage_
```

6.6.2.36 DetectReply__storage_

```
typedef struct DetectReply__storage_ DetectReply__storage_
```

6.6.2.37 DetectRequest__storage_

```
typedef struct DetectRequest__storage_ DetectRequest__storage_
```

6.6.2.38 Empty__storage_

```
typedef struct Empty__storage_ Empty__storage_
```

6.6.2.39 EnhanceReply__storage_

```
typedef struct EnhanceReply__storage_ EnhanceReply__storage_
```

6.6.2.40 EnhanceRequest__storage_

```
typedef struct EnhanceRequest__storage_ EnhanceRequest__storage_
```

6.6.2.41 EnrollCustomRequest__storage_

```
typedef struct EnrollCustomRequest__storage_ EnrollCustomRequest__storage_
```

6.6.2.42 EnrollReply__storage_

```
typedef struct EnrollReply__storage_ EnrollReply__storage_
```

6.6.2.43 EnrollRequest__storage_

```
typedef struct EnrollRequest__storage_ EnrollRequest__storage_
```

6.6.2.44 ExtractReply__storage_

```
typedef struct ExtractReply__storage_ ExtractReply__storage_
```

6.6.2.45 ExtractRequest__storage_

```
typedef struct ExtractRequest__storage_ ExtractRequest__storage_
```

6.6.2.46 SearchDatabaseReply__storage_

```
typedef struct SearchDatabaseReply__storage_ SearchDatabaseReply__storage_
```

6.6.2.47 SearchDatabaseRequest__storage_

```
typedef struct SearchDatabaseRequest__storage_ SearchDatabaseRequest__storage_
```

6.6.2.48 SearchReply__storage_

```
typedef struct SearchReply__storage_ SearchReply__storage_
```

6.6.2.49 SearchRequest__storage_

```
typedef struct SearchRequest__storage_ SearchRequest__storage_
```

6.6.2.50 StatusReply__storage_

```
typedef struct StatusReply__storage_ StatusReply__storage_
```

6.6.2.51 StatusRequest__storage_

```
typedef struct StatusRequest__storage_ StatusRequest__storage_
```

6.6.2.52 TrackReply__storage_

```
typedef struct TrackReply__storage_ TrackReply__storage_
```

6.6.2.53 TrackRequest__storage_

```
typedef struct TrackRequest__storage_ TrackRequest__storage_
```

6.6.2.54 VerifyDatabaseReply__storage_

```
typedef struct VerifyDatabaseReply__storage_ VerifyDatabaseReply__storage_
```

6.6.2.55 VerifyDatabaseRequest__storage_

```
typedef struct VerifyDatabaseRequest__storage_ VerifyDatabaseRequest__storage_
```

6.6.2.56 VerifyReply__storage_

```
typedef struct VerifyReply__storage_ VerifyReply__storage_
```

6.6.2.57 VerifyRequest__storage_

```
typedef struct VerifyRequest__storage_ VerifyRequest__storage_
```

6.6.3 Function Documentation**6.6.3.1 DetectReply_Modality_RawValue()**

```
int32_t DetectReply_Modality_RawValue (
    DetectReply * message )
```

Fetches the raw value of a [DetectReply](#) 's `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.6.3.2 DetectRequest_EntryType_RawValue()

```
int32_t DetectRequest_EntryType_RawValue (
    DetectRequest * message )
```

Fetches the raw value of a [DetectRequest](#) 's `entryType` property, even if the value was not defined by the enum at the time the code was generated.

6.6.3.3 EnrollRequest_EnrollFlag_RawValue()

```
int32_t EnrollRequest_EnrollFlag_RawValue (
    EnrollRequest * message )
```

Fetches the raw value of a [EnrollRequest](#) 's `enrollFlag` property, even if the value was not defined by the enum at the time the code was generated.

6.6.3.4 ExtractReply_Modality_RawValue()

```
int32_t ExtractReply_Modality_RawValue (
    ExtractReply * message )
```

Fetches the raw value of a `ExtractReply`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.6.3.5 GPBObjCClassDeclaration() [1/33]

```
GPBObjCClassDeclaration (
    APIVersion )
```

6.6.3.6 GPBObjCClassDeclaration() [2/33]

```
GPBObjCClassDeclaration (
    Attribute )
```

6.6.3.7 GPBObjCClassDeclaration() [3/33]

```
GPBObjCClassDeclaration (
    BriarDatabase )
```

6.6.3.8 GPBObjCClassDeclaration() [4/33]

```
GPBObjCClassDeclaration (
    BriarDatabaseInfo )
```

6.6.3.9 GPBObjCClassDeclaration() [5/33]

```
GPBObjCClassDeclaration (
    BriarDurations )
```

6.6.3.10 GPBObjCClassDeclaration() [6/33]

```
GPBObjCClassDeclaration (
    BriarErrors )
```

6.6.3.11 GPBObjCClassDeclaration() [7/33]

