QEverCloud

3.0.3

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Chapter 1

QEverCloud

Unofficial Evernote Cloud API for Qt

Travis CI (Linux, OS X):

AppVeyor CI (Windows):

What's this

This library presents the complete Evernote SDK for Qt. All the functionality that is described on `Evernote site` is implemented and ready to use. In particular OAuth authentication is implemented.

Read doxygen generated `documentation` for detailed info. The documentation is also provided by the `qevercloud-doc` package in Debian.

API breaks from 2.x to 3.0

The API breaks only include the relocation of header files required in order to use the library: in 2.x one could simply do

```
#include <QEverCloud.h>
```

while since 3.0 the intended way to use the installed shared library is the following:

```
#if QT_VERSION < QT_VERSION_CHECK(5, 0, 0)
#include <qt4qevercloud/QEverCloud.h>
#else
#include <qt5qevercloud/QEverCloud.h>
#endif
```

C++11/14/17 features

The library does not use any C++11/14/17 features directly but only through macros like `Q_DECL_OVERRIDE`, `Q_STATIC_ASSERT_X`, `QStringLiteral` and others. Some of these macros are also "backported" to Qt4 version of the library i.e. they are defined by the library itself for Qt4 version. So the library should be buildable even with not C++11/14/17-compliant compiler.

Include files for applications using the library

Two "cumulative" headers - *QEverCloud.h* or *QEverCloudOAuth.h* - include everything needed for the general and OAuth functionality correspondingly. More "fine-grained" headers are available within the same subfolder if needed.

Related projects

- `NotePoster` is an example app using QEverCloud library to post notes to Evernote.
- `QEverCloud packaging` repository contains various files and scripts required for building QEverCloud packages for various platforms and distributions.
- `QEverCloudGenerator` repository contains the parser of `Evernote Thrift IDL files` generating headers and sources for QEverCloud library.

Chapter 2

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Here is a list of all namespaces with brief descriptions:

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Chapter 6

Namespace Documentation

6.1 qevercloud Namespace Reference

Classes

- struct Accounting
- class AsyncResult

  Returned by asynchonous versions of functions.
- struct AuthenticationResult
- struct BootstrapInfo
- struct BootstrapProfile
- struct BootstrapSettings
- struct BusinessNotebook
- struct BusinessUserInfo
- struct BusinessUserRole
- struct ClientUsageMetrics
- struct Data
- struct EDAMErrorCode
- class EDAMNotFoundException
- class EDAMNotFoundExceptionData
- class EDAMSystemException
- class EDAMSystemExceptionAuthExpired
- class EDAMSystemExceptionAuthExpiredData
- class EDAMSystemExceptionData
- class EDAMSystemExceptionRateLimitReached
- class EDAMSystemExceptionRateLimitReachedData
- class EDAMUserException
- class EDAMUserExceptionData
- class EventLoopFinisher
- class EverCloudException
- class EverCloudExceptionData

  EverCloudException counterpart for asynchronous API.
- class EvernoteException
- class EvernoteExceptionData
- class EvernoteOAuthDialog

  Authorizes your app with the Evernote service by means of OAuth authentication.
- class EvernoteOAuthWebView

The class is tailored specifically for OAuth authorization with Evernote.

- struct LazyMap
- struct LinkedNotebook
- struct Note
- struct NoteAttributes
- struct Notebook
- struct NotebookDescriptor
- struct NotebookRestrictions
- struct NoteCollectionCounts
- struct NoteEmailParameters
- struct NoteFilter
- struct NoteList
- struct NoteMetadata
- struct NotesMetadataList
- struct NotesMetadataResultSpec
- struct NoteSortOrder
- class NoteStore
- struct NoteVersionId
- class Optional
- struct PremiumInfo
- struct PremiumOrderStatus
- struct PrivilegeLevel
- struct PublicUserInfo
- struct Publishing
- struct QueryFormat
- struct RelatedQuery
- struct RelatedResult
- struct RelatedResultSpec
- struct ReminderEmailConfig
- struct Resource
- struct ResourceAttributes
- struct SavedSearch
- struct SavedSearchScope
- struct SharedNotebook
- struct SharedNotebookInstanceRestrictions
- struct SharedNotebookPrivilegeLevel
- struct SharedNotebookRecipientSettings
- struct SponsoredGroupRole
- struct SyncChunk
- struct SyncChunkFilter
- struct SyncState
- struct Tag
- class ThriftException
- class ThriftExceptionData
- class Thumbnail

The class is for downloading thumbnails for notes and resources from Evernote servers.

- struct User
- struct UserAttributes
- class UserStore

Typedefs

- typedef qint32 UserID
- typedef QString Guid
- typedef qint64 Timestamp

Functions

- QEVERCLOUD_EXPORT QNetworkAccessManager * evernoteNetworkAccessManager ()
- QEVERCLOUD_EXPORT int libraryVersion ()
- void setNonceGenerator (quint64(*nonceGenerator)())

  Sets the function to use for nonce generation for OAuth authentication.

Variables

- class QEVERCLOUD_EXPORT EverCloudExceptionData
- QEVERCLOUD_EXPORT const qint32 EDAM_ATTRIBUTE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_ATTRIBUTE_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_ATTRIBUTE_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_ATTRIBUTE_LIST_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_ATTRIBUTE_MAP_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_GUID_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_GUID_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_GUID_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_EMAIL_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_EMAIL_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_EMAIL_LOCAL_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_EMAIL_DOMAIN_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_EMAIL_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_VAT_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_TIMEZONE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_TIMEZONE_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_TIMEZONE_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_MIME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_MIME_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_MIME_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_GIF
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_JPEG
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_PNG
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_WAV
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_MP3
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_AMR
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_AAC
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_M4A
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_MP4_VIDEO
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_INK
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_PDF
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_DEFAULT
- QEVERCLOUD_EXPORT const QSet< QString > EDAM_MIME_TYPES
- QEVERCLOUD_EXPORT const QSet< QString > EDAM_INDEXABLE_RESOURCE_MIME_TYPES
- QEVERCLOUD_EXPORT const qint32 EDAM_SEARCH_QUERY_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_SEARCH_QUERY_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_SEARCH_QUERY_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_HASH_LEN
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_USERNAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_USERNAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_USER_USERNAME_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_USER_NAME_REGEX

- QEVERCLOUD_EXPORT const qint32 EDAM_TAG_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_TAG_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_TAG_NAME_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_TITLE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_TITLE_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_NOTE_TITLE_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_CONTENT_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_CONTENT_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_APPLICATIONDATA_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_APPLICATIONDATA_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_APPLICATIONDATA_VALUE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_APPLICATIONDATA_VALUE_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_APPLICATIONDATA_ENTRY_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_APPLICATIONDATA_NAME_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_APPLICATIONDATA_VALUE_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTEBOOK_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTEBOOK_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_NOTEBOOK_NAME_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTEBOOK_STACK_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTEBOOK_STACK_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_NOTEBOOK_STACK_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_PUBLISHING_URI_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_PUBLISHING_URI_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_PUBLISHING_URI_REGEX
- QEVERCLOUD_EXPORT const QSet< QString > EDAM_PUBLISHING_URI_PROHIBITED
- QEVERCLOUD_EXPORT const qint32 EDAM_PUBLISHING_DESCRIPTION_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_PUBLISHING_DESCRIPTION_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_PUBLISHING_DESCRIPTION_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_SAVED_SEARCH_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_SAVED_SEARCH_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_SAVED_SEARCH_NAME_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_PASSWORD_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_PASSWORD_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_USER_PASSWORD_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_URI_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_TAGS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_RESOURCES_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_TAGS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_TAGS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_SAVED_SEARCHES_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_NOTES_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_NOTES_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_NOTEBOOKS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_NOTEBOOKS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_RECENT_MAILED_ADDRESSES_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_MAIL_LIMIT_DAILY_FREE
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_MAIL_LIMIT_DAILY_PREMIUM
- QEVERCLOUD_EXPORT const qint64 EDAM_USER_UPLOAD_LIMIT_FREE
- QEVERCLOUD_EXPORT const qint64 EDAM_USER_UPLOAD_LIMIT_PREMIUM
- QEVERCLOUD_EXPORT const qint64 EDAM_USER_UPLOAD_LIMIT_BUSINESS
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_SIZE_MAX_FREE
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_SIZE_MAX_PREMIUM
- QEVERCLOUD_EXPORT const qint32 EDAM_RESOURCE_SIZE_MAX_FREE
- QEVERCLOUD_EXPORT const qint32 EDAM_RESOURCE_SIZE_MAX_PREMIUM
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_LINKED_NOTEBOOK_MAX

- QEVERCLOUD_EXPORT const qint32 EDAM_USER_LINKED_NOTEBOOK_MAX_PREMIUM
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTEBOOK_SHARED_NOTEBOOK_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_CONTENT_CLASS_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_CONTENT_CLASS_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_NOTE_CONTENT_CLASS_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_HELLO_APP_CONTENT_CLASS_PREFIX
- QEVERCLOUD_EXPORT const QString EDAM_FOOD_APP_CONTENT_CLASS_PREFIX
- QEVERCLOUD_EXPORT const QString EDAM_CONTENT_CLASS_HELLO_ENCOUNTER
- QEVERCLOUD_EXPORT const QString EDAM_CONTENT_CLASS_HELLO_PROFILE
- QEVERCLOUD_EXPORT const QString EDAM_CONTENT_CLASS_FOOD_MEAL
- QEVERCLOUD_EXPORT const QString EDAM_CONTENT_CLASS_SKITCH_PREFIX
- QEVERCLOUD_EXPORT const QString EDAM_CONTENT_CLASS_SKITCH
- QEVERCLOUD_EXPORT const QString EDAM_CONTENT_CLASS_SKITCH_PDF
- QEVERCLOUD_EXPORT const QString EDAM_CONTENT_CLASS_PENULTIMATE_PREFIX
- QEVERCLOUD_EXPORT const QString EDAM_CONTENT_CLASS_PENULTIMATE_NOTEBOOK
- QEVERCLOUD_EXPORT const qint32 EDAM_RELATED_PLAINTEXT_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_RELATED_PLAINTEXT_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_RELATED_MAX_NOTES
- QEVERCLOUD_EXPORT const qint32 EDAM_RELATED_MAX_NOTEBOOKS
- QEVERCLOUD_EXPORT const qint32 EDAM_RELATED_MAX_TAGS
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_PHONE_NUMBER_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_PREFERENCE_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_PREFERENCE_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_PREFERENCE_VALUE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_PREFERENCE_VALUE_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_MAX_PREFERENCES
- QEVERCLOUD_EXPORT const qint32 EDAM_MAX_VALUES_PER_PREFERENCE
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_NAME_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_VALUE_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_SHORTCUTS
- QEVERCLOUD_EXPORT const qint32 EDAM_PREFERENCE_SHORTCUTS_MAX_VALUES
- QEVERCLOUD_EXPORT const qint32 EDAM_DEVICE_ID_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_DEVICE_ID_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_DEVICE_DESCRIPTION_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_DEVICE_DESCRIPTION_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_SEARCH_SUGGESTIONS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MIN
- QEVERCLOUD_EXPORT const QString CLASSIFICATION_RECIPE_USER_NON_RECIPE
- QEVERCLOUD_EXPORT const QString CLASSIFICATION_RECIPE_USER_RECIPE
- QEVERCLOUD_EXPORT const QString CLASSIFICATION_RECIPE_SERVICE_RECIPE
- QEVERCLOUD_EXPORT const QString EDAM_NOTE_SOURCE_WEB_CLIP
- QEVERCLOUD_EXPORT const QString EDAM_NOTE_SOURCE_MAIL_CLIP
- QEVERCLOUD_EXPORT const QString EDAM_NOTE_SOURCE_MAIL_SMTP_GATEWAY
- QEVERCLOUD_EXPORT const qint16 EDAM_VERSION_MAJOR
- QEVERCLOUD_EXPORT const qint16 EDAM_VERSION_MINOR

6.1.1 Detailed Description

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This file was generated from Evernote Thrift API

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This file is a part of QEverCloud project and is distributed under the terms of MIT license: https://opensource.org/licenses/MIT All the library lives in this namespace.

6.1.2 Typedef Documentation

6.1.2.1 Guid

```
typedef QString qevercloud::Guid
```

Most data elements within a user's account (e.g. notebooks, notes, tags, resources, etc.) are internally referred to using a globally unique identifier that is written in a standard string format. For example:

"8743428c-ef91-4d05-9e7c-4a2e856e813a"

The internal components of the GUID are not given any particular meaning: only the entire string is relevant as a unique identifier.

6.1.2.2 Timestamp

```
typedef qint64 qevercloud::Timestamp
```

An Evernote Timestamp is the date and time of an event in UTC time. This is expressed as a specific number of milliseconds since the standard base "epoch" of:

January 1, 1970, 00:00:00 GMT

NOTE: the time is expressed at the resolution of milliseconds, but the value is only precise to the level of seconds. This means that the last three (decimal) digits of the timestamp will be '000'.

The Thrift IDL specification does not include a native date/time type, so this value is used instead.

The service will accept timestamp values (e.g. for Note created and update times) between 1000-01-01 and 9999-12-31

6.1.2.3 UserID

```
typedef qint32 qevercloud::UserID
```

Every Evernote account is assigned a unique numeric identifier which will not change for the life of the account. This is independent of the (string-based) "username" which is known by the user for login purposes. The user should have no reason to know their UserID.

6.1.3 Function Documentation

6.1.3.1 evernoteNetworkAccessManager()

```
QEVERCLOUD_EXPORT QNetworkAccessManager* qevercloud::evernoteNetworkAccessManager ( )
```

All network request made by QEverCloud - including OAuth - are served by this NetworkAccessManager.

Use this function to handle proxy authentication requests etc.

6.1.3.2 libraryVersion()

```
QEVERCLOUD_EXPORT int qevercloud::libraryVersion ( )
```

qevercloud library version.

6.1.3.3 setNonceGenerator()

```
void qevercloud::setNonceGenerator (
            quint64(*)() nonceGenerator )
```

Sets the function to use for nonce generation for OAuth authentication.

The default algorithm uses qrand() so do not forget to call qsrand() in your application!

qrand() is not guaranteed to be cryptographically strong. I try to amend the fact by using QUuid::createUuid() which uses /dev/urandom if it's availabe. But this is no guarantee either. So if you want total control over nonce generation you can write you own algorithm.

setNonceGenerator is NOT thread safe.

6.1.4 Variable Documentation

6.1.4.1 CLASSIFICATION_RECIPE_SERVICE_RECIPE

```
QEVERCLOUD_EXPORT const QString qevercloud::CLASSIFICATION_RECIPE_SERVICE_RECIPE
```

A value for the "recipe" key in the "classifications" map in NoteAttributes that indicates the Evernote service has classified a note as being a recipe.

6.1.4.2 CLASSIFICATION_RECIPE_USER_NON_RECIPE

```
QEVERCLOUD_EXPORT const QString qevercloud::CLASSIFICATION_RECIPE_USER_NON_RECIPE
```

A value for the "recipe" key in the "classifications" map in NoteAttributes that indicates the user has classified a note as being a non-recipe.

6.1.4.3 CLASSIFICATION_RECIPE_USER_RECIPE

```
QEVERCLOUD_EXPORT const QString qevercloud::CLASSIFICATION_RECIPE_USER_RECIPE
```

A value for the "recipe" key in the "classifications" map in NoteAttributes that indicates the user has classified a note as being a recipe.

6.1.4.4 EDAM_APPLICATIONDATA_ENTRY_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_ENTRY_LEN_MAX
```

The total length of an entry in an applicationData LazyMap, which is the sum of the length of the key and the value for the entry.

6.1.4.5 EDAM_APPLICATIONDATA_NAME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_NAME_LEN_MAX
```

Maximum length of an application name, which is the key in an applicationData LazyMap found in entities such as Resources and Notes.

6.1.4.6 EDAM_APPLICATIONDATA_NAME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_NAME_LEN_MIN
```

Minimum length of an application name, which is the key in an applicationData LazyMap found in entities such as Resources and Notes.

6.1.4.7 EDAM_APPLICATIONDATA_NAME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_APPLICATIONDATA_NAME_REGEX
```

An application name must match this regex. An application name is the key portion of an entry in an applicationData map as found in entities such as Resources and Notes. Note that even if both the name and value regexes match, it is still necessary to check the sum of the lengths against EDAM_APPLICATIONDATA_ENTRY_LEN_MAX.

6.1.4.8 EDAM_APPLICATIONDATA_VALUE_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_VALUE_LEN_MAX
```

Maximum length of an applicationData value in a LazyMap, found in entities such as Resources and Notes. Note, however, that the sum of the size of hte key and value is constrained by EDAM_APPLICATIONDATA_ENTRY_L↩EN_MAX, so the maximum length, in practice, depends upon the key value being used.

6.1.4.9 EDAM_APPLICATIONDATA_VALUE_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_VALUE_LEN_MIN
```

Minimum length of an applicationData value in a LazyMap, found in entities such as Resources and Notes.

6.1.4.10 EDAM_APPLICATIONDATA_VALUE_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_APPLICATIONDATA_VALUE_REGEX
```

An applicationData map value must match this regex. Note that even if both the name and value regexes match, it is still necessary to check the sum of the lengths against EDAM_APPLICATIONDATA_ENTRY_LEN_MAX.

6.1.4.11 EDAM_ATTRIBUTE_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_ATTRIBUTE_LEN_MAX
```

Maximum length of any string-based attribute, in Unicode chars

6.1.4.12 EDAM_ATTRIBUTE_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_ATTRIBUTE_LEN_MIN
```

Minimum length of any string-based attribute, in Unicode chars

6.1.4.13 EDAM_ATTRIBUTE_LIST_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_ATTRIBUTE_LIST_MAX
```

The maximum number of values that can be stored in a list-based attribute (e.g. see UserAttributes.recentMailed↩Addresses)

6.1.4.14 EDAM_ATTRIBUTE_MAP_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_ATTRIBUTE_MAP_MAX
```

The maximum number of entries that can be stored in a map-based attribute such as applicationData fields in Resources and Notes.

6.1.4.15 EDAM_ATTRIBUTE_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_ATTRIBUTE_REGEX
```

Any string-based attribute must match the provided regular expression. This excludes all Unicode line endings and control characters.

6.1.4.16 EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LEN_MAX
```

The maximum length, in Unicode characters, of a description for a business notebook.

6.1.4.17 EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LEN_MIN
```

The minimum length, in Unicode characters, of a description for a business notebook.

6.1.4.18 EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_REGEX
```

All business notebook descriptions must match this pattern. This excludes control chars or line/paragraph separators. The string may not begin or end with whitespace.

6.1.4.19 EDAM_BUSINESS_NOTEBOOKS_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTEBOOKS_MAX
```

Maximum number of Notebooks in a business account

6.1.4.20 EDAM_BUSINESS_NOTES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTES_MAX
```

Maximum number of Notes per business account

6.1.4.21 EDAM_BUSINESS_PHONE_NUMBER_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_PHONE_NUMBER_LEN_MAX
```

The maximum length of a business phone number.

6.1.4.22 EDAM_BUSINESS_TAGS_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_TAGS_MAX
```

Maximum number of Tags per business account.

6.1.4.23 EDAM_BUSINESS_URI_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_URI_LEN_MAX
```

The maximum length of an Evernote Business URI

6.1.4.24 EDAM_CONTENT_CLASS_FOOD_MEAL

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_FOOD_MEAL
```

The content class prefix used for structured notes created by Evernote Food that captures the experience of a particular meal. When performing a wildcard search via filtered sync chunks or search strings, the * character must be appended to this constant.

6.1.4.25 EDAM_CONTENT_CLASS_HELLO_ENCOUNTER

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_HELLO_ENCOUNTER
```

The content class prefix used for structured notes created by Evernote Hello that represents an encounter with a person. When performing a wildcard search via filtered sync chunks or search strings, the * character must be appended to this constant.

6.1.4.26 EDAM_CONTENT_CLASS_HELLO_PROFILE

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_HELLO_PROFILE
```

The content class prefix used for structured notes created by Evernote Hello that represents the user's profile. When performing a wildcard search via filtered sync chunks or search strings, the * character must be appended to this constant.

6.1.4.27 EDAM_CONTENT_CLASS_PENULTIMATE_NOTEBOOK

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_PENULTIMATE_NOTEBOOK
```

The content class value used for structured notes created by Evernote Penultimate that represents a Penultimate notebook.

6.1.4.28 EDAM_CONTENT_CLASS_PENULTIMATE_PREFIX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_PENULTIMATE_PREFIX
```

The content class prefix used for structured notes created by Evernote Penultimate. When performing a wildcard search via filtered sync chunks or search strings, the * character must be appended to this constant.

6.1.4.29 EDAM_CONTENT_CLASS_SKITCH

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_SKITCH
```

The content class value used for structured image notes created by Evernote Skitch.

6.1.4.30 EDAM_CONTENT_CLASS_SKITCH_PDF

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_SKITCH_PDF
```

The content class value used for structured PDF notes created by Evernote Skitch.

6.1.4.31 EDAM_CONTENT_CLASS_SKITCH_PREFIX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_SKITCH_PREFIX
```

The content class prefix used for structured notes created by Evernote Skitch. When performing a wildcard search via filtered sync chunks or search strings, the $*$ character must be appended to this constant.

6.1.4.32 EDAM_DEVICE_DESCRIPTION_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_DEVICE_DESCRIPTION_LEN_MAX
```

Maximum length of the device description string associated with long sessions.

6.1.4.33 EDAM_DEVICE_DESCRIPTION_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_DEVICE_DESCRIPTION_REGEX
```

Regular expression for device description strings associated with long sessions.

6.1.4.34 EDAM_DEVICE_ID_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_DEVICE_ID_LEN_MAX
```

Maximum length of the device identifier string associated with long sessions.

6.1.4.35 EDAM_DEVICE_ID_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_DEVICE_ID_REGEX
```

Regular expression for device identifier strings associated with long sessions.

6.1.4.36 EDAM_EMAIL_DOMAIN_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_EMAIL_DOMAIN_REGEX
```

A regular expression that matches the part of an email address after the '@' symbol.

6.1.4.37 EDAM_EMAIL_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_EMAIL_LEN_MAX
```

The maximum length of any email address

6.1.4.38 EDAM_EMAIL_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_EMAIL_LEN_MIN
```

The minimum length of any email address

6.1.4.39 EDAM_EMAIL_LOCAL_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_EMAIL_LOCAL_REGEX
```

A regular expression that matches the part of an email address before the '@' symbol.

6.1.4.40 EDAM_EMAIL_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_EMAIL_REGEX
```

A regular expression that must match any email address given to Evernote. Email addresses must comply with RFC 2821 and 2822.

6.1.4.41 EDAM_FOOD_APP_CONTENT_CLASS_PREFIX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_FOOD_APP_CONTENT_CLASS_PREFIX
```

The content class prefix used for all notes created by Evernote Food. This prefix can be used to assemble individual content class strings, or can be used to create a wildcard search to get all notes created by Food. When performing a wildcard search via filtered sync chunks or search strings, the $*$ character must be appended to this constant.

6.1.4.42 EDAM_GUID_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_GUID_LEN_MAX
```

The maximum length of a GUID generated by the Evernote service

6.1.4.43 EDAM_GUID_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_GUID_LEN_MIN
```

The minimum length of a GUID generated by the Evernote service

6.1.4.44 EDAM_GUID_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_GUID_REGEX
```

GUIDs generated by the Evernote service will match the provided pattern

6.1.4.45 EDAM_HASH_LEN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_HASH_LEN
```

The exact length of a MD5 hash checksum, in binary bytes. This is the exact length that must be matched for any binary hash value.

6.1.4.46 EDAM_HELLO_APP_CONTENT_CLASS_PREFIX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_HELLO_APP_CONTENT_CLASS_PREFIX
```

The content class prefix used for all notes created by Evernote Hello. This prefix can be used to assemble individual content class strings, or can be used to create a wildcard search to get all notes created by Hello. When performing a wildcard search via filtered sync chunks or search strings, the $*$ character must be appended to this constant.

6.1.4.47 EDAM_INDEXABLE_RESOURCE_MIME_TYPES

```
QEVERCLOUD_EXPORT const QSet< QString > qevercloud::EDAM_INDEXABLE_RESOURCE_MIME_TYPES
```

The set of MIME types that Evernote will parse and index for searching. With exception of images, and PDFs, which are handled in a different way.

6.1.4.48 EDAM_MAX_PREFERENCES

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MAX_PREFERENCES
```

Maximum number of name/value pairs allowed

6.1.4.49 EDAM_MAX_VALUES_PER_PREFERENCE

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MAX_VALUES_PER_PREFERENCE
```

Maximum number of values per preference name

6.1.4.50 EDAM_MIME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MIME_LEN_MAX
```

The maximum length of any MIME type string given to Evernote

6.1.4.51 EDAM_MIME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MIME_LEN_MIN
```

The minimum length of any MIME type string given to Evernote

6.1.4.52 EDAM_MIME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_REGEX
```

Any MIME type string given to Evernote must match the provided pattern. E.g.: image/gif

6.1.4.53 EDAM_MIME_TYPE_AAC

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_AAC
```

Canonical MIME type string for AAC audio resources

6.1.4.54 EDAM_MIME_TYPE_AMR

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_AMR
```

Canonical MIME type string for AMR audio resources

6.1.4.55 EDAM_MIME_TYPE_DEFAULT

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_DEFAULT
```

MIME type used for attachments of an unspecified type

6.1.4.56 EDAM_MIME_TYPE_GIF

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_GIF
```

Canonical MIME type string for GIF image resources

6.1.4.57 EDAM_MIME_TYPE_INK

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_INK
```

Canonical MIME type string for Evernote Ink resources

6.1.4.58 EDAM_MIME_TYPE_JPEG

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_JPEG
```

Canonical MIME type string for JPEG image resources

6.1.4.59 EDAM_MIME_TYPE_M4A

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_M4A
```

Canonical MIME type string for MP4 audio resources

6.1.4.60 EDAM_MIME_TYPE_MP3

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_MP3
```

Canonical MIME type string for MP3 audio resources

6.1.4.61 EDAM_MIME_TYPE_MP4_VIDEO

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_MP4_VIDEO
```

Canonical MIME type string for MP4 video resources

6.1.4.62 EDAM_MIME_TYPE_PDF

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_PDF
```

Canonical MIME type string for PDF resources

6.1.4.63 EDAM_MIME_TYPE_PNG

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_PNG
```

Canonical MIME type string for PNG image resources

6.1.4.64 EDAM_MIME_TYPE_WAV

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_WAV
```

Canonical MIME type string for WAV audio resources

6.1.4.65 EDAM_MIME_TYPES

```
QEVERCLOUD_EXPORT const QSet< QString > qevercloud::EDAM_MIME_TYPES
```

The set of resource MIME types that are expected to be handled correctly by all of the major Evernote client applications.

6.1.4.66 EDAM_NOTE_CONTENT_CLASS_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_CONTENT_CLASS_LEN_MAX
```

The maximum length of the content class attribute of a note.

6.1.4.67 EDAM_NOTE_CONTENT_CLASS_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_CONTENT_CLASS_LEN_MIN
```

The minimum length of the content class attribute of a note.

6.1.4.68 EDAM_NOTE_CONTENT_CLASS_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_CONTENT_CLASS_REGEX
```

The regular expression that the content class of a note must match to be valid.

6.1.4.69 EDAM_NOTE_CONTENT_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_CONTENT_LEN_MAX
```

Maximum length of a Note.content field Note.content fields must comply with the ENML DTD.

6.1.4.70 EDAM_NOTE_CONTENT_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_CONTENT_LEN_MIN
```

Minimum length of a Note.content field. Note.content fields must comply with the ENML DTD.

6.1.4.71 EDAM_NOTE_RESOURCES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_RESOURCES_MAX
```

The maximum number of Resources per Note

6.1.4.72 EDAM_NOTE_SIZE_MAX_FREE

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_SIZE_MAX_FREE
```

Maximum total size of a Note that can be added to a Free account. The size of a note is calculated as: ENML content length (in Unicode characters) plus the sum of all resource sizes (in bytes).

6.1.4.73 EDAM_NOTE_SIZE_MAX_PREMIUM

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_SIZE_MAX_PREMIUM
```

Maximum total size of a Note that can be added to a Premium account. The size of a note is calculated as: ENML content length (in Unicode characters) plus the sum of all resource sizes (in bytes).

6.1.4.74 EDAM_NOTE_SOURCE_MAIL_CLIP

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_SOURCE_MAIL_CLIP
```

Standardized value for the 'source' NoteAttribute for notes that were clipped from an email message.

6.1.4.75 EDAM_NOTE_SOURCE_MAIL_SMTP_GATEWAY

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_SOURCE_MAIL_SMTP_GATEWAY
```

Standardized value for the 'source' NoteAttribute for notes that were created via email sent to Evernote's email interface.

6.1.4.76 EDAM_NOTE_SOURCE_WEB_CLIP

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_SOURCE_WEB_CLIP
```

Standardized value for the 'source' NoteAttribute for notes that were clipped from the web in some manner.

6.1.4.77 EDAM_NOTE_TAGS_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TAGS_MAX
```

The maximum number of Tags per Note

6.1.4.78 EDAM_NOTE_TITLE_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_LEN_MAX
```

The maximum length of a Note.title, in Unicode characters

6.1.4.79 EDAM_NOTE_TITLE_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_LEN_MIN
```

The minimum length of a Note.title, in Unicode characters

6.1.4.80 EDAM_NOTE_TITLE_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_TITLE_REGEX
```

All Note.title fields must match this pattern. This excludes control chars or line/paragraph separators. The string may not begin or end with whitespace.

6.1.4.81 EDAM_NOTEBOOK_NAME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_NAME_LEN_MAX
```

The maximum length of a Notebook.name, in Unicode characters

6.1.4.82 EDAM_NOTEBOOK_NAME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_NAME_LEN_MIN
```

The minimum length of a Notebook.name, in Unicode characters

6.1.4.83 EDAM_NOTEBOOK_NAME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTEBOOK_NAME_REGEX
```

All Notebook.name fields must match this pattern. This excludes control chars or line/paragraph separators. The string may not begin or end with whitespace.

6.1.4.84 EDAM_NOTEBOOK_SHARED_NOTEBOOK_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_SHARED_NOTEBOOK_MAX
```

Maximum number of shared notebooks per notebook

6.1.4.85 EDAM_NOTEBOOK_STACK_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_STACK_LEN_MAX
```

The maximum length of a Notebook.stack, in Unicode characters

6.1.4.86 EDAM_NOTEBOOK_STACK_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_STACK_LEN_MIN
```

The minimum length of a Notebook.stack, in Unicode characters

6.1.4.87 EDAM_NOTEBOOK_STACK_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTEBOOK_STACK_REGEX
```

All Notebook.stack fields must match this pattern. This excludes control chars or line/paragraph separators. The string may not begin or end with whitespace.

6.1.4.88 EDAM_PREFERENCE_NAME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_NAME_LEN_MAX
```

Maximum length of a preference name

6.1.4.89 EDAM_PREFERENCE_NAME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_NAME_LEN_MIN
```

Minimum length of a preference name

6.1.4.90 EDAM_PREFERENCE_NAME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_NAME_REGEX
```

A preference name must match this regex.

6.1.4.91 EDAM_PREFERENCE_SHORTCUTS

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_SHORTCUTS
```

The name of the preferences entry that contains shortcuts.

6.1.4.92 EDAM_PREFERENCE_SHORTCUTS_MAX_VALUES

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_SHORTCUTS_MAX_VALUES
```

The maximum number of shortcuts that a user may have.

6.1.4.93 EDAM_PREFERENCE_VALUE_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_VALUE_LEN_MAX
```

Maximum length of a preference value

6.1.4.94 EDAM_PREFERENCE_VALUE_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_VALUE_LEN_MIN
```

Minimum length of a preference value

6.1.4.95 EDAM_PREFERENCE_VALUE_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_VALUE_REGEX
```

A preference value must match this regex.

6.1.4.96 EDAM_PUBLISHING_DESCRIPTION_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PUBLISHING_DESCRIPTION_LEN_MAX
```

The maximum length of a Publishing.publicDescription field.

6.1.4.97 EDAM_PUBLISHING_DESCRIPTION_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PUBLISHING_DESCRIPTION_LEN_MIN
```

The minimum length of a Publishing.publicDescription field.

6.1.4.98 EDAM_PUBLISHING_DESCRIPTION_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PUBLISHING_DESCRIPTION_REGEX
```

Any public notebook's Publishing.publicDescription field must match this pattern. No control chars or line/paragraph separators, and can't start or end with whitespace.

6.1.4.99 EDAM_PUBLISHING_URI_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PUBLISHING_URI_LEN_MAX
```

The maximum length of a public notebook URI component

6.1.4.100 EDAM_PUBLISHING_URI_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PUBLISHING_URI_LEN_MIN
```

The minimum length of a public notebook URI component

6.1.4.101 EDAM_PUBLISHING_URI_PROHIBITED

```
QEVERCLOUD_EXPORT const QSet< QString > qevercloud::EDAM_PUBLISHING_URI_PROHIBITED
```

The set of strings that may not be used as a publishing URI

6.1.4.102 EDAM_PUBLISHING_URI_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PUBLISHING_URI_REGEX
```

A public notebook URI component must match the provided pattern

6.1.4.103 EDAM_RELATED_MAX_NOTEBOOKS

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_NOTEBOOKS
```

The maximum number of notebooks that will be returned from a findRelated() query.

6.1.4.104 EDAM_RELATED_MAX_NOTES

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_NOTES
```

The maximum number of notes that will be returned from a findRelated() query.

6.1.4.105 EDAM_RELATED_MAX_TAGS

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_TAGS
```

The maximum number of tags that will be returned from a findRelated() query.

6.1.4.106 EDAM_RELATED_PLAINTEXT_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_PLAINTEXT_LEN_MAX
```

The maximum length of the plain text in a findRelated query, assuming that plaintext is being provided.

6.1.4.107 EDAM_RELATED_PLAINTEXT_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_PLAINTEXT_LEN_MIN
```

The minimum length of the plain text in a findRelated query, assuming that plaintext is being provided.

6.1.4.108 EDAM_RESOURCE_SIZE_MAX_FREE

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RESOURCE_SIZE_MAX_FREE
```

Maximum size of a resource, in bytes, for Free accounts

6.1.4.109 EDAM_RESOURCE_SIZE_MAX_PREMIUM

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RESOURCE_SIZE_MAX_PREMIUM
```

Maximum size of a resource, in bytes, for Premium accounts

6.1.4.110 EDAM_SAVED_SEARCH_NAME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SAVED_SEARCH_NAME_LEN_MAX
```

The maximum length of a SavedSearch.name field

6.1.4.111 EDAM_SAVED_SEARCH_NAME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SAVED_SEARCH_NAME_LEN_MIN
```

The minimum length of a SavedSearch.name field

6.1.4.112 EDAM_SAVED_SEARCH_NAME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SAVED_SEARCH_NAME_REGEX
```

SavedSearch.name fields must match this pattern. No control chars or line/paragraph separators, and can't start or end with whitespace.

6.1.4.113 EDAM_SEARCH_QUERY_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_QUERY_LEN_MAX
```

The maximum length of a user search query string in Unicode chars

6.1.4.114 EDAM_SEARCH_QUERY_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_QUERY_LEN_MIN
```

The minimum length of a user search query string in Unicode chars

6.1.4.115 EDAM_SEARCH_QUERY_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SEARCH_QUERY_REGEX
```

Search queries must match the provided pattern. This is used for both ad-hoc queries and SavedSearch.query fields. This excludes all control characters and line/paragraph separators.

6.1.4.116 EDAM_SEARCH_SUGGESTIONS_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_SUGGESTIONS_MAX
```

Maximum number of search suggestions that can be returned

6.1.4.117 EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MAX
```

Maximum length of the search suggestion prefix

6.1.4.118 EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MIN
```

Minimum length of the search suggestion prefix

6.1.4.119 EDAM_TAG_NAME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_TAG_NAME_LEN_MAX
```

The maximum length of a Tag.name, in Unicode characters

6.1.4.120 EDAM_TAG_NAME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_TAG_NAME_LEN_MIN
```

The minimum length of a Tag.name, in Unicode characters

6.1.4.121 EDAM_TAG_NAME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_TAG_NAME_REGEX
```

All Tag.name fields must match this pattern. This excludes control chars, commas or line/paragraph separators. The string may not begin or end with whitespace.

6.1.4.122 EDAM_TIMEZONE_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_TIMEZONE_LEN_MAX
```

The maximum length of a timezone specification string

6.1.4.123 EDAM_TIMEZONE_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_TIMEZONE_LEN_MIN
```

The minimum length of a timezone specification string

6.1.4.124 EDAM_TIMEZONE_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_TIMEZONE_REGEX
```

Any timezone string given to Evernote must match the provided pattern. This permits either a locale-based standard timezone or a GMT offset. E.g.:

- America/Los_Angeles
- GMT+08:00

6.1.4.125 EDAM_USER_LINKED_NOTEBOOK_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_LINKED_NOTEBOOK_MAX
```

Maximum number of linked notebooks per account, for a free account.

6.1.4.126 EDAM_USER_LINKED_NOTEBOOK_MAX_PREMIUM

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_LINKED_NOTEBOOK_MAX_PREMIUM
```

Maximum number of linked notebooks per account, for a premium account. Users who are part of an active business are also covered under "premium".

6.1.4.127 EDAM_USER_MAIL_LIMIT_DAILY_FREE

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_MAIL_LIMIT_DAILY_FREE
```

The number of emails of any type that can be sent by a user with a Free account from the service per day. If an email is sent to two different recipients, this counts as two emails.

6.1.4.128 EDAM_USER_MAIL_LIMIT_DAILY_PREMIUM

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_MAIL_LIMIT_DAILY_PREMIUM
```

The number of emails of any type that can be sent by a user with a Premium account from the service per day. If an email is sent to two different recipients, this counts as two emails.

6.1.4.129 EDAM_USER_NAME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_NAME_LEN_MAX
```

Maximum length of the User.name field

6.1.4.130 EDAM_USER_NAME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_NAME_LEN_MIN
```

Minimum length of the User.name field

6.1.4.131 EDAM_USER_NAME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_USER_NAME_REGEX
```

The User.name field must match this pattern, which excludes line endings and control characters.

6.1.4.132 EDAM_USER_NOTEBOOKS_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_NOTEBOOKS_MAX
```

Maximum number of Notebooks per user

6.1.4.133 EDAM_USER_NOTES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_NOTES_MAX
```

Maximum number of Notes per user

6.1.4.134 EDAM_USER_PASSWORD_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_PASSWORD_LEN_MAX
```

The maximum length of an Evernote user password

6.1.4.135 EDAM_USER_PASSWORD_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_PASSWORD_LEN_MIN
```

The minimum length of an Evernote user password

6.1.4.136 EDAM_USER_PASSWORD_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_USER_PASSWORD_REGEX
```

Evernote user passwords must match this regular expression

6.1.4.137 EDAM_USER_RECENT_MAILED_ADDRESSES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_RECENT_MAILED_ADDRESSES_MAX
```

Maximum number of recent email addresses that are maintained (see UserAttributes.recentMailedAddresses)

6.1.4.138 EDAM_USER_SAVED_SEARCHES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_SAVED_SEARCHES_MAX
```

Maximum number of SavedSearches per account

6.1.4.139 EDAM_USER_TAGS_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_TAGS_MAX
```

Maximum number of Tags per account

6.1.4.140 EDAM_USER_UPLOAD_LIMIT_BUSINESS

```
QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_BUSINESS
```

The number of bytes of new data that may be uploaded to a Business user's personal account each month. Note that content uploaded into the Business notebooks by the user does not count against this limit.

6.1.4.141 EDAM_USER_UPLOAD_LIMIT_FREE

```
QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_FREE
```

The number of bytes of new data that may be uploaded to a Free user's account each month.

6.1.4.142 EDAM_USER_UPLOAD_LIMIT_PREMIUM

```
QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_PREMIUM
```

The number of bytes of new data that may be uploaded to a Premium user's account each month.

6.1.4.143 EDAM_USER_USERNAME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_USERNAME_LEN_MAX
```

The maximum length of an Evernote username

6.1.4.144 EDAM_USER_USERNAME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_USERNAME_LEN_MIN
```

The minimum length of an Evernote username

6.1.4.145 EDAM_USER_USERNAME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_USER_USERNAME_REGEX
```

Any Evernote User.username field must match this pattern. This restricts usernames to a format that could permit use as a domain name component. E.g. "username.whatever.evernote.com"

6.1.4.146 EDAM_VAT_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_VAT_REGEX
```

A regular expression that must match any VAT ID given to Evernote. ref http://en.wikipedia.↩
org/wiki/VAT_identification_number ref http://my.safaribooksonline.com/book/programming/re

6.1.4.147 EDAM_VERSION_MAJOR

```
QEVERCLOUD_EXPORT const qint16 qevercloud::EDAM_VERSION_MAJOR
```

The major version number for the current revision of the EDAM protocol. Clients pass this to the service using UserStore.checkVersion at the beginning of a session to confirm that they are not out of date.

6.1.4.148 EDAM_VERSION_MINOR

```
QEVERCLOUD_EXPORT const qint16 qevercloud::EDAM_VERSION_MINOR
```

The minor version number for the current revision of the EDAM protocol. Clients pass this to the service using UserStore.checkVersion at the beginning of a session to confirm that they are not out of date.

6.1.4.149 EverCloudExceptionData

```
class QEVERCLOUD_EXPORT qevercloud::EverCloudExceptionData
```

Chapter 7

Class Documentation

7.1 qevercloud::Accounting Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const Accounting &other) const
- bool operator!= (const Accounting &other) const

Public Attributes

- Optional< qint64 > uploadLimit
- Optional< Timestamp > uploadLimitEnd
- Optional< qint64 > uploadLimitNextMonth
- Optional< PremiumOrderStatus::type > premiumServiceStatus
- Optional< QString > premiumOrderNumber
- Optional< QString > premiumCommerceService
- Optional< Timestamp > premiumServiceStart
- Optional< QString > premiumServiceSKU
- Optional< Timestamp > lastSuccessfulCharge
- Optional< Timestamp > lastFailedCharge
- Optional< QString > lastFailedChargeReason
- Optional< Timestamp > nextPaymentDue
- Optional< Timestamp > premiumLockUntil
- Optional< Timestamp > updated
- Optional< QString > premiumSubscriptionNumber
- Optional< Timestamp > lastRequestedCharge
- Optional< QString > currency
- Optional< qint32 > unitPrice
- Optional< qint32 > businessId
- Optional< QString > businessName
- Optional< BusinessUserRole::type > businessRole
- Optional< qint32 > unitDiscount
- Optional< Timestamp > nextChargeDate

7.1.1 Detailed Description

This represents the bookkeeping information for the user's subscription.

7.1.2 Member Function Documentation

7.1.2.1 operator"!=()

```
bool qevercloud::Accounting::operator!= (
            const Accounting & other ) const  [inline]
```

7.1.2.2 operator==()

```
bool qevercloud::Accounting::operator== (
            const Accounting & other ) const  [inline]
```

7.1.3 Member Data Documentation

7.1.3.1 businessId