```
GPBObjCClassDeclaration (
    BriarMatrix )
```

6.6.3.12 GPBObjCClassDeclaration() [8/33]

```
GPBObjCClassDeclaration (
    BriarMedia )
```

6.6.3.13 GPBObjCClassDeclaration() [9/33]

```
GPBObjCClassDeclaration (
    BriarProgress )
```

6.6.3.14 GPBObjCClassDeclaration() [10/33]

```
GPBObjCClassDeclaration (
    ClusterConfidence )
```

6.6.3.15 GPBObjCClassDeclaration() [11/33]

```
GPBObjCClassDeclaration (
    ClusterIds )
```

6.6.3.16 GPBObjCClassDeclaration() [12/33]

```
GPBObjCClassDeclaration (
    Detection )
```

6.6.3.17 GPBObjCClassDeclaration() [13/33]

```
GPBObjCClassDeclaration (
    DetectionOptions )
```

6.6.3.18 GPBObjCClassDeclaration() [14/33]

```
GPBObjCClassDeclaration (
    DetectReply )
```

6.6.3.19 GPBObjCClassDeclaration() [15/33]

```
GPBObjCClassDeclaration (
    EnhanceOptions )
```

6.6.3.20 GPBObjCClassDeclaration() [16/33]

```
GPBObjCClassDeclaration (
    EnrollmentInfo )
```

6.6.3.21 GPBObjCClassDeclaration() [17/33]

```
GPBObjCClassDeclaration (
    EnrollOptions )
```

6.6.3.22 GPBObjCClassDeclaration() [18/33]

```
GPBObjCClassDeclaration (
    ExtractOptions )
```

6.6.3.23 GPBObjCClassDeclaration() [19/33]

```
GPBObjCClassDeclaration (
    ExtractReply )
```

6.6.3.24 GPBObjCClassDeclaration() [20/33]

```
GPBObjCClassDeclaration (
    FrameMetadata )
```

6.6.3.25 GPBObjCClassDeclaration() [21/33]

```
GPBObjCClassDeclaration (
    MediaMetadata )
```

6.6.3.26 GPBObjCClassDeclaration() [22/33]

```
GPBObjCClassDeclaration (
    Record )
```

6.6.3.27 GPBObjCClassDeclaration() [23/33]

```
GPBObjCClassDeclaration (
    RecordList )
```

6.6.3.28 GPBObjCClassDeclaration() [24/33]

```
GPBObjCClassDeclaration (
    SearchMatchList )
```

6.6.3.29 GPBObjCClassDeclaration() [25/33]

```
GPBObjCClassDeclaration (
    SearchOptions )
```

6.6.3.30 GPBObjCClassDeclaration() [26/33]

```
GPBObjCClassDeclaration (
    Template )
```

6.6.3.31 GPBObjCClassDeclaration() [27/33]

```
GPBObjCClassDeclaration (
    TemplateIds )
```

6.6.3.32 GPBObjCClassDeclaration() [28/33]

```
GPBObjCClassDeclaration (
    TemplateList )
```

6.6.3.33 GPBObjCClassDeclaration() [29/33]

```
GPBObjCClassDeclaration (
    Tracklet )
```

6.6.3.34 GPBObjCClassDeclaration() [30/33]

```
GPBObjCClassDeclaration (
    TrackReply )
```

6.6.3.35 GPBObjCClassDeclaration() [31/33]

```
GPBObjCClassDeclaration (
    VerifyDatabaseReply )
```

6.6.3.36 GPBObjCClassDeclaration() [32/33]

```
GPBObjCClassDeclaration (
    VerifyMatchList )
```

6.6.3.37 GPBObjCClassDeclaration() [33/33]

```
GPBObjCClassDeclaration (
    VerifyOptions )
```

6.6.3.38 SetDetectReply_Modality_RawValue()

```
void SetDetectReply_Modality_RawValue (
    DetectReply * message,
    int32_t value )
```

Sets the raw value of an [DetectReply](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.6.3.39 SetDetectRequest_EntryType_RawValue()

```
void SetDetectRequest_EntryType_RawValue (
    DetectRequest * message,
    int32_t value )
```

Sets the raw value of an [DetectRequest](#)'s `entryType` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.6.3.40 SetEnrollRequest_EnrollFlag_RawValue()

```
void SetEnrollRequest_EnrollFlag_RawValue (
    EnrollRequest * message,
    int32_t value )
```

Sets the raw value of an [EnrollRequest](#)'s `enrollFlag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.6.3.41 SetExtractReply_Modality_RawValue()

```
void SetExtractReply_Modality_RawValue (
    ExtractReply * message,
    int32_t value )
```

Sets the raw value of an [ExtractReply](#)'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.6.3.42 SetStatusReply_Status_RawValue()

```
void SetStatusReply_Status_RawValue (
    StatusReply * message,
    int32_t value )
```

Sets the raw value of an `StatusReply`'s `status` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.6.3.43 SetTrackReply_Modality_RawValue()