```
Optional< qint32 > qevercloud::Accounting::businessId
```

*DEPRECATED:*See BusinessUserInfo.

7.1.3.2 businessName

```
Optional< QString > qevercloud::Accounting::businessName
```

*DEPRECATED:*See BusinessUserInfo.

7.1.3.3 businessRole

```
Optional< BusinessUserRole::type > qevercloud::Accounting::businessRole
```

*DEPRECATED:*See BusinessUserInfo.

7.1.3.4 currency

```
Optional< QString > qevercloud::Accounting::currency
```

ISO 4217 currency code

7.1.3.5 lastFailedCharge

```
Optional< Timestamp > qevercloud::Accounting::lastFailedCharge
```

Date the last time a charge was attempted and failed.

7.1.3.6 lastFailedChargeReason

```
Optional< QString > qevercloud::Accounting::lastFailedChargeReason
```

Reason provided for the charge failure

7.1.3.7 lastRequestedCharge

```
Optional< Timestamp > qevercloud::Accounting::lastRequestedCharge
```

Date charge last attempted

7.1.3.8 lastSuccessfulCharge

```
Optional< Timestamp > qevercloud::Accounting::lastSuccessfulCharge
```

Date the last time the user was charged. Null if never charged.

7.1.3.9 nextChargeDate

```
Optional< Timestamp > qevercloud::Accounting::nextChargeDate
```

The next time the user will be charged, may or may not be the same as nextPaymentDue

7.1.3.10 nextPaymentDue

```
Optional< Timestamp > qevercloud::Accounting::nextPaymentDue
```

The end of the billing cycle. This could be in the past if there are failed charges.

7.1.3.11 premiumCommerceService

```
Optional< QString > qevercloud::Accounting::premiumCommerceService
```

The commerce system used (paypal, Google checkout, etc)

7.1.3.12 premiumLockUntil

```
Optional< Timestamp > qevercloud::Accounting::premiumLockUntil
```

An internal variable to manage locking operations on the commerce variables.

7.1.3.13 premiumOrderNumber

```
Optional< QString > qevercloud::Accounting::premiumOrderNumber
```

The order number used by the commerce system to process recurring payments

7.1.3.14 premiumServiceSKU

```
Optional< QString > qevercloud::Accounting::premiumServiceSKU
```

The code associated with the purchase eg. monthly or annual purchase. Clients should interpret this value and localize it.

7.1.3.15 premiumServiceStart

```
Optional< Timestamp > qevercloud::Accounting::premiumServiceStart
```

The start date when this premium promotion began (this number will get overwritten if a premium service is canceled and then re-activated).

7.1.3.16 premiumServiceStatus

```
Optional< PremiumOrderStatus::type > qevercloud::Accounting::premiumServiceStatus
```

Indicates the phases of a premium account during the billing process.

7.1.3.17 premiumSubscriptionNumber

```
Optional< QString > qevercloud::Accounting::premiumSubscriptionNumber
```

The number number identifying the recurring subscription used to make the recurring charges.

7.1.3.18 unitDiscount

```
Optional< qint32 > qevercloud::Accounting::unitDiscount
```

discount per seat in negative amount and smallest unit of the currency (e.g. cents for USD)

7.1.3.19 unitPrice

```
Optional< qint32 > qevercloud::Accounting::unitPrice
```

charge in the smallest unit of the currency (e.g. cents for USD)

7.1.3.20 updated

```
Optional< Timestamp > qevercloud::Accounting::updated
```

The date any modification where made to this record.

7.1.3.21 uploadLimit

```
Optional< qint64 > qevercloud::Accounting::uploadLimit
```

The number of bytes that can be uploaded to the account in the current month. For new notes that are created, this is the length of the note content (in Unicode characters) plus the size of each resource (in bytes). For edited notes, this is the the difference between the old length and the new length (if this is greater than 0) plus the size of each new resource.

7.1.3.22 uploadLimitEnd

```
Optional< Timestamp > qevercloud::Accounting::uploadLimitEnd
```

The date and time when the current upload limit expires. At this time, the monthly upload count reverts to 0 and a new limit is imposed. This date and time is exclusive, so this is effectively the start of the new month.

7.1.3.23 uploadLimitNextMonth

```
Optional< qint64 > qevercloud::Accounting::uploadLimitNextMonth
```

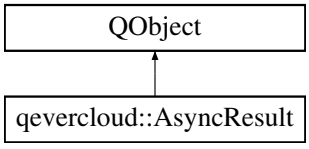
When uploadLimitEnd is reached, the service will change uploadLimit to uploadLimitNextMonth. If a premium account is canceled, this mechanism will reset the quota appropriately.

7.2 qevercloud::AsyncResult Class Reference

Returned by asynchonous versions of functions.

```
#include <AsyncResult.h>
```

Inheritance diagram for qevercloud::AsyncResult:



Public Types

- typedef QVariant(∗ ReadFunctionType) (QByteArray replyData)

Signals

- void finished (QVariant result, QSharedPointer< EverCloudExceptionData > error)

  Emitted upon asyncronous call completition.

Public Member Functions

- AsyncResult (QString url, QByteArray postData, ReadFunctionType readFunction=AsyncResult::asIs, bool autoDelete=true, QObject ∗parent=Q_NULLPTR)
- AsyncResult (QNetworkRequest request, QByteArray postData, ReadFunctionType readFunction=AsyncResult::asIs, bool autoDelete=true, QObject ∗parent=Q_NULLPTR)
- ∼AsyncResult ()
- bool waitForFinished (int timeout=-1)

  Wait for asyncronous operation to complete.

7.2.1 Detailed Description

Returned by asynchonous versions of functions.

Wait for AsyncResult::finished signal.

Intended usage is something like this:

```
NoteStore* ns;
Note note;
...
QObject::connect(ns->createNoteAsync(note), &AsyncResult::finished, [ns](QVariant
      result, QSharedPointer<EverCloudExceptionData> error) {
    if(!error.isNull()) {
        // do something in case of an error
    } else {
        Note note = result.value<Note>();
        // process returned result
    }
});
```

7.2.2 Member Typedef Documentation

7.2.2.1 ReadFunctionType

```
typedef QVariant(* qevercloud::AsyncResult::ReadFunctionType) (QByteArray replyData)
```

7.2.3 Constructor & Destructor Documentation

7.2.3.1 AsyncResult() [1/2]

```
qevercloud::AsyncResult::AsyncResult (
            QString url,
            QByteArray postData,
            ReadFunctionType readFunction = AsyncResult::asIs,
            bool autoDelete = true,
            QObject * parent = Q_NULLPTR )
```

7.2.3.2 AsyncResult() [2/2]

```
qevercloud::AsyncResult::AsyncResult (
            QNetworkRequest request,
            QByteArray postData,
            ReadFunctionType readFunction = AsyncResult::asIs,
            bool autoDelete = true,
            QObject * parent = Q_NULLPTR )
```

7.2.3.3 ~AsyncResult()

```
qevercloud::AsyncResult::~AsyncResult ( )
```

7.2.4 Member Function Documentation

7.2.4.1 finished

```
void qevercloud::AsyncResult::finished (
            QVariant result,
            QSharedPointer< EverCloudExceptionData > error )  [signal]
```

Emitted upon asyncronous call completition.

Parameters

result	
error	error.isNull() != true in case of an error. See EverCloudExceptionData for more details.

AsyncResult deletes itself after emitting this signal. You don't have to manage it's lifetime explicitly.

7.2.4.2 waitForFinished()

```
bool qevercloud::AsyncResult::waitForFinished (
```

```
            int timeout = -1 )
```

Wait for asyncronous operation to complete.

Parameters

timeout	Maximum time to wait in milliseconds. Forever if < 0.

Returns

true if finished succesfully, flase in case of the timeout

7.3 qevercloud::AuthenticationResult Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const AuthenticationResult &other) const
- bool operator!= (const AuthenticationResult &other) const

Public Attributes

- Timestamp currentTime
- QString authenticationToken
- Timestamp expiration
- Optional< User > user
- Optional< PublicUserInfo > publicUserInfo
- Optional< QString > noteStoreUrl
- Optional< QString > webApiUrlPrefix
- Optional< bool > secondFactorRequired
- Optional< QString > secondFactorDeliveryHint

7.3.1 Detailed Description

When an authentication (or re-authentication) is performed, this structure provides the result to the client.

7.3.2 Member Function Documentation

7.3.2.1 operator"!=()

```
bool qevercloud::AuthenticationResult::operator!= (
            const AuthenticationResult & other ) const  [inline]
```

7.3.2.2 operator==()

```
bool qevercloud::AuthenticationResult::operator== (
            const AuthenticationResult & other ) const  [inline]
```

7.3.3 Member Data Documentation

7.3.3.1 authenticationToken

```
QString qevercloud::AuthenticationResult::authenticationToken
```

Holds an opaque, ASCII-encoded token that can be used by the client to perform actions on a NoteStore.

7.3.3.2 currentTime

```
Timestamp qevercloud::AuthenticationResult::currentTime
```

The server-side date and time when this result was generated.

7.3.3.3 expiration

```
Timestamp qevercloud::AuthenticationResult::expiration
```

Holds the server-side date and time when the authentication token will expire. This time can be compared to "currentTime" to produce an expiration time that can be reconciled with the client's local clock.

7.3.3.4 noteStoreUrl

```
Optional< QString > qevercloud::AuthenticationResult::noteStoreUrl
```

This field will contain the full URL that clients should use to make NoteStore requests to the server shard that contains that user's data. I.e. this is the URL that should be used to create the Thrift HTTP client transport to send messages to the NoteStore service for the account.

7.3.3.5 publicUserInfo

```
Optional< PublicUserInfo > qevercloud::AuthenticationResult::publicUserInfo
```

If this authentication result was achieved without full permissions to access the full User structure, this field may be set to give back a more limited public set of data.

7.3.3.6 secondFactorDeliveryHint

```
Optional< QString > qevercloud::AuthenticationResult::secondFactorDeliveryHint
```

When secondFactorRequired is set to true, this field may contain a string describing the second factor delivery method that the user has configured. This will typically be an obfuscated mobile device number, such as "(xxx) xxx-x095". This string can be displayed to the user to remind them how to obtain the required second factor. TODO do we need to differentiate between SMS and voice delivery?

7.3.3.7 secondFactorRequired

```
Optional< bool > qevercloud::AuthenticationResult::secondFactorRequired
```

If set to true, this field indicates that the user has enabled two-factor authentication and must enter their second factor in order to complete authentication. In this case the value of authenticationResult will be a short-lived authentication token that may only be used to make a subsequent call to completeTwoFactorAuthentication.

7.3.3.8 user

```
Optional< User > qevercloud::AuthenticationResult::user
```

Holds the information about the account which was authenticated if this was a full authentication. May be absent if this particular authentication did not require user information.

7.3.3.9 webApiUrlPrefix

```
Optional< QString > qevercloud::AuthenticationResult::webApiUrlPrefix
```

This field will contain the initial part of the URLs that should be used to make requests to Evernote's thin client "web API", which provide optimized operations for clients that aren't capable of manipulating the full contents of accounts via the full Thrift data model. Clients should concatenate the relative path for the various servlets onto the end of this string to construct the full URL, as documented on our developer web site.

7.4 qevercloud::BootstrapInfo Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const BootstrapInfo &other) const
- bool operator!= (const BootstrapInfo &other) const

Public Attributes

- QList< BootstrapProfile > profiles

7.4.1 Detailed Description

This structure describes a collection of bootstrap profiles.

7.4.2 Member Function Documentation

7.4.2.1 operator"!=()

```
bool qevercloud::BootstrapInfo::operator!= (
            const BootstrapInfo & other ) const  [inline]
```

7.4.2.2 operator==()

```
bool qevercloud::BootstrapInfo::operator== (
            const BootstrapInfo & other ) const  [inline]
```

7.4.3 Member Data Documentation

7.4.3.1 profiles

```
QList< BootstrapProfile > qevercloud::BootstrapInfo::profiles
```

List of one or more bootstrap profiles, in descending preference order.

7.5 qevercloud::BootstrapProfile Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const BootstrapProfile &other) const
- bool operator!= (const BootstrapProfile &other) const

Public Attributes

- QString name
- BootstrapSettings settings

7.5.1 Detailed Description

This structure describes a collection of bootstrap settings.

7.5.2 Member Function Documentation

7.5.2.1 operator"!=()

```
bool qevercloud::BootstrapProfile::operator!= (
            const BootstrapProfile & other ) const  [inline]
```

7.5.2.2 operator==()

```
bool qevercloud::BootstrapProfile::operator== (
            const BootstrapProfile & other ) const  [inline]
```

7.5.3 Member Data Documentation

7.5.3.1 name

```
QString qevercloud::BootstrapProfile::name
```

The unique name of the profile, which is guaranteed to remain consistent across calls to getBootstrapInfo.

7.5.3.2 settings

```
BootstrapSettings qevercloud::BootstrapProfile::settings
```

The settings for this profile.

7.6 qevercloud::BootstrapSettings Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const BootstrapSettings &other) const
- bool operator!= (const BootstrapSettings &other) const

Public Attributes

- QString serviceHost
- QString marketingUrl
- QString supportUrl
- QString accountEmailDomain
- Optional< bool > enableFacebookSharing
- Optional< bool > enableGiftSubscriptions
- Optional< bool > enableSupportTickets
- Optional< bool > enableSharedNotebooks
- Optional< bool > enableSingleNoteSharing
- Optional< bool > enableSponsoredAccounts
- Optional< bool > enableTwitterSharing
- Optional< bool > enableLinkedInSharing
- Optional< bool > enablePublicNotebooks

7.6.1 Detailed Description

This structure describes a collection of bootstrap settings.

7.6.2 Member Function Documentation

7.6.2.1 operator"!=()

```
bool qevercloud::BootstrapSettings::operator!= (
            const BootstrapSettings & other ) const  [inline]
```

7.6.2.2 operator==()

```
bool qevercloud::BootstrapSettings::operator== (
            const BootstrapSettings & other ) const  [inline]
```

7.6.3 Member Data Documentation

7.6.3.1 accountEmailDomain

```
QString qevercloud::BootstrapSettings::accountEmailDomain
```

The domain used for an Evernote user's incoming email address, which allows notes to be emailed into an account. E.g. m.evernote.com.

7.6.3.2 enableFacebookSharing

```
Optional< bool > qevercloud::BootstrapSettings::enableFacebookSharing
```

Whether the client application should enable sharing of notes on Facebook.

7.6.3.3 enableGiftSubscriptions

```
Optional< bool > qevercloud::BootstrapSettings::enableGiftSubscriptions
```

Whether the client application should enable gift subscriptions.

7.6.3.4 enableLinkedInSharing

```
Optional< bool > qevercloud::BootstrapSettings::enableLinkedInSharing
```

NOT DOCUMENTED

7.6.3.5 enablePublicNotebooks

```
Optional< bool > qevercloud::BootstrapSettings::enablePublicNotebooks
```

NOT DOCUMENTED

7.6.3.6 enableSharedNotebooks

```
Optional< bool > qevercloud::BootstrapSettings::enableSharedNotebooks
```

Whether the client application should enable shared notebooks.

7.6.3.7 enableSingleNoteSharing

```
Optional< bool > qevercloud::BootstrapSettings::enableSingleNoteSharing
```

Whether the client application should enable single note sharing.

7.6.3.8 enableSponsoredAccounts

```
Optional< bool > qevercloud::BootstrapSettings::enableSponsoredAccounts
```

Whether the client application should enable sponsored accounts.

7.6.3.9 enableSupportTickets

```
Optional< bool > qevercloud::BootstrapSettings::enableSupportTickets
```

Whether the client application should enable in-client creation of support tickets.

7.6.3.10 enableTwitterSharing

```
Optional< bool > qevercloud::BootstrapSettings::enableTwitterSharing
```

Whether the client application should enable sharing of notes on Twitter.

7.6.3.11 marketingUrl

```
QString qevercloud::BootstrapSettings::marketingUrl
```

The URL stem for the Evernote corporate marketing website, e.g. http://www.evernote.com. This stem can be used to compose website URLs. For example, the URL of the Evernote Trunk is composed by appending "/about/trunk/" to the value of marketingUrl.

7.6.3.12 serviceHost

```
QString qevercloud::BootstrapSettings::serviceHost
```

The hostname and optional port for composing Evernote web service URLs. This URL can be used to access the UserStore and related services, but must not be used to compose the NoteStore URL. Client applications must handle serviceHost values that include only the hostname (e.g. www.evernote.com) or both the hostname and port (e.g. www.evernote.com:8080). If no port is specified, or if port 443 is specified, client applications must use the scheme "https" when composing URLs. Otherwise, a client must use the scheme "http".

7.6.3.13 supportUrl

```
QString qevercloud::BootstrapSettings::supportUrl
```

The full URL for the Evernote customer support website, e.g. https://support.evernote.com.

7.7 qevercloud::BusinessNotebook Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const BusinessNotebook &other) const
- bool operator!= (const BusinessNotebook &other) const

Public Attributes

- Optional< QString > notebookDescription
- Optional< SharedNotebookPrivilegeLevel::type > privilege
- Optional< bool > recommended

7.7.1 Detailed Description

If a Notebook contained in an Evernote Business account has been published the to business library, the Notebook will have a reference to one of these structures, which specifies how the Notebook will be represented in the library.

7.7.2 Member Function Documentation

7.7.2.1 operator"!=()

```
bool qevercloud::BusinessNotebook::operator!= (
            const BusinessNotebook & other ) const  [inline]
```

7.7.2.2 operator==()

```
bool qevercloud::BusinessNotebook::operator== (
            const BusinessNotebook & other ) const  [inline]
```

7.7.3 Member Data Documentation

7.7.3.1 notebookDescription

```
Optional< QString > qevercloud::BusinessNotebook::notebookDescription
```

A short description of the notebook's content that will be displayed in the business library user interface. The description may not begin or end with whitespace.
Length: EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LEN_MIN - EDAM_BUSINESS_NOTEBOOK_DESC↩
RIPTION_LEN_MAX
Regex: EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_REGEX

7.7.3.2 privilege

```
Optional< SharedNotebookPrivilegeLevel::type > qevercloud::BusinessNotebook::privilege
```

The privileges that will be granted to users who join the notebook through the business library.

7.7.3.3 recommended

```
Optional< bool > qevercloud::BusinessNotebook::recommended
```

Whether the notebook should be "recommended" when displayed in the business library user interface.

7.8 qevercloud::BusinessUserInfo Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const BusinessUserInfo &other) const
- bool operator!= (const BusinessUserInfo &other) const

Public Attributes

- Optional< qint32 > businessId
- Optional< QString > businessName
- Optional< BusinessUserRole::type > role
- Optional< QString > email

7.8.1 Detailed Description

This structure is used to provide information about an Evernote Business membership, for members who are part of a business.

7.8.2 Member Function Documentation

7.8.2.1 operator"!=()

```
bool qevercloud::BusinessUserInfo::operator!= (
            const BusinessUserInfo & other ) const  [inline]
```

7.8.2.2 operator==()

```
bool qevercloud::BusinessUserInfo::operator== (
            const BusinessUserInfo & other ) const  [inline]
```

7.8.3 Member Data Documentation

7.8.3.1 businessId

```
Optional< qint32 > qevercloud::BusinessUserInfo::businessId
```

The ID of the Evernote Business account that the user is a member of.

businessName The human-readable name of the Evernote Business account that the user is a member of.

7.8.3.2 businessName

```
Optional< QString > qevercloud::BusinessUserInfo::businessName
```

NOT DOCUMENTED

7.8.3.3 email

```
Optional< QString > qevercloud::BusinessUserInfo::email
```

An e-mail address that will be used by the service in the context of your Evernote Business activities. For example, this e-mail address will be used when you e-mail a business note, when you update notes in the account of your business, etc. The business e-mail cannot be used for identification purposes such as for logging into the service.

7.8.3.4 role

```
Optional< BusinessUserRole::type > qevercloud::BusinessUserInfo::role
```

The role of the user within the Evernote Business account that they are a member of.

7.9 qevercloud::BusinessUserRole Struct Reference

```
#include <types.h>
```

Public Types

- enum type { ADMIN = 1, NORMAL = 2 }

7.9.1 Detailed Description

Enumeration of the roles that a User can have within an Evernote Business account.

ADMIN: The user is an administrator of the Evernote Business account.

NORMAL: The user is a regular user within the Evernote Business account.

7.9.2 Member Enumeration Documentation

7.9.2.1 type

```
enum qevercloud::BusinessUserRole::type
```

Enumerator

ADMIN	
NORMAL	

7.10 qevercloud::ClientUsageMetrics Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const ClientUsageMetrics &other) const
- bool operator!= (const ClientUsageMetrics &other) const

Public Attributes

- Optional< qint32 > sessions

7.10.1 Detailed Description

This structure is passed from clients to the Evernote service when they wish to relay coarse-grained usage metrics to the service to help improve products.

7.10.2 Member Function Documentation

7.10.2.1 operator"!=()

```
bool qevercloud::ClientUsageMetrics::operator!= (
            const ClientUsageMetrics & other ) const  [inline]
```

7.10.2.2 operator==()

```
bool qevercloud::ClientUsageMetrics::operator== (
            const ClientUsageMetrics & other ) const  [inline]
```

7.10.3 Member Data Documentation

7.10.3.1 sessions

```
Optional< qint32 > qevercloud::ClientUsageMetrics::sessions
```

This field contains a count of the number of usage "sessions" that have occurred with this client which have not previously been reported to the service. A "session" is defined as one of the 96 fifteen-minute intervals of the day when someone used Evernote's interface at least once. So if a user interacts with an Evernote client at 12:18, 12↩:24, and 12:36, and then the client synchronizes at 12:39, it would report that there were two previously-unreported sessions (one session for the 12:15-12:30 time period, and one for the 12:30-12:45 period). If the user used Evernote again at 12:41 and synchronized at 12:43, it would not report any new sessions, because the 12:30-12:45 session had already been reported.

7.11 qevercloud::Data Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const Data &other) const
- bool operator!= (const Data &other) const

Public Attributes

- Optional< QByteArray > bodyHash
- Optional< qint32 > size
- Optional< QByteArray > body

7.11.1 Detailed Description

In several places, EDAM exchanges blocks of bytes of data for a component which may be relatively large. For example: the contents of a clipped HTML note, the bytes of an embedded image, or the recognition XML for a large image. This structure is used in the protocol to represent any of those large blocks of data when they are transmitted or when they are only referenced their metadata.

7.11.2 Member Function Documentation

7.11.2.1 operator"!=()

```
bool qevercloud::Data::operator!= (
            const Data & other ) const  [inline]
```

7.11.2.2 operator==()

```
bool qevercloud::Data::operator== (
            const Data & other ) const  [inline]
```

7.11.3 Member Data Documentation

7.11.3.1 body

```
Optional< QByteArray > qevercloud::Data::body
```

This field is set to contain the binary contents of the data whenever the resource is being transferred. If only metadata is being exchanged, this field will be empty. For example, a client could notify the service about the change to an attribute for a resource without transmitting the binary resource contents.

7.11.3.2 bodyHash

```
Optional< QByteArray > qevercloud::Data::bodyHash
```

This field carries a one-way hash of the contents of the data body, in binary form. The hash function is MD5 Length: EDAM_HASH_LEN (exactly)

7.11.3.3 size

```
Optional< qint32 > qevercloud::Data::size
```

The length, in bytes, of the data body.

7.12 qevercloud::EDAMErrorCode Struct Reference

```
#include <EDAMErrorCode.h>
```

Public Types

- enum type {
  UNKNOWN = 1, BAD_DATA_FORMAT = 2, PERMISSION_DENIED = 3, INTERNAL_ERROR = 4,
  DATA_REQUIRED = 5, LIMIT_REACHED = 6, QUOTA_REACHED = 7, INVALID_AUTH = 8,
  AUTH_EXPIRED = 9, DATA_CONFLICT = 10, ENML_VALIDATION = 11, SHARD_UNAVAILABLE = 12,
  LEN_TOO_SHORT = 13, LEN_TOO_LONG = 14, TOO_FEW = 15, TOO_MANY = 16,
  UNSUPPORTED_OPERATION = 17, TAKEN_DOWN = 18, RATE_LIMIT_REACHED = 19 }

7.12.1 Detailed Description

Numeric codes indicating the type of error that occurred on the service.

UNKNOWN No information available about the error

BAD_DATA_FORMAT The format of the request data was incorrect

PERMISSION_DENIED Not permitted to perform action

INTERNAL_ERROR Unexpected problem with the service

DATA_REQUIRED A required parameter/field was absent

LIMIT_REACHED Operation denied due to data model limit

QUOTA_REACHED Operation denied due to user storage limit

INVALID_AUTH Username and/or password incorrect

AUTH_EXPIRED Authentication token expired

DATA_CONFLICT Change denied due to data model conflict

ENML_VALIDATION Content of submitted note was malformed

SHARD_UNAVAILABLE Service shard with account data is temporarily down

LEN_TOO_SHORT Operation denied due to data model limit, where something such as a string length was too short

LEN_TOO_LONG Operation denied due to data model limit, where something such as a string length was too long

TOO_FEW Operation denied due to data model limit, where there were too few of something.

TOO_MANY Operation denied due to data model limit, where there were too many of something.

UNSUPPORTED_OPERATION Operation denied because it is currently unsupported.

TAKEN_DOWN Operation denied because access to the corresponding object is prohibited in response to a take-down notice.

RATE_LIMIT_REACHED Operation denied because the calling application has reached its hourly API call limit for this user.

7.12.2 Member Enumeration Documentation

Enumerator

7.12.2.1 type

`enum qevercloud::EDAMErrorCode::type`

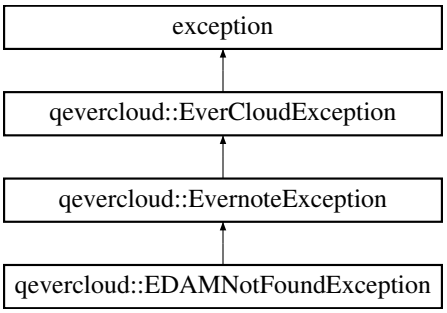
Enumerator

UNKNOWN	
BAD_DATA_FORMAT	
PERMISSION_DENIED	
INTERNAL_ERROR	
DATA_REQUIRED	
LIMIT_REACHED	
QUOTA_REACHED	
INVALID_AUTH	
AUTH_EXPIRED	
DATA_CONFLICT	
ENML_VALIDATION	
SHARD_UNAVAILABLE	
LEN_TOO_SHORT	
LEN_TOO_LONG	
TOO_FEW	
TOO_MANY	
UNSUPPORTED_OPERATION	
TAKEN_DOWN	
RATE_LIMIT_REACHED	

7.13 qevercloud::EDAMNotFoundException Class Reference

`#include <types.h>`

Inheritance diagram for qevercloud::EDAMNotFoundException:



Public Member Functions

- EDAMNotFoundException ()
- ~EDAMNotFoundException () throw ()
- const char * what () const Q_DECL_OVERRIDE throw ()
- virtual QSharedPointer< EverCloudExceptionData > exceptionData () const Q_DECL_OVERRIDE

Public Attributes

- Optional< QString > identifier
- Optional< QString > key

Additional Inherited Members

7.13.1 Detailed Description

This exception is thrown by EDAM procedures when a caller asks to perform an operation on an object that does not exist. This may be thrown based on an invalid primary identifier (e.g. a bad GUID), or when the caller refers to an object by another unique identifier (e.g. a User's email address).

identifier: A description of the object that was not found on the server. For example, "Note.notebookGuid" when a caller attempts to create a note in a notebook that does not exist in the user's account.

key: The value passed from the client in the identifier, which was not found. For example, the GUID that was not found.

7.13.2 Constructor & Destructor Documentation

7.13.2.1 EDAMNotFoundException()

```
qevercloud::EDAMNotFoundException::EDAMNotFoundException ( )  [inline]
```

7.13.2.2 ~EDAMNotFoundException()

```
qevercloud::EDAMNotFoundException::~EDAMNotFoundException ( ) throw )   [inline]
```

7.13.3 Member Function Documentation

7.13.3.1 exceptionData()

```
virtual QSharedPointer<EverCloudExceptionData> qevercloud::EDAMNotFoundException::exception↩
Data ( ) const  [virtual]
```

Reimplemented from qevercloud::EvernoteException.

7.13.3.2 what()

```
const char* qevercloud::EDAMNotFoundException::what ( ) const throw )
```

7.13.4 Member Data Documentation

7.13.4.1 identifier

```
Optional< QString > qevercloud::EDAMNotFoundException::identifier
```

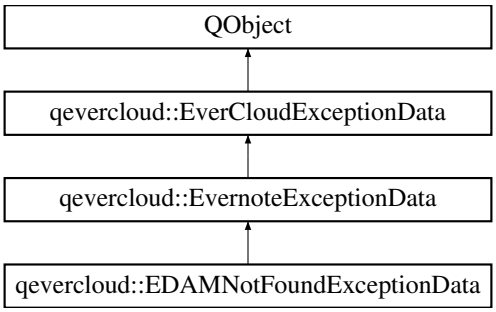
7.13.4.2 key

```
Optional< QString > qevercloud::EDAMNotFoundException::key
```

7.14 qevercloud::EDAMNotFoundExceptionData Class Reference

```
#include <exceptions.h>
```

Inheritance diagram for qevercloud::EDAMNotFoundExceptionData:



Public Member Functions

- EDAMNotFoundExceptionData (QString error, Optional< QString > identifier, Optional< QString > key)
- virtual void throwException () const Q_DECL_OVERRIDE

Protected Attributes

- Optional< QString > m_identifier
- Optional< QString > m_key

Additional Inherited Members

7.14.1 Detailed Description

Asynchronous API conterpart of EDAMNotFoundException. See EverCloudExceptionData for more details.

7.14.2 Constructor & Destructor Documentation

7.14.2.1 EDAMNotFoundExceptionData()

```
qevercloud::EDAMNotFoundExceptionData::EDAMNotFoundExceptionData (
            QString error,
            Optional< QString > identifier,
            Optional< QString > key )  [explicit]
```

7.14.3 Member Function Documentation

7.14.3.1 throwException()

```
virtual void qevercloud::EDAMNotFoundExceptionData::throwException ( ) const  [virtual]
```

If you want to throw an exception that corresponds to a recrived EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EvernoteExceptionData.

7.14.4 Member Data Documentation

7.14.4.1 m_identifier

```
Optional<QString> qevercloud::EDAMNotFoundExceptionData::m_identifier  [protected]
```

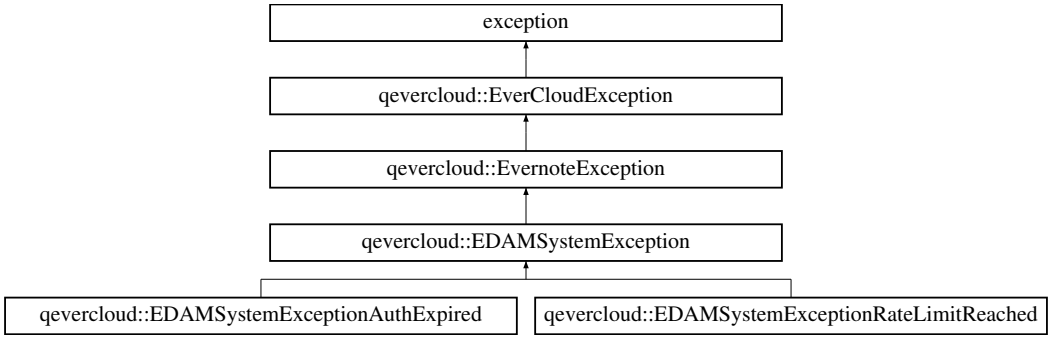
7.14.4.2 m_key

```
Optional<QString> qevercloud::EDAMNotFoundExceptionData::m_key  [protected]
```

7.15 qevercloud::EDAMSystemException Class Reference

`#include <types.h>`

Inheritance diagram for qevercloud::EDAMSystemException:



Public Member Functions

- EDAMSystemException ()
- ~EDAMSystemException () throw ()
- const char * what () const Q_DECL_OVERRIDE throw ()
- virtual QSharedPointer< EverCloudExceptionData > exceptionData () const Q_DECL_OVERRIDE

Public Attributes

- EDAMErrorCode::type errorCode
- Optional< QString > message
- Optional< qint32 > rateLimitDuration

Additional Inherited Members

7.15.1 Detailed Description

This exception is thrown by EDAM procedures when a call fails as a result of a problem in the service that could not be changed through caller action.

errorCode: The numeric code indicating the type of error that occurred. must be one of the values of EDAMError↩ Code.

message: This may contain additional information about the error

rateLimitDuration: Indicates the minimum number of seconds that an application should expect subsequent API calls for this user to fail. The application should not retry API requests for the user until at least this many seconds have passed. Present only when errorCode is RATE_LIMIT_REACHED,

7.15.2 Constructor & Destructor Documentation

7.15.2.1 EDAMSystemException()

```
qevercloud::EDAMSystemException::EDAMSystemException ( )  [inline]
```

7.15.2.2 ~EDAMSystemException()

```
qevercloud::EDAMSystemException::~EDAMSystemException ( ) throw )  [inline]
```

7.15.3 Member Function Documentation

7.15.3.1 exceptionData()

```
virtual QSharedPointer<EverCloudExceptionData> qevercloud::EDAMSystemException::exceptionData
( ) const  [virtual]
```

Reimplemented from qevercloud::EvernoteException.

Reimplemented in qevercloud::EDAMSystemExceptionAuthExpired, and qevercloud::EDAMSystemException↩RateLimitReached.

7.15.3.2 what()

```
const char* qevercloud::EDAMSystemException::what ( ) const throw )
```

7.15.4 Member Data Documentation

7.15.4.1 errorCode

```
EDAMErrorCode::type qevercloud::EDAMSystemException::errorCode
```

7.15.4.2 message

```
Optional< QString > qevercloud::EDAMSystemException::message
```

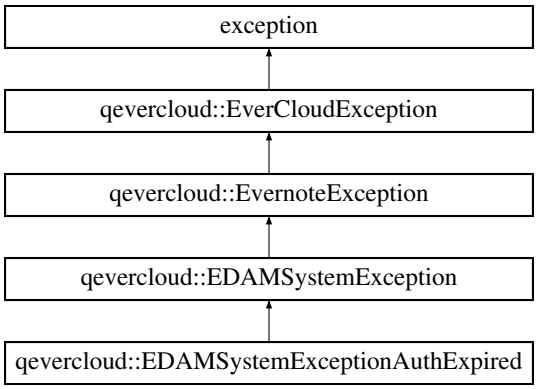
7.15.4.3 rateLimitDuration

```
Optional< qint32 > qevercloud::EDAMSystemException::rateLimitDuration
```

7.16 qevercloud::EDAMSystemExceptionAuthExpired Class Reference

```
#include <exceptions.h>
```

Inheritance diagram for qevercloud::EDAMSystemExceptionAuthExpired:



Public Member Functions

- virtual QSharedPointer< EverCloudExceptionData > exceptionData () const Q_DECL_OVERRIDE

Additional Inherited Members

7.16.1 Detailed Description

EDAMSystemException for `errorCode = AUTH_EXPIRED`

7.16.2 Member Function Documentation

7.16.2.1 exceptionData()

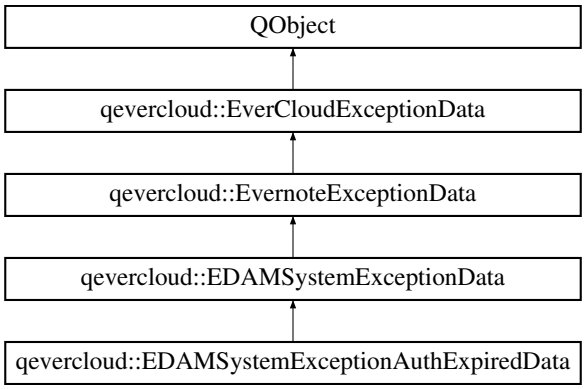
```
virtual QSharedPointer<EverCloudExceptionData> qevercloud::EDAMSystemExceptionAuthExpired↩
::exceptionData ( ) const  [virtual]
```

Reimplemented from qevercloud::EDAMSystemException.

7.17 qevercloud::EDAMSystemExceptionAuthExpiredData Class Reference

`#include <exceptions.h>`

Inheritance diagram for qevercloud::EDAMSystemExceptionAuthExpiredData:



Public Member Functions

- EDAMSystemExceptionAuthExpiredData (QString error, EDAMErrorCode::type errorCode, Optional< QString > message, Optional< qint32 > rateLimitDuration)
- virtual void throwException () const Q_DECL_OVERRIDE

Additional Inherited Members

7.17.1 Detailed Description

Asynchronous API conterpart of EDAMSystemExceptionAuthExpired. See EverCloudExceptionData for more details.

7.17.2 Constructor & Destructor Documentation

7.17.2.1 EDAMSystemExceptionAuthExpiredData()

```
qevercloud::EDAMSystemExceptionAuthExpiredData::EDAMSystemExceptionAuthExpiredData (
            QString error,
            EDAMErrorCode::type errorCode,
            Optional< QString > message,
            Optional< qint32 > rateLimitDuration )  [explicit]
```

7.17.3 Member Function Documentation

7.17.3.1 throwException()

```
virtual void qevercloud::EDAMSystemExceptionAuthExpiredData::throwException ( ) const  [virtual]
```

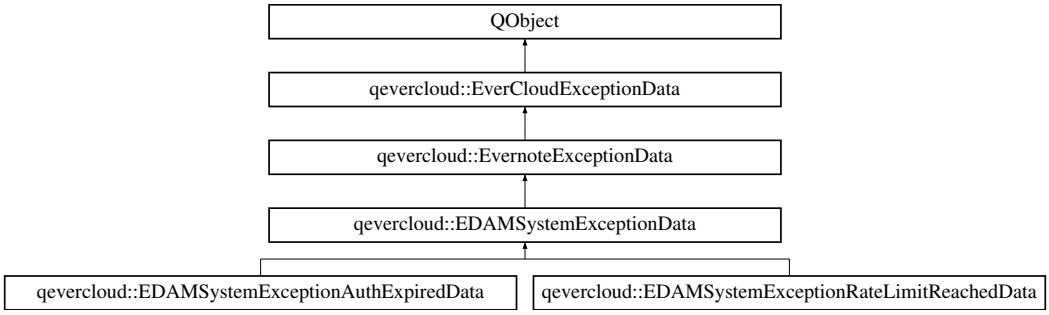
If you want to throw an exception that corresponds to a recrived EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EDAMSystemExceptionData.

7.18 qevercloud::EDAMSystemExceptionData Class Reference

```
#include <exceptions.h>
```

Inheritance diagram for qevercloud::EDAMSystemExceptionData:



Public Member Functions

- EDAMSystemExceptionData (QString err, EDAMErrorCode::type errorCode, Optional< QString > message, Optional< qint32 > rateLimitDuration)
- virtual void throwException () const Q_DECL_OVERRIDE

Protected Attributes

- EDAMErrorCode::type m_errorCode
- Optional< QString > m_message
- Optional< qint32 > m_rateLimitDuration

Additional Inherited Members

7.18.1 Detailed Description

Asynchronous API conterpart of EDAMSystemException. See EverCloudExceptionData for more details.

7.18.2 Constructor & Destructor Documentation

7.18.2.1 EDAMSystemExceptionData()

```
qevercloud::EDAMSystemExceptionData::EDAMSystemExceptionData (
            QString err,
            EDAMErrorCode::type errorCode,
            Optional< QString > message,
            Optional< qint32 > rateLimitDuration )  [explicit]
```

7.18.3 Member Function Documentation

7.18.3.1 throwException()

```
virtual void qevercloud::EDAMSystemExceptionData::throwException ( ) const  [virtual]
```

If you want to throw an exception that corresponds to a recrived EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EvernoteExceptionData.

Reimplemented in qevercloud::EDAMSystemExceptionAuthExpiredData, and qevercloud::EDAMSystem↩ ExceptionRateLimitReachedData.

7.18.4 Member Data Documentation

7.18.4.1 m_errorCode

```
EDAMErrorCode::type qevercloud::EDAMSystemExceptionData::m_errorCode  [protected]
```

7.18.4.2 m_message

```
Optional<QString> qevercloud::EDAMSystemExceptionData::m_message  [protected]
```

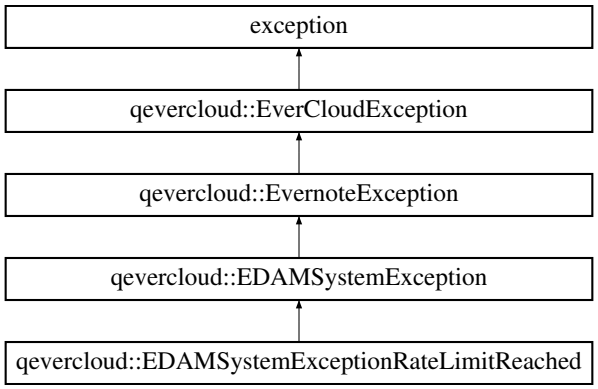
7.18.4.3 m_rateLimitDuration

```
Optional<qint32> qevercloud::EDAMSystemExceptionData::m_rateLimitDuration  [protected]
```

7.19 qevercloud::EDAMSystemExceptionRateLimitReached Class Reference

`#include <exceptions.h>`

Inheritance diagram for qevercloud::EDAMSystemExceptionRateLimitReached:



Public Member Functions

- virtual QSharedPointer< EverCloudExceptionData > exceptionData () const Q_DECL_OVERRIDE

Additional Inherited Members

7.19.1 Detailed Description

EDAMSystemException for `errorCode = RATE_LIMIT_REACHED`

7.19.2 Member Function Documentation

7.19.2.1 exceptionData()

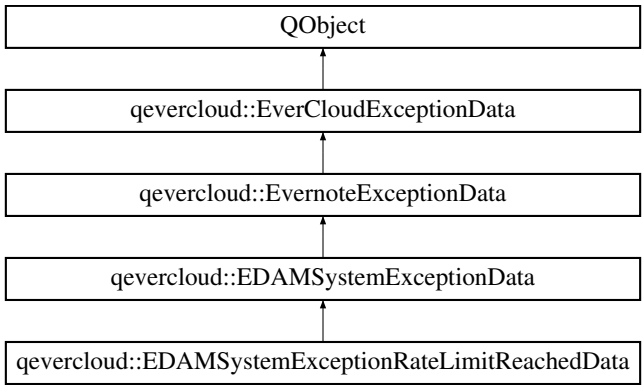
```
virtual QSharedPointer<EverCloudExceptionData> qevercloud::EDAMSystemExceptionRateLimit↩
Reached::exceptionData ( ) const  [virtual]
```

Reimplemented from qevercloud::EDAMSystemException.

7.20 qevercloud::EDAMSystemExceptionRateLimitReachedData Class Reference

`#include <exceptions.h>`

Inheritance diagram for qevercloud::EDAMSystemExceptionRateLimitReachedData:



Public Member Functions

- EDAMSystemExceptionRateLimitReachedData (QString error, EDAMErrorCode::type errorCode, Optional< QString > message, Optional< qint32 > rateLimitDuration)
- virtual void throwException () const Q_DECL_OVERRIDE

Additional Inherited Members

7.20.1 Detailed Description

Asynchronous API conterpart of EDAMSystemExceptionRateLimitReached. See EverCloudExceptionData for more details.

7.20.2 Constructor & Destructor Documentation

7.20.2.1 EDAMSystemExceptionRateLimitReachedData()