```
void SetTrackReply_Modality_RawValue (
    TrackReply * message,
    int32_t value )
```

Sets the raw value of an `TrackReply`'s `modality` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.6.3.44 SetVerifyRequest_Flag_RawValue()

```
void SetVerifyRequest_Flag_RawValue (
    VerifyRequest * message,
    int32_t value )
```

Sets the raw value of an `VerifyRequest`'s `flag` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.6.3.45 SetVerifyRequest_Role_RawValue()

```
void SetVerifyRequest_Role_RawValue (
    VerifyRequest * message,
    int32_t value )
```

Sets the raw value of an `VerifyRequest`'s `role` property, allowing it to be set to a value that was not defined by the enum at the time the code was generated.

6.6.3.46 StatusReply_Status_RawValue()

```
int32_t StatusReply_Status_RawValue (
    StatusReply * message )
```

Fetches the raw value of a `StatusReply`'s `status` property, even if the value was not defined by the enum at the time the code was generated.

6.6.3.47 TrackReply_Modality_RawValue()

```
int32_t TrackReply_Modality_RawValue (
    TrackReply * message )
```

Fetches the raw value of a `TrackReply`'s `modality` property, even if the value was not defined by the enum at the time the code was generated.

6.6.3.48 VerifyRequest_Flag_RawValue()

```
int32_t VerifyRequest_Flag_RawValue (
    VerifyRequest * message )
```

Fetches the raw value of a `VerifyRequest`'s `flag` property, even if the value was not defined by the enum at the time the code was generated.

6.6.3.49 VerifyRequest_Role_RawValue()

```
int32_t VerifyRequest_Role_RawValue (
    VerifyRequest * message )
```

Fetches the raw value of a `VerifyRequest`'s role property, even if the value was not defined by the enum at the time the code was generated.

6.6.3.50 VerifyRequest_VerifyRole_EnumDescriptor()

```
GPBEnumDescriptor* VerifyRequest_VerifyRole_EnumDescriptor (
    void )
```

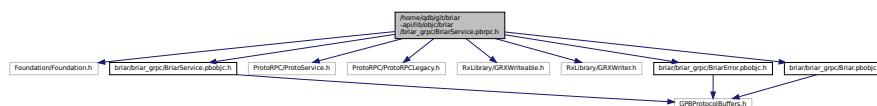
6.6.3.51 VerifyRequest_VerifyRole_IsValidValue()

```
BOOL VerifyRequest_VerifyRole_IsValidValue (
    int32_t value__ )
```

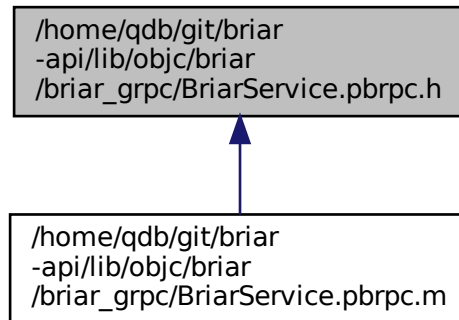
Checks to see if the given value is defined by the enum or was not known at the time this source was generated.

6.7 /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbrpc.h File Reference

```
#import <Foundation/Foundation.h>
#import "briar/briar_grpc/BriarService.pbobjc.h"
#import <ProtoRPC/ProtoService.h>
#import <ProtoRPC/ProtoRPCLegacy.h>
#import <RxLibrary/GRXWriteable.h>
#import <RxLibrary/GRXWriter.h>
#import "briar/briar_grpc/BriarError.pbobjc.h"
#import "briar/briar_grpc/Briar.pbobjc.h"
#include dependency graph for BriarService.pbrpc.h:
```



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



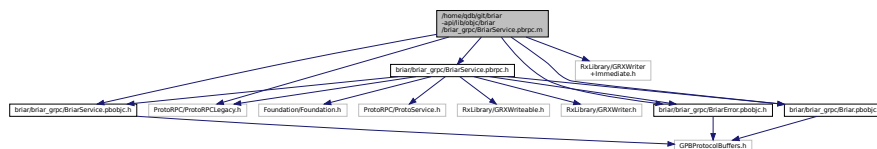
Data Structures

- class [BRIARService](#)
Basic service implementation, over gRPC, that only does marshalling and parsing.
- protocol [<BRIARService>](#)
The methods in this protocol belong to a set of old APIs that have been deprecated.
- protocol [<BRIARService2>](#)

6.8 /home/qdb/git/briar-api/lib/objc/briar/briar_grpc/BriarService.pbrpc.m File Reference

```
#import "briar/briar_grpc/BriarService.pbrpc.h"
#import "briar/briar_grpc/BriarService.pbobjc.h"
#import <ProtoRPC/ProtoRPCLegacy.h>
#import <RxLibrary/GRXWriter+Immediate.h>
#import "briar/briar_grpc/BriarError.pbobjc.h"
#import "briar/briar_grpc/Briar.pbobjc.h"
```

Include dependency graph for BriarService.pbrpc.m:



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