```
qevercloud::EDAMSystemExceptionRateLimitReachedData::EDAMSystemExceptionRateLimitReachedData (
            QString error,
            EDAMErrorCode::type errorCode,
            Optional< QString > message,
            Optional< qint32 > rateLimitDuration )  [explicit]
```

7.20.3 Member Function Documentation

7.20.3.1 throwException()

```
virtual void qevercloud::EDAMSystemExceptionRateLimitReachedData::throwException ( ) const
[virtual]
```

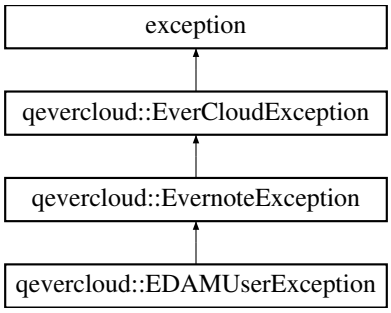
If you want to throw an exception that corresponds to a recrived EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EDAMSystemExceptionData.

7.21 qevercloud::EDAMUserException Class Reference

```
#include <types.h>
```

Inheritance diagram for qevercloud::EDAMUserException:



Public Member Functions

- EDAMUserException ()
- ~EDAMUserException () throw ()
- const char * what () const Q_DECL_OVERRIDE throw ()
- virtual QSharedPointer< EverCloudExceptionData > exceptionData () const Q_DECL_OVERRIDE

Public Attributes

- EDAMErrorCode::type errorCode
- Optional< QString > parameter

Additional Inherited Members

7.21.1 Detailed Description

This exception is thrown by EDAM procedures when a call fails as a result of a problem that a caller may be able to resolve. For example, if the user attempts to add a note to their account which would exceed their storage quota, this type of exception may be thrown to indicate the source of the error so that they can choose an alternate action.

This exception would not be used for internal system errors that do not reflect user actions, but rather reflect a problem within the service that the user cannot resolve.

errorCode: The numeric code indicating the type of error that occurred. must be one of the values of EDAMError↩ Code.

parameter: If the error applied to a particular input parameter, this will indicate which parameter.

7.21.2 Constructor & Destructor Documentation

7.21.2.1 EDAMUserException()

```
qevercloud::EDAMUserException::EDAMUserException ( )  [inline]
```

7.21.2.2 ~EDAMUserException()

```
qevercloud::EDAMUserException::~EDAMUserException ( ) throw )   [inline]
```

7.21.3 Member Function Documentation

7.21.3.1 exceptionData()

```
virtual QSharedPointer<EverCloudExceptionData> qevercloud::EDAMUserException::exceptionData (
) const  [virtual]
```

Reimplemented from qevercloud::EvernoteException.

7.21.3.2 what()

```
const char* qevercloud::EDAMUserException::what ( ) const throw )
```

7.21.4 Member Data Documentation

7.21.4.1 errorCode

```
EDAMErrorCode::type qevercloud::EDAMUserException::errorCode
```

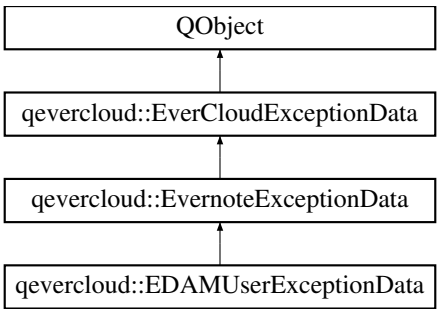
7.21.4.2 parameter

```
Optional< QString > qevercloud::EDAMUserException::parameter
```

7.22 qevercloud::EDAMUserExceptionData Class Reference

`#include <exceptions.h>`

Inheritance diagram for qevercloud::EDAMUserExceptionData:



Public Member Functions

- EDAMUserExceptionData (QString error, EDAMErrorCode::type errorCode, Optional< QString > parameter)
- virtual void throwException () const Q_DECL_OVERRIDE

Protected Attributes

- EDAMErrorCode::type m_errorCode
- Optional< QString > m_parameter

Additional Inherited Members

7.22.1 Detailed Description

Asynchronous API conterpart of EDAMUserException. See EverCloudExceptionData for more details.

7.22.2 Constructor & Destructor Documentation

7.22.2.1 EDAMUserExceptionData()

```
qevercloud::EDAMUserExceptionData::EDAMUserExceptionData (
            QString error,
            EDAMErrorCode::type errorCode,
            Optional< QString > parameter )  [explicit]
```

7.22.3 Member Function Documentation

7.22.3.1 throwException()

```
virtual void qevercloud::EDAMUserExceptionData::throwException ( ) const  [virtual]
```

If you want to throw an exception that corresponds to a recrived EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EvernoteExceptionData.

7.22.4 Member Data Documentation

7.22.4.1 m_errorCode

```
EDAMErrorCode::type qevercloud::EDAMUserExceptionData::m_errorCode  [protected]
```

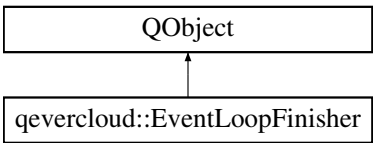
7.22.4.2 m_parameter

```
Optional<QString> qevercloud::EDAMUserExceptionData::m_parameter  [protected]
```

7.23 qevercloud::EventLoopFinisher Class Reference

```
#include <EventLoopFinisher.h>
```

Inheritance diagram for qevercloud::EventLoopFinisher:



Public Slots

- void stopEventLoop ()

Public Member Functions

- EventLoopFinisher (QEventLoop *loop, int exitCode, QObject *parent=Q_NULLPTR)
- ~EventLoopFinisher ()

7.23.1 Constructor & Destructor Documentation

7.23.1.1 EventLoopFinisher()

```
qevercloud::EventLoopFinisher::EventLoopFinisher (
            QEventLoop * loop,
            int exitCode,
            QObject * parent = Q_NULLPTR )  [explicit]
```

7.23.1.2 ~EventLoopFinisher()

```
qevercloud::EventLoopFinisher::~EventLoopFinisher ( )
```

7.23.2 Member Function Documentation

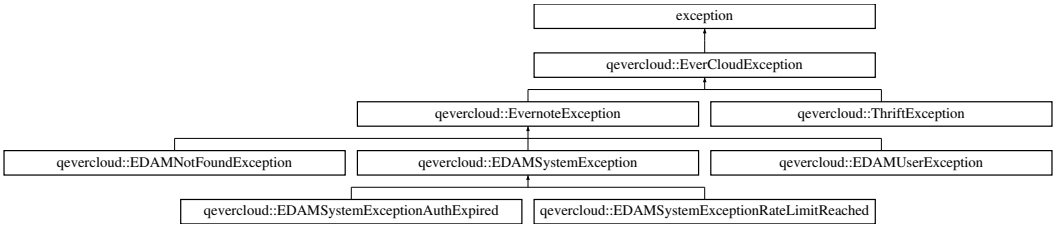
7.23.2.1 stopEventLoop

```
void qevercloud::EventLoopFinisher::stopEventLoop ( )  [slot]
```

7.24 qevercloud::EverCloudException Class Reference

`#include <EverCloudException.h>`

Inheritance diagram for qevercloud::EverCloudException:



Public Member Functions

- EverCloudException ()
- EverCloudException (QString error)
- EverCloudException (const std::string &error)
- EverCloudException (const char *error)
- ~EverCloudException () throw ()
- const char * what () const throw ()
- virtual QSharedPointer< EverCloudExceptionData > exceptionData () const

Protected Attributes

- QByteArray m_error

7.24.1 Detailed Description

All exceptions throws by the library are of this class or its descendants.

7.24.2 Constructor & Destructor Documentation

7.24.2.1 EverCloudException() [1/4]

```
qevercloud::EverCloudException::EverCloudException ( )  [explicit]
```

7.24.2.2 EverCloudException() [2/4]

```
qevercloud::EverCloudException::EverCloudException (
            QString error )  [explicit]
```

7.24.2.3 EverCloudException() [3/4]

```
qevercloud::EverCloudException::EverCloudException (
            const std::string & error )  [explicit]
```

7.24.2.4 EverCloudException() [4/4]

```
qevercloud::EverCloudException::EverCloudException (
            const char * error )  [explicit]
```

7.24.2.5 ~EverCloudException()

```
qevercloud::EverCloudException::~EverCloudException ( ) throw )
```

7.24.3 Member Function Documentation

7.24.3.1 exceptionData()

```
virtual QSharedPointer<EverCloudExceptionData> qevercloud::EverCloudException::exceptionData (
) const  [virtual]
```

Reimplemented in qevercloud::EDAMNotFoundException, qevercloud::EDAMSystemException, qevercloud::EDAMUserException, qevercloud::EDAMSystemExceptionAuthExpired, qevercloud::EDAMSystemExceptionRateLimitReached, qevercloud::EvernoteException, and qevercloud::ThriftException.

7.24.3.2 what()

```
const char* qevercloud::EverCloudException::what ( ) const throw )
```

7.24.4 Member Data Documentation

7.24.4.1 m_error

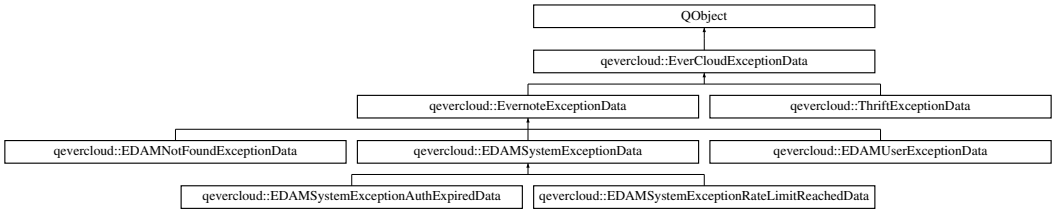
```
QByteArray qevercloud::EverCloudException::m_error  [mutable], [protected]
```

7.25 qevercloud::EverCloudExceptionData Class Reference

EverCloudException counterpart for asynchronous API.

```
#include <EverCloudException.h>
```

Inheritance diagram for qevercloud::EverCloudExceptionData:



Public Member Functions

- EverCloudExceptionData (QString error)
- virtual void throwException () const

Public Attributes

- QString errorMessage

7.25.1 Detailed Description

EverCloudException counterpart for asynchronous API.

Asynchronous functions cannot throw exceptions so descendants of EverCloudExceptionData are retunded instead in case of an error. Every exception class has its own counterpart. The EverCloudExceptionData descendants hierarchy is a copy of the EverCloudException descendants hierarchy.

The main reason not to use exception classes directly is that dynamic_cast does not work across module (exe, dll, etc) boundaries in general, while `qobject_cast` do work as expected. That's why I decided to inherit my error classes from QObject.

In general error checking in asynchronous API look like this:

```
NoteStore* ns;
...
QObject::connect(ns->getNotebook(notebookGuid), &AsyncResult::finished, [](QVariant
      result, QSharedPointer<EverCloudExceptionData> error) {
    if(!error.isNull()) {
        QSharedPointer<EDAMNotFoundExceptionData> errorNotFound = error.objectCast<
      EDAMNotFoundExceptionData>();
        QSharedPointer<EDAMUserExceptionData> errorUser = error.objectCast<EDAMUserExceptionData>();
        QSharedPointer<EDAMSystemExceptionData> errorSystem = error.objectCast<EDAMSystemExceptionData>();
        if(!errorNotFound.isNull()) {
            qDebug() << "notebook not found" << errorNotFound.identifier << errorNotFound.key;
        } else if(!errorUser.isNull()) {
            qDebug() << errorUser.errorMessage;
        } else if(!errorSystem.isNull()) {
            if(errorSystem.errorCode == EDAMErrorCode::RATE_LIMIT_REACHED)
       {
                qDebug() << "Evernote API rate limits are reached";
            } else if(errorSystem.errorCode == EDAMErrorCode::AUTH_EXPIRED) {
                qDebug() << "Authorization token is inspired";
            } else {
                // some other Evernote trouble
                qDebug() << errorSystem.errorMessage;
            }
        } else {
            // some unexpected error
            qDebug() << error.errorMessage;
        }
    } else {
      // success
    }
});
```

7.25.2 Constructor & Destructor Documentation

7.25.2.1 EverCloudExceptionData()

```
qevercloud::EverCloudExceptionData::EverCloudExceptionData (
            QString error )  [explicit]
```

7.25.3 Member Function Documentation

7.25.3.1 throwException()

```
virtual void qevercloud::EverCloudExceptionData::throwException ( ) const  [virtual]
```

If you want to throw an exception that corresponds to a recrived EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented in qevercloud::EDAMSystemExceptionAuthExpiredData, qevercloud::EDAMSystemException↩RateLimitReachedData, qevercloud::EvernoteExceptionData, qevercloud::EDAMNotFoundExceptionData, qevercloud::EDAMSystemExceptionData, qevercloud::EDAMUserExceptionData, and qevercloud::Thrift↩ExceptionData.

7.25.4 Member Data Documentation

7.25.4.1 errorMessage

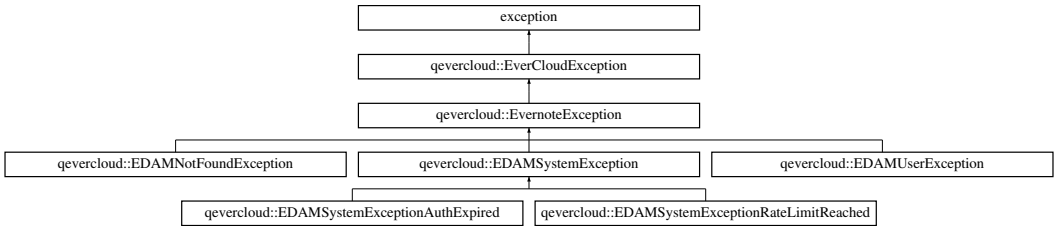
```
QString qevercloud::EverCloudExceptionData::errorMessage
```

Contains an error message. It's the std::exception::what() counterpart.

7.26 qevercloud::EvernoteException Class Reference

```
#include <EverCloudException.h>
```

Inheritance diagram for qevercloud::EvernoteException:



Public Member Functions

- EvernoteException ()
- EvernoteException (QString error)
- EvernoteException (const std::string &error)
- EvernoteException (const char *error)
- virtual QSharedPointer< EverCloudExceptionData > exceptionData () const Q_DECL_OVERRIDE

Additional Inherited Members

7.26.1 Detailed Description

All exception sent by Evernote servers (as opposed to other error conditions, for example http errors) are descendants of this class.

7.26.2 Constructor & Destructor Documentation

7.26.2.1 EvernoteException() [1/4]

```
qevercloud::EvernoteException::EvernoteException ( )  [explicit]
```

7.26.2.2 EvernoteException() [2/4]

```
qevercloud::EvernoteException::EvernoteException (
            QString error )  [explicit]
```

7.26.2.3 EvernoteException() [3/4]

```
qevercloud::EvernoteException::EvernoteException (
            const std::string & error )  [explicit]
```

7.26.2.4 EvernoteException() [4/4]

```
qevercloud::EvernoteException::EvernoteException (
            const char * error )  [explicit]
```

7.26.3 Member Function Documentation

7.26.3.1 exceptionData()

```
virtual QSharedPointer<EverCloudExceptionData> qevercloud::EvernoteException::exceptionData (
) const  [virtual]
```

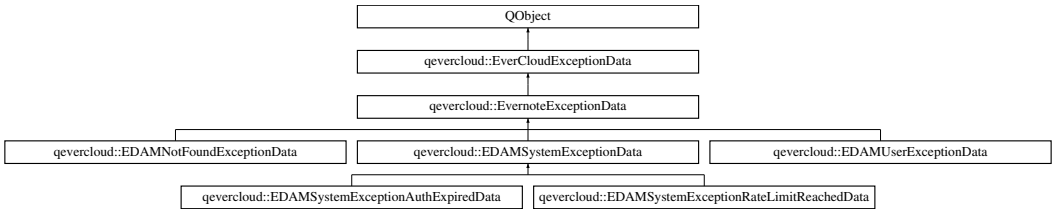
Reimplemented from qevercloud::EverCloudException.

Reimplemented in qevercloud::EDAMNotFoundException, qevercloud::EDAMSystemException, qevercloud::EDAMUserException, qevercloud::EDAMSystemExceptionAuthExpired, and qevercloud::EDAMSystemExceptionRateLimitReached.

7.27 qevercloud::EvernoteExceptionData Class Reference

```
#include <EverCloudException.h>
```

Inheritance diagram for qevercloud::EvernoteExceptionData:



Public Member Functions

- EvernoteExceptionData (QString error)
- virtual void throwException () const Q_DECL_OVERRIDE

Additional Inherited Members

7.27.1 Detailed Description

Asynchronous API conterpart of EvernoteException. See EverCloudExceptionData for more details.

7.27.2 Constructor & Destructor Documentation

7.27.2.1 EvernoteExceptionData()

```
qevercloud::EvernoteExceptionData::EvernoteExceptionData (
            QString error )  [explicit]
```

7.27.3 Member Function Documentation

7.27.3.1 throwException()

```
virtual void qevercloud::EvernoteExceptionData::throwException ( ) const  [virtual]
```

If you want to throw an exception that corresponds to a recrived EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EverCloudExceptionData.

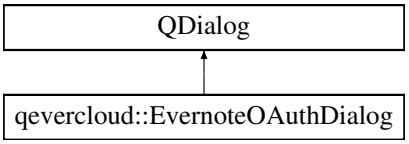
Reimplemented in qevercloud::EDAMSystemExceptionAuthExpiredData, qevercloud::EDAMSystemException↩RateLimitReachedData, qevercloud::EDAMNotFoundExceptionData, qevercloud::EDAMSystemExceptionData, and qevercloud::EDAMUserExceptionData.

7.28 qevercloud::EvernoteOAuthDialog Class Reference

Authorizes your app with the Evernote service by means of OAuth authentication.

```
#include <oauth.h>
```

Inheritance diagram for qevercloud::EvernoteOAuthDialog:



Public Types

- typedef EvernoteOAuthWebView::OAuthResult OAuthResult

Public Member Functions

- EvernoteOAuthDialog (QString consumerKey, QString consumerSecret, QString host=QString↩Literal("www.evernote.com"), QWidget *parent=Q_NULLPTR)
- ~EvernoteOAuthDialog ()
- void setWebViewSizeHint (QSize sizeHint)
- bool isSucceeded () const
- QString oauthError () const
- OAuthResult oauthResult () const
- int exec ()
- void open ()

7.28.1 Detailed Description

Authorizes your app with the Evernote service by means of OAuth authentication.

Intended usage:

```
#include <QEverCloudOAuth.h>

OAuthDialog d(myConsumerKey, myConsumerSecret);
if(d.exec() == QDialog::Accepted) {
    OAuthDialog::OAuthResult res = d.oauthResult();
    // Connect to Evernote
    ...
} else {
    QString errorText = d.oauthError();
    // handle an authentication error
    ...
}
```

Note that you have to include QEverCloudOAuth.h header.

By default EvernoteOAuthDialog uses qrand() for generating nonce so do not forget to call qsrand() in your application. See setNonceGenerator If you want more control over nonce generation.

7.28.2 Member Typedef Documentation

7.28.2.1 OAuthResult

```
typedef EvernoteOAuthWebView::OAuthResult qevercloud::EvernoteOAuthDialog::OAuthResult
```

7.28.3 Constructor & Destructor Documentation

7.28.3.1 EvernoteOAuthDialog()

```
qevercloud::EvernoteOAuthDialog::EvernoteOAuthDialog (
            QString consumerKey,
            QString consumerSecret,
            QString host = QStringLiteral("www.evernote.com"),
            QWidget * parent = Q_NULLPTR )
```

Constructs the dialog.

Parameters

host	Evernote host to authorize with. You need one of this: • "www.evernote.com" - the production service. It's the default value. • "sandox.evernote.com" - the developers "sandbox" service
consumerKey	get it from the Evernote
consumerSecret	along with this

7.28.3.2 ~EvernoteOAuthDialog()

```
qevercloud::EvernoteOAuthDialog::~EvernoteOAuthDialog ( )
```

7.28.4 Member Function Documentation

7.28.4.1 exec()

```
int qevercloud::EvernoteOAuthDialog::exec ( )
```

Returns

QDialog::Accepted on a succesful authentication.

7.28.4.2 isSucceeded()

```
bool qevercloud::EvernoteOAuthDialog::isSucceeded ( ) const
```

Returns

true in case of a succesful authentication. You probably better chech exec() return value instead.

7.28.4.3 oauthError()

```
QString qevercloud::EvernoteOAuthDialog::oauthError ( ) const
```

Returns

In case of an authentification error may return some information about the error.

7.28.4.4 oauthResult()

```
OAuthResult qevercloud::EvernoteOAuthDialog::oauthResult ( ) const
```

Returns

the result of a succesful authentication.

7.28.4.5 open()

```
void qevercloud::EvernoteOAuthDialog::open ( )
```

Shows the dialog as a window modal dialog, returning immediately.

7.28.4.6 setWebViewSizeHint()

```
void qevercloud::EvernoteOAuthDialog::setWebViewSizeHint (
            QSize sizeHint )
```

The dialog adjusts its initial size automatically based on the conatined QWebView preffered size. Use this method to set the size.

Parameters

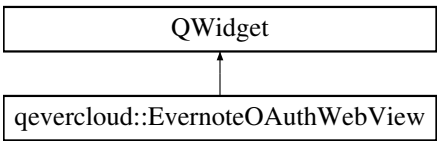
sizeHint	will be used as the preffered size of the contained QWebView.

7.29 qevercloud::EvernoteOAuthWebView Class Reference

The class is tailored specifically for OAuth authorization with Evernote.

```
#include <oauth.h>
```

Inheritance diagram for qevercloud::EvernoteOAuthWebView:



Classes

- struct OAuthResult

Signals

- void authenticationFinished (bool success)
- void authenticationSuceeded ()
- void authenticationFailed ()

Public Member Functions

- EvernoteOAuthWebView (QWidget *parent=Q_NULLPTR)
- void authenticate (QString host, QString consumerKey, QString consumerSecret)
- bool isSucceeded () const
- QString oauthError () const
- OAuthResult oauthResult () const
- void setSizeHint (QSize sizeHint)
- virtual QSize sizeHint () const Q_DECL_OVERRIDE

7.29.1 Detailed Description

The class is tailored specifically for OAuth authorization with Evernote.

While it is functional by itself you probably will prefer to use EvernoteOAuthDialog.

Note that you have to include QEverCloudOAuth.h header.

By deafult EvernoteOAuthWebView uses qrand() for generating nonce so do not forget to call qsrand() in your application. See setNonceGenerator If you want more control over nonce generation.

7.29.2 Constructor & Destructor Documentation

7.29.2.1 EvernoteOAuthWebView()

```
qevercloud::EvernoteOAuthWebView::EvernoteOAuthWebView (
            QWidget * parent = Q_NULLPTR )
```

7.29.3 Member Function Documentation

7.29.3.1 authenticate()

```
void qevercloud::EvernoteOAuthWebView::authenticate (
            QString host,
            QString consumerKey,
            QString consumerSecret )
```

This function starts the OAuth sequence. In the end of the sequence will be emitted one of the signals↩ : authenticationSuceeded or authenticationFailed.

Do not call the function while its call is in effect, i.e. one of the signals is not emitted.

Parameters

host	Evernote host to authorize with. You need one of this: • "www.evernote.com" - the production service. It's the default value. • "sandox.evernote.com" - the developers "sandbox" service
consumerKey	get it from the Evernote
consumerSecret	along with this

7.29.3.2 authenticationFailed

```
void qevercloud::EvernoteOAuthWebView::authenticationFailed ( )  [signal]
```

Emitted when the OAuth sequence is finished with a failure. Some error info may be availabe with errorText().

7.29.3.3 authenticationFinished

```
void qevercloud::EvernoteOAuthWebView::authenticationFinished (
            bool success )  [signal]
```

Emitted when the OAuth sequence started with authenticate() call is finished

7.29.3.4 authenticationSuceeded

```
void qevercloud::EvernoteOAuthWebView::authenticationSuceeded ( )  [signal]
```

Emitted when the OAuth sequence is succesfully finished. Call oauthResult() to get the data.

7.29.3.5 isSucceeded()

```
bool qevercloud::EvernoteOAuthWebView::isSucceeded ( ) const
```

Returns

true if the last call to authenticate resulted in a successful authentication.

7.29.3.6 oauthError()

```
QString qevercloud::EvernoteOAuthWebView::oauthError ( ) const
```

Returns

error message resulted from the last call to authenticate

7.29.3.7 oauthResult()

```
OAuthResult qevercloud::EvernoteOAuthWebView::oauthResult ( ) const
```

Returns

the result of the last authentication, i.e. authenticate() call.

7.29.3.8 setSizeHint()

```
void qevercloud::EvernoteOAuthWebView::setSizeHint (
            QSize sizeHint )
```

The method is useful to specify default size for a EverOAuthWebView.

7.29.3.9 sizeHint()

```
virtual QSize qevercloud::EvernoteOAuthWebView::sizeHint ( ) const  [virtual]
```

7.30 qevercloud::Thumbnail::ImageType Struct Reference

```
#include <thumbnail.h>
```

Public Types

- enum type { PNG, JPEG, GIF, BMP }

7.30.1 Detailed Description

Specifies image type of the returned thumbnail.

Can be PNG, JPEG, GIF or BMP.

7.30.2 Member Enumeration Documentation

7.30.2.1 type

```
enum qevercloud::Thumbnail::ImageType::type
```

Enumerator

PNG	
JPEG	
GIF	
BMP	

7.31 qevercloud::LazyMap Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const LazyMap &other) const
- bool operator!= (const LazyMap &other) const

Public Attributes

- Optional< QSet< QString > > keysOnly
- Optional< QMap< QString, QString > > fullMap

7.31.1 Detailed Description

A structure that wraps a map of name/value pairs whose values are not always present in the structure in order to reduce space when obtaining batches of entities that contain the map.

When the server provides the client with a LazyMap, it will fill in either the keysOnly field or the fullMap field, but never both, based on the API and parameters.

When a client provides a LazyMap to the server as part of an update to an object, the server will only update the LazyMap if the fullMap field is set. If the fullMap field is not set, the server will not make any changes to the map.

Check the API documentation of the individual calls involving the LazyMap for full details including the constraints of the names and values of the map.

7.31.2 Member Function Documentation

7.31.2.1 operator"!=()

```
bool qevercloud::LazyMap::operator!= (
            const LazyMap & other ) const  [inline]
```

7.31.2.2 operator==()

```
bool qevercloud::LazyMap::operator== (
            const LazyMap & other ) const  [inline]
```

7.31.3 Member Data Documentation

7.31.3.1 fullMap

```
Optional< QMap< QString, QString > > qevercloud::LazyMap::fullMap
```

The complete map, including all keys and values.

7.31.3.2 keysOnly

```
Optional< QSet< QString > > qevercloud::LazyMap::keysOnly
```

The set of keys for the map. This field is ignored by the server when set.

7.32 qevercloud::LinkedNotebook Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const LinkedNotebook &other) const
- bool operator!= (const LinkedNotebook &other) const

Public Attributes

- Optional< QString > shareName
- Optional< QString > username
- Optional< QString > shardId
- Optional< QString > shareKey
- Optional< QString > uri
- Optional< Guid > guid
- Optional< qint32 > updateSequenceNum
- Optional< QString > noteStoreUrl
- Optional< QString > webApiUrlPrefix
- Optional< QString > stack
- Optional< qint32 > businessId

7.32.1 Detailed Description

A link in an users account that refers them to a public or individual share in another user's account.

7.32.2 Member Function Documentation

7.32.2.1 operator"!=()

```
bool qevercloud::LinkedNotebook::operator!= (
            const LinkedNotebook & other ) const  [inline]
```

7.32.2.2 operator==()

```
bool qevercloud::LinkedNotebook::operator== (
            const LinkedNotebook & other ) const  [inline]
```

7.32.3 Member Data Documentation

7.32.3.1 businessId

```
Optional< qint32 > qevercloud::LinkedNotebook::businessId
```

If set, this will be the unique identifier for the business that owns the notebook to which the linked notebook refers.

7.32.3.2 guid

```
Optional< Guid > qevercloud::LinkedNotebook::guid
```

The unique identifier of this linked notebook. Will be set whenever a linked notebook is retrieved from the service, but may be null when a client is creating a linked notebook.
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.32.3.3 noteStoreUrl

```
Optional< QString > qevercloud::LinkedNotebook::noteStoreUrl
```

This field will contain the full URL that clients should use to make NoteStore requests to the server shard that contains that notebook's data. I.e. this is the URL that should be used to create the Thrift HTTP client transport to send messages to the NoteStore service for the account.

7.32.3.4 shardId

```
Optional< QString > qevercloud::LinkedNotebook::shardId
```

the shard ID of the notebook if the notebook is not public

shareKey the secret key that provides access to the shared notebook

7.32.3.5 shareKey

```
Optional< QString > qevercloud::LinkedNotebook::shareKey
```

NOT DOCUMENTED

7.32.3.6 shareName

```
Optional< QString > qevercloud::LinkedNotebook::shareName
```

the display name of the shared notebook. The link owner can change this.

7.32.3.7 stack

```
Optional< QString > qevercloud::LinkedNotebook::stack
```

If this is set, then the notebook is visually contained within a stack of notebooks with this name. All notebooks in the same account with the same 'stack' field are considered to be in the same stack. Notebooks with no stack set are "top level" and not contained within a stack. The link owner can change this and this field is for the benefit of the link owner.

7.32.3.8 updateSequenceNum

```
Optional< qint32 > qevercloud::LinkedNotebook::updateSequenceNum
```

A number identifying the last transaction to modify the state of this object. The USN values are sequential within an account, and can be used to compare the order of modifications within the service.

7.32.3.9 uri

```
Optional< QString > qevercloud::LinkedNotebook::uri
```

the identifier of the public notebook

7.32.3.10 username

```
Optional< QString > qevercloud::LinkedNotebook::username
```

the username of the user who owns the shared or public notebook

7.32.3.11 webApiUrlPrefix

```
Optional< QString > qevercloud::LinkedNotebook::webApiUrlPrefix
```

This field will contain the initial part of the URLs that should be used to make requests to Evernote's thin client "web API", which provide optimized operations for clients that aren't capable of manipulating the full contents of accounts via the full Thrift data model. Clients should concatenate the relative path for the various servlets onto the end of this string to construct the full URL, as documented on our developer web site.

7.33 qevercloud::Note Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const Note &other) const
- bool operator!= (const Note &other) const

Public Attributes

- Optional< Guid > guid
- Optional< QString > title
- Optional< QString > content
- Optional< QByteArray > contentHash
- Optional< qint32 > contentLength
- Optional< Timestamp > created
- Optional< Timestamp > updated
- Optional< Timestamp > deleted
- Optional< bool > active
- Optional< qint32 > updateSequenceNum
- Optional< QString > notebookGuid
- Optional< QList< Guid > > tagGuids
- Optional< QList< Resource > > resources
- Optional< NoteAttributes > attributes
- Optional< QStringList > tagNames

7.33.1 Detailed Description

Represents a single note in the user's account.

7.33.2 Member Function Documentation

7.33.2.1 operator"!=()

```
bool qevercloud::Note::operator!= (
            const Note & other ) const  [inline]
```

7.33.2.2 operator==()

```
bool qevercloud::Note::operator== (
            const Note & other ) const  [inline]
```

7.33.3 Member Data Documentation

7.33.3.1 active

```
Optional< bool > qevercloud::Note::active
```

If the note is available for normal actions and viewing, this flag will be set to true.

7.33.3.2 attributes

```
Optional< NoteAttributes > qevercloud::Note::attributes
```

A list of the attributes for this note. If the list of attributes are omitted on a call to updateNote(), then the server will assume that no changes have been made to the resources.

7.33.3.3 content

```
Optional< QString > qevercloud::Note::content
```

The XHTML block that makes up the note. This is the canonical form of the note's contents, so will include abstract Evernote tags for internal resource references. A client may create a separate transformed version of this content for internal presentation, but the same canonical bytes should be used for transmission and comparison unless the user chooses to modify their content.
Length: EDAM_NOTE_CONTENT_LEN_MIN - EDAM_NOTE_CONTENT_LEN_MAX

7.33.3.4 contentHash

```
Optional< QByteArray > qevercloud::Note::contentHash
```

The binary MD5 checksum of the UTF-8 encoded content body. This will always be set by the server, but clients may choose to omit this when they submit a note with content.
Length: EDAM_HASH_LEN (exactly)

7.33.3.5 contentLength

```
Optional< qint32 > qevercloud::Note::contentLength
```

The number of Unicode characters in the content of the note. This will always be set by the service, but clients may choose to omit this value when they submit a Note.

7.33.3.6 created

```
Optional< Timestamp > qevercloud::Note::created
```

The date and time when the note was created in one of the clients. In most cases, this will match the user's sense of when the note was created, and ordering between notes will be based on ordering of this field. However, this is not a "reliable" timestamp if a client has an incorrect clock, so it cannot provide a true absolute ordering between notes. Notes created directly through the service (e.g. via the web GUI) will have an absolutely ordered "created" value.

7.33.3.7 deleted

```
Optional< Timestamp > qevercloud::Note::deleted
```

If present, the note is considered "deleted", and this stores the date and time when the note was deleted by one of the clients. In most cases, this will match the user's sense of when the note was deleted, but this field may be unreliable due to the possibility of client clock errors.

7.33.3.8 guid

```
Optional< Guid > qevercloud::Note::guid
```

The unique identifier of this note. Will be set by the server, but will be omitted by clients calling NoteStore.create↩ Note()
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.33.3.9 notebookGuid

```
Optional< QString > qevercloud::Note::notebookGuid
```

The unique identifier of the notebook that contains this note. If no notebookGuid is provided on a call to create↩ Note(), the default notebook will be used instead.
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.33.3.10 resources

```
Optional< QList< Resource > > qevercloud::Note::resources
```

The list of resources that are embedded within this note. If the list of resources are omitted on a call to update↩ Note(), then the server will assume that no changes have been made to the resources. The binary contents of the resources must be provided when the resource is first sent to the service, but it will be omitted by the service when the Note is returned in the future. Maximum: EDAM_NOTE_RESOURCES_MAX resources per note

7.33.3.11 tagGuids

```
Optional< QList< Guid > > qevercloud::Note::tagGuids
```

A list of the GUID identifiers for tags that are applied to this note. This may be provided in a call to createNote() to unambiguously declare the tags that should be assigned to the new note. Alternately, clients may pass the names of desired tags via the 'tagNames' field during note creation. If the list of tags are omitted on a call to createNote(), then the server will assume that no changes have been made to the resources. Maximum: EDAM_NOTE_TAGS_MAX tags per note

7.33.3.12 tagNames

```
Optional< QStringList > qevercloud::Note::tagNames
```

May be provided by clients during calls to createNote() as an alternative to providing the tagGuids of existing tags. If any tagNames are provided during createNote(), these will be found, or created if they don't already exist. Created tags will have no parent (they will be at the top level of the tag panel).

7.33.3.13 title

```
Optional< QString > qevercloud::Note::title
```

The subject of the note. Can't begin or end with a space.
Length: EDAM_NOTE_TITLE_LEN_MIN - EDAM_NOTE_TITLE_LEN_MAX
Regex: EDAM_NOTE_TITLE_REGEX

7.33.3.14 updated

```
Optional< Timestamp > qevercloud::Note::updated
```

The date and time when the note was last modified in one of the clients. In most cases, this will match the user's sense of when the note was modified, but this field may not be absolutely reliable due to the possibility of client clock errors.

7.33.3.15 updateSequenceNum

```
Optional< qint32 > qevercloud::Note::updateSequenceNum
```

A number identifying the last transaction to modify the state of this note (including changes to the note's attributes or resources). The USN values are sequential within an account, and can be used to compare the order of modifications within the service.

7.34 qevercloud::NoteAttributes Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NoteAttributes &other) const
- bool operator!= (const NoteAttributes &other) const

Public Attributes

- Optional< Timestamp > subjectDate
- Optional< double > latitude
- Optional< double > longitude
- Optional< double > altitude
- Optional< QString > author
- Optional< QString > source
- Optional< QString > sourceURL
- Optional< QString > sourceApplication
- Optional< Timestamp > shareDate
- Optional< qint64 > reminderOrder
- Optional< Timestamp > reminderDoneTime
- Optional< Timestamp > reminderTime
- Optional< QString > placeName
- Optional< QString > contentClass
- Optional< LazyMap > applicationData
- Optional< QString > lastEditedBy
- Optional< QMap< QString, QString > > classifications
- Optional< UserID > creatorId
- Optional< UserID > lastEditorId

7.34.1 Detailed Description

The list of optional attributes that can be stored on a note.

7.34.2 Member Function Documentation

7.34.2.1 operator"!=()

```
bool qevercloud::NoteAttributes::operator!= (
            const NoteAttributes & other ) const  [inline]
```

7.34.2.2 operator==()

```
bool qevercloud::NoteAttributes::operator== (
            const NoteAttributes & other ) const  [inline]
```

7.34.3 Member Data Documentation

7.34.3.1 altitude

`Optional< double > qevercloud::NoteAttributes::altitude`

the altitude where the note was taken

7.34.3.2 applicationData

`Optional< LazyMap > qevercloud::NoteAttributes::applicationData`

Provides a location for applications to store a relatively small (4kb) blob of data that is not meant to be visible to the user and that is opaque to the Evernote service. A single application may use at most one entry in this map, using its API consumer key as the map key. See the documentation for LazyMap for a description of when the actual map values are returned by the service.

To safely add or modify your application's entry in the map, use NoteStore.setNoteApplicationDataEntry. To safely remove your application's entry from the map, use NoteStore.unsetNoteApplicationDataEntry.

Minimum length of a name (key): EDAM_APPLICATIONDATA_NAME_LEN_MIN
Sum max size of key and value: EDAM_APPLICATIONDATA_ENTRY_LEN_MAX
Syntax regex for name (key): EDAM_APPLICATIONDATA_NAME_REGEX

7.34.3.3 author

`Optional< QString > qevercloud::NoteAttributes::author`

the author of the content of the note
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.34.3.4 classifications

`Optional< QMap< QString, QString > > qevercloud::NoteAttributes::classifications`

A map of classifications applied to the note by clients or by the Evernote service. The key is the string name of the classification type, and the value is a constant that begins with CLASSIFICATION_.

7.34.3.5 contentClass

`Optional< QString > qevercloud::NoteAttributes::contentClass`

The class (or type) of note. This field is used to indicate to clients that special structured information is represented within the note such that special rules apply when making modifications. If contentClass is set and the client application does not specifically support the specified class, the client MUST treat the note as read-only. In this case, the client MAY modify the note's notebook and tags via the Note.notebookGuid and Note.tagGuids fields. The client MAY also modify the reminderOrder field as well as the reminderTime and reminderDoneTime fields.

Applications should set contentClass only when they are creating notes that contain structured information that needs to be maintained in order for the user to be able to use the note within that application. Setting content↩ Class makes a note read-only in other applications, so there is a trade-off when an application chooses to use contentClass. Applications that set contentClass when creating notes must use a contentClass string of the form *CompanyName.ApplicationName* to ensure uniqueness.

Length restrictions: EDAM_NOTE_CONTENT_CLASS_LEN_MIN, EDAM_NOTE_CONTENT_CLASS_LEN_MAX
Regex: EDAM_NOTE_CONTENT_CLASS_REGEX

7.34.3.6 creatorId

```
Optional< UserID > qevercloud::NoteAttributes::creatorId
```

The numeric user ID of the user who originally created the note.

7.34.3.7 lastEditedBy

```
Optional< QString > qevercloud::NoteAttributes::lastEditedBy
```

An indication of who made the last change to the note. If you are accessing the note via a shared notebook to which you have modification rights, or if you are the owner of the notebook to which the note belongs, then you have access to the value. In this case, the value will be unset if the owner of the notebook containing the note was the last to make the modification, else it will be a string describing the guest who made the last edit. If you do not have access to this value, it will be left unset. This field is read-only by clients. The server will ignore all values set by clients into this field.

7.34.3.8 lastEditorId

```
Optional< UserID > qevercloud::NoteAttributes::lastEditorId
```

The numeric user ID of the user described in lastEditedBy.

7.34.3.9 latitude

```
Optional< double > qevercloud::NoteAttributes::latitude
```

the latitude where the note was taken

7.34.3.10 longitude

```
Optional< double > qevercloud::NoteAttributes::longitude
```

the longitude where the note was taken

7.34.3.11 placeName

```
Optional< QString > qevercloud::NoteAttributes::placeName
```

Allows the user to assign a human-readable location name associated with a note. Users may assign values like 'Home' and 'Work'. Place names may also be populated with values from geonames database (e.g., a restaurant name). Applications are encouraged to normalize values so that grouping values by place name provides a useful result. Applications MUST NOT automatically add place name values based on geolocation without confirmation from the user; that is, the value in this field should be more useful than a simple automated lookup based on the note's latitude and longitude.

7.34.3.12 reminderDoneTime

```
Optional< Timestamp > qevercloud::NoteAttributes::reminderDoneTime
```

The date and time when a user dismissed/"marked done" the reminder on the note. Users typically do not manually set this value directly as it is set to the time when the user dismissed/"marked done" the reminder.

7.34.3.13 reminderOrder

```
Optional< qint64 > qevercloud::NoteAttributes::reminderOrder
```

The set of notes with this parameter set are considered "reminders" and are to be treated specially by clients to give them higher UI prominence within a notebook. The value is used to sort the reminder notes within the notebook with higher values representing greater prominence. Outside of the context of a notebook, the value of this parameter is undefined. The value is not intended to be compared to the values of reminder notes in other notebooks. In order to allow clients to place a note at a higher precedence than other notes, you should never set a value greater than the current time (as defined for a Timetstamp). To place a note at higher precedence than existing notes, set the value to the current time as defined for a timestamp (milliseconds since the epoch). Synchronizing clients must remember the time when the update was performed, using the local clock on the client, and use that value when they later upload the note to the service. Clients must not set the reminderOrder to the reminderTime as the reminderTime could be in the future. Those two fields are never intended to be related. The correct value for reminderOrder field for new notes is the "current" time when the user indicated that the note is a reminder. Clients may implement a separate "sort by date" feature to show notes ordered by reminderTime. Whenever a reminder↩ DoneTime or reminderTime is set but a reminderOrder is not set, the server will fill in the current server time for the reminderOrder field.

7.34.3.14 reminderTime

```
Optional< Timestamp > qevercloud::NoteAttributes::reminderTime
```

The date and time a user has selected to be reminded of the note. A note with this value set is known as a "reminder" and the user can be reminded, via e-mail or client-specific notifications, of the note when the time is reached or about to be reached. When a user sets a reminder time on a note that has a reminder done time, and that reminder time is in the future, then the reminder done time should be cleared. This should happen regardless of any existing reminder time that may have previously existed on the note.

7.34.3.15 shareDate

```
Optional< Timestamp > qevercloud::NoteAttributes::shareDate
```

The date and time when this note was directly shared via its own URL. This is only set on notes that were individually shared - it is independent of any notebook-level sharing of the containing notebook. This field is treated as "read-only" for clients; the server will ignore changes to this field from an external client.

7.34.3.16 source

```
Optional< QString > qevercloud::NoteAttributes::source
```

the method that the note was added to the account, if the note wasn't directly authored in an Evernote desktop client.
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.34.3.17 sourceApplication

```
Optional< QString > qevercloud::NoteAttributes::sourceApplication
```

an identifying string for the application that created this note. This string does not have a guaranteed syntax or structure – it is intended for human inspection and tracking.
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.34.3.18 sourceURL

```
Optional< QString > qevercloud::NoteAttributes::sourceURL
```

the original location where the resource was hosted. For web clips, this will be the URL of the page that was clipped.
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.34.3.19 subjectDate

```
Optional< Timestamp > qevercloud::NoteAttributes::subjectDate
```

time that the note refers to

7.35 qevercloud::Notebook Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const Notebook &other) const
- bool operator!= (const Notebook &other) const

Public Attributes

- Optional< Guid > guid
- Optional< QString > name
- Optional< qint32 > updateSequenceNum
- Optional< bool > defaultNotebook
- Optional< Timestamp > serviceCreated
- Optional< Timestamp > serviceUpdated
- Optional< Publishing > publishing
- Optional< bool > published
- Optional< QString > stack
- Optional< QList< qint64 > > sharedNotebookIds
- Optional< QList< SharedNotebook > > sharedNotebooks
- Optional< BusinessNotebook > businessNotebook
- Optional< User > contact
- Optional< NotebookRestrictions > restrictions

7.35.1 Detailed Description

A unique container for a set of notes.

7.35.2 Member Function Documentation

7.35.2.1 operator"!=()

```
bool qevercloud::Notebook::operator!= (
            const Notebook & other ) const  [inline]
```

7.35.2.2 operator==()

```
bool qevercloud::Notebook::operator== (
            const Notebook & other ) const  [inline]
```

7.35.3 Member Data Documentation

7.35.3.1 businessNotebook

```
Optional< BusinessNotebook > qevercloud::Notebook::businessNotebook
```

If the notebook is part of a business account and has been published to the business library, this will contain information for the library listing. The presence or absence of this field is not a reliable test of whether a given notebook is in fact a business notebook - the field is only used when a notebook is or has been published to the business library.

7.35.3.2 contact

```
Optional< User > qevercloud::Notebook::contact
```

Intended for use with Business accounts, this field identifies the user who has been designated as the "contact". For notebooks created in business accounts, the server will automatically set this value to the user who created the notebook unless Notebook.contact.username has been set, in which that value will be used. When updating a notebook, it is common to leave Notebook.contact field unset, indicating that no change to the value is being requested and that the existing value, if any, should be preserved.

7.35.3.3 defaultNotebook

```
Optional< bool > qevercloud::Notebook::defaultNotebook
```

If true, this notebook should be used for new notes whenever the user has not (or cannot) specify a desired target notebook. For example, if a note is submitted via SMTP email. The service will maintain at most one defaultNotebook per account. If a second notebook is created or updated with defaultNotebook set to true, the service will automatically update the prior notebook's defaultNotebook field to false. If the default notebook is deleted (i.e. "active" set to false), the "defaultNotebook" field will be set to false by the service. If the account has no default notebook set, the service will use the most recent notebook as the default.

7.35.3.4 guid

```
Optional< Guid > qevercloud::Notebook::guid
```

The unique identifier of this notebook.
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.35.3.5 name

```
Optional< QString > qevercloud::Notebook::name
```

A sequence of characters representing the name of the notebook. May be changed by clients, but the account may not contain two notebooks with names that are equal via a case-insensitive comparison. Can't begin or end with a space.
Length: EDAM_NOTEBOOK_NAME_LEN_MIN - EDAM_NOTEBOOK_NAME_LEN_MAX
Regex: EDAM_NOTEBOOK_NAME_REGEX

7.35.3.6 published

```
Optional< bool > qevercloud::Notebook::published
```

If this is set to true, then the Notebook will be accessible either to the public, or for business users to their business, via the 'publishing' specification, which must also be set. If this is set to false, the Notebook will not be available to the public (or business). Clients that do not wish to change the publishing behavior of a Notebook should not set this value when calling NoteStore.updateNotebook().

7.35.3.7 publishing

```
Optional< Publishing > qevercloud::Notebook::publishing
```

If the Notebook has been opened for public access, or business users shared with their business (i.e. if 'published' is set to true), then this will point to the set of publishing information for the Notebook (URI, description, etc.). A Notebook cannot be published without providing this information, but it will persist for later use if publishing is ever disabled on the Notebook. Clients that do not wish to change the publishing behavior of a Notebook should not set this value when calling NoteStore.updateNotebook().

7.35.3.8 restrictions

```
Optional< NotebookRestrictions > qevercloud::Notebook::restrictions
```

NOT DOCUMENTED

7.35.3.9 serviceCreated

```
Optional< Timestamp > qevercloud::Notebook::serviceCreated
```

The time when this notebook was created on the service. This will be set on the service during creation, and the service will provide this value when it returns a Notebook to a client. The service will ignore this value if it is sent by clients.

7.35.3.10 serviceUpdated

```
Optional< Timestamp > qevercloud::Notebook::serviceUpdated
```

The time when this notebook was last modified on the service. This will be set on the service during creation, and the service will provide this value when it returns a Notebook to a client. The service will ignore this value if it is sent by clients.

7.35.3.11 sharedNotebookIds

```
Optional< QList< qint64 > > qevercloud::Notebook::sharedNotebookIds
```

DEPRECATED - replaced by sharedNotebooks.

7.35.3.12 sharedNotebooks

```
Optional< QList< SharedNotebook > > qevercloud::Notebook::sharedNotebooks
```

The list of recipients to whom this notebook has been shared (one SharedNotebook object per recipient email address). This field will be unset if you do not have permission to access this data. If you are accessing the notebook as the owner or via a shared notebook that is modifiable, then you have access to this data and the value will be set. This field is read-only. Clients may not make changes to shared notebooks via this field.

7.35.3.13 stack

```
Optional< QString > qevercloud::Notebook::stack
```

If this is set, then the notebook is visually contained within a stack of notebooks with this name. All notebooks in the same account with the same 'stack' field are considered to be in the same stack. Notebooks with no stack set are "top level" and not contained within a stack.

7.35.3.14 updateSequenceNum

```
Optional< qint32 > qevercloud::Notebook::updateSequenceNum
```

A number identifying the last transaction to modify the state of this object. The USN values are sequential within an account, and can be used to compare the order of modifications within the service.

7.36 qevercloud::NotebookDescriptor Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NotebookDescriptor &other) const
- bool operator!= (const NotebookDescriptor &other) const

Public Attributes

- Optional< Guid > guid
- Optional< QString > notebookDisplayName
- Optional< QString > contactName
- Optional< bool > hasSharedNotebook
- Optional< qint32 > joinedUserCount

7.36.1 Detailed Description

A structure that describes a notebook or a user's relationship with a notebook. NotebookDescriptor is expected to remain a lighter-weight structure when compared to Notebook.

7.36.2 Member Function Documentation

7.36.2.1 operator"!=()

```
bool qevercloud::NotebookDescriptor::operator!= (
            const NotebookDescriptor & other ) const  [inline]
```

7.36.2.2 operator==()

```
bool qevercloud::NotebookDescriptor::operator== (
            const NotebookDescriptor & other ) const  [inline]
```

7.36.3 Member Data Documentation

7.36.3.1 contactName

```
Optional< QString > qevercloud::NotebookDescriptor::contactName
```

The User.name value of the notebook's "contact".

7.36.3.2 guid

```
Optional< Guid > qevercloud::NotebookDescriptor::guid
```

The unique identifier of the notebook.

7.36.3.3 hasSharedNotebook

```
Optional< bool > qevercloud::NotebookDescriptor::hasSharedNotebook
```

Whether a SharedNotebook record exists between the calling user and this notebook.

7.36.3.4 joinedUserCount

```
Optional< qint32 > qevercloud::NotebookDescriptor::joinedUserCount
```

The number of users who have joined this notebook.

7.36.3.5 notebookDisplayName

```
Optional< QString > qevercloud::NotebookDescriptor::notebookDisplayName
```

A sequence of characters representing the name of the notebook.

7.37 qevercloud::NotebookRestrictions Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NotebookRestrictions &other) const
- bool operator!= (const NotebookRestrictions &other) const

Public Attributes

- Optional< bool > noReadNotes
- Optional< bool > noCreateNotes
- Optional< bool > noUpdateNotes
- Optional< bool > noExpungeNotes
- Optional< bool > noShareNotes
- Optional< bool > noEmailNotes
- Optional< bool > noSendMessageToRecipients
- Optional< bool > noUpdateNotebook
- Optional< bool > noExpungeNotebook
- Optional< bool > noSetDefaultNotebook
- Optional< bool > noSetNotebookStack
- Optional< bool > noPublishToPublic
- Optional< bool > noPublishToBusinessLibrary
- Optional< bool > noCreateTags
- Optional< bool > noUpdateTags
- Optional< bool > noExpungeTags
- Optional< bool > noSetParentTag
- Optional< bool > noCreateSharedNotebooks
- Optional< SharedNotebookInstanceRestrictions::type > updateWhichSharedNotebookRestrictions
- Optional< SharedNotebookInstanceRestrictions::type > expungeWhichSharedNotebookRestrictions

7.37.1 Detailed Description

This structure captures information about the types of operations that cannot be performed on a given notebook with a type of authenticated access and credentials. The values filled into this structure are based on then-current values in the server database for shared notebooks and notebook publishing records, as well as information related to the authentication token. Information from the authentication token includes the application that is accessing the server, as defined by the permissions granted by consumer (api) key, and the method used to obtain the token, for example via authenticateToSharedNotebook, authenticateToBusiness, etc. Note that changes to values in this structure that are the result of shared notebook or publishing record changes are communicated to the client via a change in the notebook USN during sync. It is important to use the same access method, parameters, and consumer key in order obtain correct results from the sync engine.

The server has the final say on what is allowed as values may change between calls to obtain NotebookRestrictions instances and to operate on data on the service.

If the following are set and true, then the given restriction is in effect, as accessed by the same authentication token from which the values were obtained.

7.37.2 Member Function Documentation

7.37.2.1 operator"!=()

```
bool qevercloud::NotebookRestrictions::operator!= (
            const NotebookRestrictions & other ) const  [inline]
```

7.37.2.2 operator==()

```
bool qevercloud::NotebookRestrictions::operator== (
            const NotebookRestrictions & other ) const  [inline]
```

7.37.3 Member Data Documentation

7.37.3.1 expungeWhichSharedNotebookRestrictions

```
Optional< SharedNotebookInstanceRestrictions::type > qevercloud::NotebookRestrictions::expunge↩
WhichSharedNotebookRestrictions
```

Restrictions on which shared notebook instances can be expunged. If the value is not set or null, then the client can expunge any of the shared notebooks associated with the notebook on which the NotebookRestrictions are defined. See the enumeration for further details.

7.37.3.2 noCreateNotes

```
Optional< bool > qevercloud::NotebookRestrictions::noCreateNotes
```

The client may not create new notes in the notebook.

7.37.3.3 noCreateSharedNotebooks

```
Optional< bool > qevercloud::NotebookRestrictions::noCreateSharedNotebooks
```

The client is unable to create shared notebooks for the notebook.

7.37.3.4 noCreateTags

```
Optional< bool > qevercloud::NotebookRestrictions::noCreateTags
```

The client may not complete an operation that results in a new tag being created in the owner's account.

7.37.3.5 noEmailNotes

```
Optional< bool > qevercloud::NotebookRestrictions::noEmailNotes
```

The client may not e-mail notes via the Evernote service by using the emailNote method.

7.37.3.6 noExpungeNotebook

```
Optional< bool > qevercloud::NotebookRestrictions::noExpungeNotebook
```

The client may not expunge the Notebook object itself, for example, via the expungeNotebook method.

7.37.3.7 noExpungeNotes

```
Optional< bool > qevercloud::NotebookRestrictions::noExpungeNotes
```

The client may not expunge notes currently in the notebook.

7.37.3.8 noExpungeTags

```
Optional< bool > qevercloud::NotebookRestrictions::noExpungeTags
```

The client may not expunge tags in the owner's account.

7.37.3.9 noPublishToBusinessLibrary

```
Optional< bool > qevercloud::NotebookRestrictions::noPublishToBusinessLibrary
```

The client may not publish the notebook to the business library.

7.37.3.10 noPublishToPublic

```
Optional< bool > qevercloud::NotebookRestrictions::noPublishToPublic
```

The client may not change the publish the notebook to the public. For example, business notebooks may not be shared publicly.

7.37.3.11 noReadNotes

```
Optional< bool > qevercloud::NotebookRestrictions::noReadNotes
```

The client is not able to read notes from the service and the notebook is write-only.

7.37.3.12 noSendMessageToRecipients

```
Optional< bool > qevercloud::NotebookRestrictions::noSendMessageToRecipients
```

The client may not send messages to the share recipients of the notebook.

7.37.3.13 noSetDefaultNotebook

```
Optional< bool > qevercloud::NotebookRestrictions::noSetDefaultNotebook
```

The client may not set this notebook to be the default notebook. The caller should leave Notebook.defaultNotebook unset.

7.37.3.14 noSetNotebookStack

```
Optional< bool > qevercloud::NotebookRestrictions::noSetNotebookStack
```

If the client is able to update the Notebook, the Notebook.stack value may not be set.

7.37.3.15 noSetParentTag

```
Optional< bool > qevercloud::NotebookRestrictions::noSetParentTag
```

If the client is able to create or update tags in the owner's account, then they will not be able to set the parent tag. Leave the value unset.

7.37.3.16 noShareNotes

```
Optional< bool > qevercloud::NotebookRestrictions::noShareNotes
```

The client may not share notes in the notebook via the shareNote method.

7.37.3.17 noUpdateNotebook

```
Optional< bool > qevercloud::NotebookRestrictions::noUpdateNotebook
```

The client may not update the Notebook object itself, for example, via the updateNotebook method.

7.37.3.18 noUpdateNotes

```
Optional< bool > qevercloud::NotebookRestrictions::noUpdateNotes
```

The client may not update notes currently in the notebook.

7.37.3.19 noUpdateTags

```
Optional< bool > qevercloud::NotebookRestrictions::noUpdateTags
```

The client may not update tags in the owner's account.

7.37.3.20 updateWhichSharedNotebookRestrictions

```
Optional< SharedNotebookInstanceRestrictions::type > qevercloud::NotebookRestrictions::update↩
WhichSharedNotebookRestrictions
```

Restrictions on which shared notebook instances can be updated. If the value is not set or null, then the client can update any of the shared notebooks associated with the notebook on which the NotebookRestrictions are defined. See the enumeration for further details.

7.38 qevercloud::NoteCollectionCounts Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const NoteCollectionCounts &other) const
- bool operator!= (const NoteCollectionCounts &other) const

Public Attributes

- Optional< QMap< Guid, qint32 > > notebookCounts
- Optional< QMap< Guid, qint32 > > tagCounts
- Optional< qint32 > trashCount

7.38.1 Detailed Description

A data structure representing the number of notes for each notebook and tag with a non-zero set of applicable notes.

7.38.2 Member Function Documentation

7.38.2.1 operator"!=()

```
bool qevercloud::NoteCollectionCounts::operator!= (
            const NoteCollectionCounts & other ) const  [inline]
```

7.38.2.2 operator==()

```
bool qevercloud::NoteCollectionCounts::operator== (
            const NoteCollectionCounts & other ) const  [inline]
```

7.38.3 Member Data Documentation

7.38.3.1 notebookCounts

```
Optional< QMap< Guid, qint32 > > qevercloud::NoteCollectionCounts::notebookCounts
```

A mapping from the Notebook GUID to the number of notes (from some selection) that are in the corresponding notebook.

7.38.3.2 tagCounts

```
Optional< QMap< Guid, qint32 > > qevercloud::NoteCollectionCounts::tagCounts
```

A mapping from the Tag GUID to the number of notes (from some selection) that have the corresponding tag.

7.38.3.3 trashCount

```
Optional< qint32 > qevercloud::NoteCollectionCounts::trashCount
```

If this is set, then this is the number of notes that are in the trash. If this is not set, then the number of notes in the trash hasn't been reported. (I.e. if there are no notes in the trash, this will be set to 0.)

7.39 qevercloud::NoteEmailParameters Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NoteEmailParameters &other) const
- bool operator!= (const NoteEmailParameters &other) const

Public Attributes

- Optional< QString > guid
- Optional< Note > note
- Optional< QStringList > toAddresses
- Optional< QStringList > ccAddresses
- Optional< QString > subject
- Optional< QString > message

7.39.1 Detailed Description

Parameters that must be given to the NoteStore emailNote call. These allow the caller to specify the note to send, the recipient addresses, etc.

7.39.2 Member Function Documentation

7.39.2.1 operator"!=()

```
bool qevercloud::NoteEmailParameters::operator!= (
            const NoteEmailParameters & other ) const  [inline]
```

7.39.2.2 operator==()

```
bool qevercloud::NoteEmailParameters::operator== (
            const NoteEmailParameters & other ) const  [inline]
```

7.39.3 Member Data Documentation

7.39.3.1 ccAddresses

```
Optional< QStringList > qevercloud::NoteEmailParameters::ccAddresses
```

If provided, this should contain a list of the SMTP email addresses that should be included in the "Cc:" line of the email. Callers must specify at least one "to" or "cc" email address.

7.39.3.2 guid

```
Optional< QString > qevercloud::NoteEmailParameters::guid
```

If set, this must be the GUID of a note within the user's account that should be retrieved from the service and sent as email. If not set, the 'note' field must be provided instead.

7.39.3.3 message

```
Optional< QString > qevercloud::NoteEmailParameters::message
```

If provided, this is additional personal text that should be included into the email as a message from the owner to the recipient(s).

7.39.3.4 note

```
Optional< Note > qevercloud::NoteEmailParameters::note
```

If the 'guid' field is not set, this field must be provided, including the full contents of the note note (and all of its Resources) to send. This can be used for a Note that as not been created in the service, for example by a local client with local notes.

7.39.3.5 subject

```
Optional< QString > qevercloud::NoteEmailParameters::subject
```

If provided, this should contain the subject line of the email that will be sent. If not provided, the title of the note will be used as the subject of the email.

7.39.3.6 toAddresses

```
Optional< QStringList > qevercloud::NoteEmailParameters::toAddresses
```

If provided, this should contain a list of the SMTP email addresses that should be included in the "To:" line of the email. Callers must specify at least one "to" or "cc" email address.

7.40 qevercloud::NoteFilter Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NoteFilter &other) const
- bool operator!= (const NoteFilter &other) const

Public Attributes

- Optional< qint32 > order
- Optional< bool > ascending
- Optional< QString > words
- Optional< Guid > notebookGuid
- Optional< QList< Guid > > tagGuids
- Optional< QString > timeZone
- Optional< bool > inactive
- Optional< QString > emphasized

7.40.1 Detailed Description

A list of criteria that are used to indicate which notes are desired from the account. This is used in queries to the NoteStore to determine which notes should be retrieved.

7.40.2 Member Function Documentation

7.40.2.1 operator"!=()

```
bool qevercloud::NoteFilter::operator!= (
            const NoteFilter & other ) const  [inline]
```

7.40.2.2 operator==()

```
bool qevercloud::NoteFilter::operator== (
            const NoteFilter & other ) const  [inline]
```

7.40.3 Member Data Documentation

7.40.3.1 ascending

```
Optional< bool > qevercloud::NoteFilter::ascending
```

If true, the results will be ascending in the requested sort order. If false, the results will be descending.

7.40.3.2 emphasized

```
Optional< QString > qevercloud::NoteFilter::emphasized
```

If present, a search query string that may or may not influence the notes to be returned, both in terms of coverage as well as of order. Think of it as a wish list, not a requirement. Accepts the full search grammar documented in the Evernote API Overview.

7.40.3.3 inactive

```
Optional< bool > qevercloud::NoteFilter::inactive
```

If true, then only notes that are not active (i.e. notes in the Trash) will be returned. Otherwise, only active notes will be returned. There is no way to find both active and inactive notes in a single query.

7.40.3.4 notebookGuid

```
Optional< Guid > qevercloud::NoteFilter::notebookGuid
```

If present, the Guid of the notebook that must contain the notes.

7.40.3.5 order

```
Optional< qint32 > qevercloud::NoteFilter::order
```

The NoteSortOrder value indicating what criterion should be used to sort the results of the filter.

7.40.3.6 tagGuids

```
Optional< QList< Guid > > qevercloud::NoteFilter::tagGuids
```

If present, the list of tags (by GUID) that must be present on the notes.

7.40.3.7 timeZone

```
Optional< QString > qevercloud::NoteFilter::timeZone
```

The zone ID for the user, which will be used to interpret any dates or times in the queries that do not include their desired zone information. For example, if a query requests notes created "yesterday", this will be evaluated from the provided time zone, if provided. The format must be encoded as a standard zone ID such as "America/Los_↩ Angeles".

7.40.3.8 words

```
Optional< QString > qevercloud::NoteFilter::words
```

If present, a search query string that will filter the set of notes to be returned. Accepts the full search grammar documented in the Evernote API Overview.

7.41 qevercloud::NoteList Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NoteList &other) const
- bool operator!= (const NoteList &other) const

Public Attributes

- qint32 startIndex
- qint32 totalNotes
- QList< Note > notes
- Optional< QStringList > stoppedWords
- Optional< QStringList > searchedWords
- Optional< qint32 > updateCount

7.41.1 Detailed Description

A small structure for returning a list of notes out of a larger set.

7.41.2 Member Function Documentation

7.41.2.1 operator"!=()

```
bool qevercloud::NoteList::operator!= (
            const NoteList & other ) const  [inline]
```

7.41.2.2 operator==()

```
bool qevercloud::NoteList::operator== (
            const NoteList & other ) const  [inline]
```

7.41.3 Member Data Documentation

7.41.3.1 notes

```
QList< Note > qevercloud::NoteList::notes
```

The list of notes from this range. The Notes will include all metadata (attributes, resources, etc.), but will not include the ENML content of the note or the binary contents of any resources.

7.41.3.2 searchedWords

```
Optional< QStringList > qevercloud::NoteList::searchedWords
```

If the NoteList was produced using a text based search query that included viable search words or quoted expressions, this will include a list of those words. Any stopped words will not be included in this list.

7.41.3.3 startIndex

```
qint32 qevercloud::NoteList::startIndex
```

The starting index within the overall set of notes. This is also the number of notes that are "before" this list in the set.

7.41.3.4 stoppedWords

```
Optional< QStringList > qevercloud::NoteList::stoppedWords
```

If the NoteList was produced using a text based search query that included words that are not indexed or searched by the service, this will include a list of those ignored words.

7.41.3.5 totalNotes

```
qint32 qevercloud::NoteList::totalNotes
```

The number of notes in the larger set. This can be used to calculate how many notes are "after" this note in the set. (I.e. remaining = totalNotes - (startIndex + notes.length))

7.41.3.6 updateCount

```
Optional< qint32 > qevercloud::NoteList::updateCount
```

Indicates the total number of transactions that have been committed within the account. This reflects (for example) the number of discrete additions or modifications that have been made to the data in this account (tags, notes, resources, etc.). This number is the "high water mark" for Update Sequence Numbers (USN) within the account.

7.42 qevercloud::NoteMetadata Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NoteMetadata &other) const
- bool operator!= (const NoteMetadata &other) const

Public Attributes

- Guid guid
- Optional< QString > title
- Optional< qint32 > contentLength
- Optional< Timestamp > created
- Optional< Timestamp > updated
- Optional< Timestamp > deleted
- Optional< qint32 > updateSequenceNum
- Optional< QString > notebookGuid
- Optional< QList< Guid > > tagGuids
- Optional< NoteAttributes > attributes
- Optional< QString > largestResourceMime
- Optional< qint32 > largestResourceSize

7.42.1 Detailed Description

This structure is used in the set of results returned by the findNotesMetadata function. It represents the high-level information about a single Note, without some of the larger deep structure. This allows for the information about a list of Notes to be returned relatively quickly with less marshalling and data transfer to remote clients. Most fields in this structure are identical to the corresponding field in the Note structure, with the exception of:

7.42.2 Member Function Documentation

7.42.2.1 operator"!=()

```
bool qevercloud::NoteMetadata::operator!= (
            const NoteMetadata & other ) const  [inline]
```

7.42.2.2 operator==()

```
bool qevercloud::NoteMetadata::operator== (
            const NoteMetadata & other ) const  [inline]
```

7.42.3 Member Data Documentation

7.42.3.1 attributes

```
Optional< NoteAttributes > qevercloud::NoteMetadata::attributes
```

NOT DOCUMENTED

7.42.3.2 contentLength

```
Optional< qint32 > qevercloud::NoteMetadata::contentLength
```

NOT DOCUMENTED

7.42.3.3 created

```
Optional< Timestamp > qevercloud::NoteMetadata::created
```

NOT DOCUMENTED

7.42.3.4 deleted

```
Optional< Timestamp > qevercloud::NoteMetadata::deleted
```

NOT DOCUMENTED

7.42.3.5 guid

```
Guid qevercloud::NoteMetadata::guid
```

NOT DOCUMENTED

7.42.3.6 largestResourceMime

```
Optional< QString > qevercloud::NoteMetadata::largestResourceMime
```

If set, then this will contain the MIME type of the largest Resource (in bytes) within the Note. This may be useful, for example, to choose an appropriate icon or thumbnail to represent the Note.

7.42.3.7 largestResourceSize

```
Optional< qint32 > qevercloud::NoteMetadata::largestResourceSize
```

If set, this will contain the size of the largest Resource file, in bytes, within the Note. This may be useful, for example, to decide whether to ask the server for a thumbnail to represent the Note.

7.42.3.8 notebookGuid

```
Optional< QString > qevercloud::NoteMetadata::notebookGuid
```

NOT DOCUMENTED

7.42.3.9 tagGuids

```
Optional< QList< Guid > > qevercloud::NoteMetadata::tagGuids
```

NOT DOCUMENTED

7.42.3.10 title

```
Optional< QString > qevercloud::NoteMetadata::title
```

NOT DOCUMENTED

7.42.3.11 updated

```
Optional< Timestamp > qevercloud::NoteMetadata::updated
```

NOT DOCUMENTED

7.42.3.12 updateSequenceNum

```
Optional< qint32 > qevercloud::NoteMetadata::updateSequenceNum
```

NOT DOCUMENTED

7.43 qevercloud::NotesMetadataList Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NotesMetadataList &other) const
- bool operator!= (const NotesMetadataList &other) const

Public Attributes

- qint32 startIndex
- qint32 totalNotes
- QList< NoteMetadata > notes
- Optional< QStringList > stoppedWords
- Optional< QStringList > searchedWords
- Optional< qint32 > updateCount

7.43.1 Detailed Description

This structure is returned from calls to the findNotesMetadata function to give the high-level metadata about a subset of Notes that are found to match a specified NoteFilter in a search.

7.43.2 Member Function Documentation

7.43.2.1 operator"!=()

```
bool qevercloud::NotesMetadataList::operator!= (
            const NotesMetadataList & other ) const  [inline]
```

7.43.2.2 operator==()

```
bool qevercloud::NotesMetadataList::operator== (
            const NotesMetadataList & other ) const  [inline]
```

7.43.3 Member Data Documentation

7.43.3.1 notes

```
QList< NoteMetadata > qevercloud::NotesMetadataList::notes
```

The list of metadata for Notes in this range. The set of optional fields that are set in each metadata structure will depend on the NotesMetadataResultSpec provided by the caller when the search was performed. Only the 'guid' field will be guaranteed to be set in each Note.

7.43.3.2 searchedWords

```
Optional< QStringList > qevercloud::NotesMetadataList::searchedWords
```

If the NoteList was produced using a text based search query that included viable search words or quoted expressions, this will include a list of those words. Any stopped words will not be included in this list.

7.43.3.3 startIndex

```
qint32 qevercloud::NotesMetadataList::startIndex
```

The starting index within the overall set of notes. This is also the number of notes that are "before" this list in the set.

7.43.3.4 stoppedWords

```
Optional< QStringList > qevercloud::NotesMetadataList::stoppedWords
```

If the NoteList was produced using a text based search query that included words that are not indexed or searched by the service, this will include a list of those ignored words.

7.43.3.5 totalNotes

```
qint32 qevercloud::NotesMetadataList::totalNotes
```

The number of notes in the larger set. This can be used to calculate how many notes are "after" this note in the set. (I.e. remaining = totalNotes - (startIndex + notes.length))

7.43.3.6 updateCount

```
Optional< qint32 > qevercloud::NotesMetadataList::updateCount
```

Indicates the total number of transactions that have been committed within the account. This reflects (for example) the number of discrete additions or modifications that have been made to the data in this account (tags, notes, resources, etc.). This number is the "high water mark" for Update Sequence Numbers (USN) within the account.

7.44 qevercloud::NotesMetadataResultSpec Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const NotesMetadataResultSpec &other) const
- bool operator!= (const NotesMetadataResultSpec &other) const

Public Attributes

- Optional< bool > includeTitle
- Optional< bool > includeContentLength
- Optional< bool > includeCreated
- Optional< bool > includeUpdated
- Optional< bool > includeDeleted
- Optional< bool > includeUpdateSequenceNum
- Optional< bool > includeNotebookGuid
- Optional< bool > includeTagGuids
- Optional< bool > includeAttributes
- Optional< bool > includeLargestResourceMime
- Optional< bool > includeLargestResourceSize

7.44.1 Detailed Description

This structure is provided to the findNotesMetadata function to specify the subset of fields that should be included in each NoteMetadata element that is returned in the NotesMetadataList. Each field on this structure is a boolean flag that indicates whether the corresponding field should be included in the NoteMetadata structure when it is returned. For example, if the 'includeTitle' field is set on this structure when calling findNotesMetadata, then each NoteMetadata in the list should have its 'title' field set. If one of the fields in this spec is not set, then it will be treated as 'false' by the server, so the default behavior is to include nothing in replies (but the mandatory GUID)

7.44.2 Member Function Documentation

7.44.2.1 operator"!=()

```
bool qevercloud::NotesMetadataResultSpec::operator!= (
            const NotesMetadataResultSpec & other ) const  [inline]
```

7.44.2.2 operator==()

```
bool qevercloud::NotesMetadataResultSpec::operator== (
            const NotesMetadataResultSpec & other ) const  [inline]
```

7.44.3 Member Data Documentation

7.44.3.1 includeAttributes

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeAttributes
```

NOT DOCUMENTED

7.44.3.2 includeContentLength

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeContentLength
```

NOT DOCUMENTED

7.44.3.3 includeCreated

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeCreated
```

NOT DOCUMENTED

7.44.3.4 includeDeleted

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeDeleted
```

NOT DOCUMENTED

7.44.3.5 includeLargestResourceMime

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeLargestResourceMime
```

NOT DOCUMENTED

7.44.3.6 includeLargestResourceSize

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeLargestResourceSize
```

NOT DOCUMENTED

7.44.3.7 includeNotebookGuid

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeNotebookGuid
```

NOT DOCUMENTED

7.44.3.8 includeTagGuids

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeTagGuids
```

NOT DOCUMENTED

7.44.3.9 includeTitle

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeTitle
```

NOT DOCUMENTED

7.44.3.10 includeUpdated

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeUpdated
```

NOT DOCUMENTED

7.44.3.11 includeUpdateSequenceNum

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeUpdateSequenceNum
```

NOT DOCUMENTED

7.45 qevercloud::NoteSortOrder Struct Reference

```
#include <types.h>
```

Public Types

- enum type {
  CREATED = 1, UPDATED = 2, RELEVANCE = 3, UPDATE_SEQUENCE_NUMBER = 4,
  TITLE = 5 }

7.45.1 Detailed Description

This enumeration defines the possible sort ordering for notes when they are returned from a search result.

7.45.2 Member Enumeration Documentation

7.45.2.1 type

```
enum qevercloud::NoteSortOrder::type
```

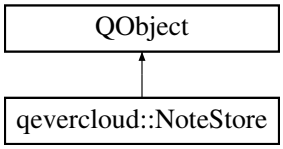
Enumerator

CREATED	
UPDATED	
RELEVANCE	
UPDATE_SEQUENCE_NUMBER	
TITLE	

7.46 qevercloud::NoteStore Class Reference

`#include <services.h>`

Inheritance diagram for qevercloud::NoteStore:



Public Member Functions

- NoteStore (QString noteStoreUrl=QString(), QString authenticationToken=QString(), QObject *parent=0)
- NoteStore (QObject *parent)
- void setNoteStoreUrl (QString noteStoreUrl)
- QString noteStoreUrl ()
- void setAuthenticationToken (QString authenticationToken)
- QString authenticationToken ()
- SyncState getSyncState (QString authenticationToken=QString())
- AsyncResult * getSyncStateAsync (QString authenticationToken=QString())
- SyncState getSyncStateWithMetrics (const ClientUsageMetrics &clientMetrics, QString authentication↩ Token=QString())
- AsyncResult * getSyncStateWithMetricsAsync (const ClientUsageMetrics &clientMetrics, QString authenticationToken=QString())
- SyncChunk getSyncChunk (qint32 afterUSN, qint32 maxEntries, bool fullSyncOnly, QString authentication↩ Token=QString())
- AsyncResult * getSyncChunkAsync (qint32 afterUSN, qint32 maxEntries, bool fullSyncOnly, QString authenticationToken=QString())
- SyncChunk getFilteredSyncChunk (qint32 afterUSN, qint32 maxEntries, const SyncChunkFilter &filter, Q↩ String authenticationToken=QString())
- AsyncResult * getFilteredSyncChunkAsync (qint32 afterUSN, qint32 maxEntries, const SyncChunkFilter &filter, QString authenticationToken=QString())
- SyncState getLinkedNotebookSyncState (const LinkedNotebook &linkedNotebook, QString authentication↩ Token=QString())
- AsyncResult * getLinkedNotebookSyncStateAsync (const LinkedNotebook &linkedNotebook, QString authenticationToken=QString())
- SyncChunk getLinkedNotebookSyncChunk (const LinkedNotebook &linkedNotebook, qint32 afterUSN, qint32 maxEntries, bool fullSyncOnly, QString authenticationToken=QString())
- AsyncResult * getLinkedNotebookSyncChunkAsync (const LinkedNotebook &linkedNotebook, qint32 after↩ USN, qint32 maxEntries, bool fullSyncOnly, QString authenticationToken=QString())
- QList< Notebook > listNotebooks (QString authenticationToken=QString())

- AsyncResult * listNotebooksAsync (QString authenticationToken=QString())
- Notebook getNotebook (Guid guid, QString authenticationToken=QString())
- AsyncResult * getNotebookAsync (Guid guid, QString authenticationToken=QString())
- Notebook getDefaultNotebook (QString authenticationToken=QString())
- AsyncResult * getDefaultNotebookAsync (QString authenticationToken=QString())
- Notebook createNotebook (const Notebook &notebook, QString authenticationToken=QString())
- AsyncResult * createNotebookAsync (const Notebook &notebook, QString authenticationToken=QString())
- qint32 updateNotebook (const Notebook &notebook, QString authenticationToken=QString())
- AsyncResult * updateNotebookAsync (const Notebook &notebook, QString authenticationToken=QString())
- qint32 expungeNotebook (Guid guid, QString authenticationToken=QString())
- AsyncResult * expungeNotebookAsync (Guid guid, QString authenticationToken=QString())
- QList< Tag > listTags (QString authenticationToken=QString())
- AsyncResult * listTagsAsync (QString authenticationToken=QString())
- QList< Tag > listTagsByNotebook (Guid notebookGuid, QString authenticationToken=QString())
- AsyncResult * listTagsByNotebookAsync (Guid notebookGuid, QString authenticationToken=QString())
- Tag getTag (Guid guid, QString authenticationToken=QString())
- AsyncResult * getTagAsync (Guid guid, QString authenticationToken=QString())
- Tag createTag (const Tag &tag, QString authenticationToken=QString())
- AsyncResult * createTagAsync (const Tag &tag, QString authenticationToken=QString())
- qint32 updateTag (const Tag &tag, QString authenticationToken=QString())
- AsyncResult * updateTagAsync (const Tag &tag, QString authenticationToken=QString())
- void untagAll (Guid guid, QString authenticationToken=QString())
- AsyncResult * untagAllAsync (Guid guid, QString authenticationToken=QString())
- qint32 expungeTag (Guid guid, QString authenticationToken=QString())
- AsyncResult * expungeTagAsync (Guid guid, QString authenticationToken=QString())
- QList< SavedSearch > listSearches (QString authenticationToken=QString())
- AsyncResult * listSearchesAsync (QString authenticationToken=QString())
- SavedSearch getSearch (Guid guid, QString authenticationToken=QString())
- AsyncResult * getSearchAsync (Guid guid, QString authenticationToken=QString())
- SavedSearch createSearch (const SavedSearch &search, QString authenticationToken=QString())
- AsyncResult * createSearchAsync (const SavedSearch &search, QString authenticationToken=QString())
- qint32 updateSearch (const SavedSearch &search, QString authenticationToken=QString())
- AsyncResult * updateSearchAsync (const SavedSearch &search, QString authenticationToken=QString())
- qint32 expungeSearch (Guid guid, QString authenticationToken=QString())
- AsyncResult * expungeSearchAsync (Guid guid, QString authenticationToken=QString())
- NoteList findNotes (const NoteFilter &filter, qint32 offset, qint32 maxNotes, QString authenticationToken=Q↩ String())
- AsyncResult * findNotesAsync (const NoteFilter &filter, qint32 offset, qint32 maxNotes, QString authenticationToken=QString())
- qint32 findNoteOffset (const NoteFilter &filter, Guid guid, QString authenticationToken=QString())
- AsyncResult * findNoteOffsetAsync (const NoteFilter &filter, Guid guid, QString authenticationToken=Q↩ String())
- NotesMetadataList findNotesMetadata (const NoteFilter &filter, qint32 offset, qint32 maxNotes, const Notes↩ MetadataResultSpec &resultSpec, QString authenticationToken=QString())
- AsyncResult * findNotesMetadataAsync (const NoteFilter &filter, qint32 offset, qint32 maxNotes, const NotesMetadataResultSpec &resultSpec, QString authenticationToken=QString())
- NoteCollectionCounts findNoteCounts (const NoteFilter &filter, bool withTrash, QString authentication↩ Token=QString())
- AsyncResult * findNoteCountsAsync (const NoteFilter &filter, bool withTrash, QString authentication↩ Token=QString())
- Note getNote (Guid guid, bool withContent, bool withResourcesData, bool withResourcesRecognition, bool withResourcesAlternateData, QString authenticationToken=QString())
- AsyncResult * getNoteAsync (Guid guid, bool withContent, bool withResourcesData, bool withResources↩ Recognition, bool withResourcesAlternateData, QString authenticationToken=QString())
- LazyMap getNoteApplicationData (Guid guid, QString authenticationToken=QString())

- AsyncResult * getNoteApplicationDataAsync (Guid guid, QString authenticationToken=QString())
- QString getNoteApplicationDataEntry (Guid guid, QString key, QString authenticationToken=QString())
- AsyncResult * getNoteApplicationDataEntryAsync (Guid guid, QString key, QString authenticationToken=Q↩String())
- qint32 setNoteApplicationDataEntry (Guid guid, QString key, QString value, QString authentication↩Token=QString())
- AsyncResult * setNoteApplicationDataEntryAsync (Guid guid, QString key, QString value, QString authenticationToken=QString())
- qint32 unsetNoteApplicationDataEntry (Guid guid, QString key, QString authenticationToken=QString())
- AsyncResult * unsetNoteApplicationDataEntryAsync (Guid guid, QString key, QString authentication↩Token=QString())
- QString getNoteContent (Guid guid, QString authenticationToken=QString())
- AsyncResult * getNoteContentAsync (Guid guid, QString authenticationToken=QString())
- QString getNoteSearchText (Guid guid, bool noteOnly, bool tokenizeForIndexing, QString authentication↩Token=QString())
- AsyncResult * getNoteSearchTextAsync (Guid guid, bool noteOnly, bool tokenizeForIndexing, QString authenticationToken=QString())
- QString getResourceSearchText (Guid guid, QString authenticationToken=QString())
- AsyncResult * getResourceSearchTextAsync (Guid guid, QString authenticationToken=QString())
- QStringList getNoteTagNames (Guid guid, QString authenticationToken=QString())
- AsyncResult * getNoteTagNamesAsync (Guid guid, QString authenticationToken=QString())
- Note createNote (const Note &note, QString authenticationToken=QString())
- AsyncResult * createNoteAsync (const Note &note, QString authenticationToken=QString())
- Note updateNote (const Note &note, QString authenticationToken=QString())
- AsyncResult * updateNoteAsync (const Note &note, QString authenticationToken=QString())
- qint32 deleteNote (Guid guid, QString authenticationToken=QString())
- AsyncResult * deleteNoteAsync (Guid guid, QString authenticationToken=QString())
- qint32 expungeNote (Guid guid, QString authenticationToken=QString())
- AsyncResult * expungeNoteAsync (Guid guid, QString authenticationToken=QString())
- qint32 expungeNotes (QList< Guid > noteGuids, QString authenticationToken=QString())
- AsyncResult * expungeNotesAsync (QList< Guid > noteGuids, QString authenticationToken=QString())
- qint32 expungeInactiveNotes (QString authenticationToken=QString())
- AsyncResult * expungeInactiveNotesAsync (QString authenticationToken=QString())
- Note copyNote (Guid noteGuid, Guid toNotebookGuid, QString authenticationToken=QString())
- AsyncResult * copyNoteAsync (Guid noteGuid, Guid toNotebookGuid, QString authenticationToken=Q↩String())
- QList< NoteVersionId > listNoteVersions (Guid noteGuid, QString authenticationToken=QString())
- AsyncResult * listNoteVersionsAsync (Guid noteGuid, QString authenticationToken=QString())
- Note getNoteVersion (Guid noteGuid, qint32 updateSequenceNum, bool withResourcesData, bool with↩ResourcesRecognition, bool withResourcesAlternateData, QString authenticationToken=QString())
- AsyncResult * getNoteVersionAsync (Guid noteGuid, qint32 updateSequenceNum, bool withResourcesData, bool withResourcesRecognition, bool withResourcesAlternateData, QString authenticationToken=QString())
- Resource getResource (Guid guid, bool withData, bool withRecognition, bool withAttributes, bool with↩AlternateData, QString authenticationToken=QString())
- AsyncResult * getResourceAsync (Guid guid, bool withData, bool withRecognition, bool withAttributes, bool withAlternateData, QString authenticationToken=QString())
- LazyMap getResourceApplicationData (Guid guid, QString authenticationToken=QString())
- AsyncResult * getResourceApplicationDataAsync (Guid guid, QString authenticationToken=QString())
- QString getResourceApplicationDataEntry (Guid guid, QString key, QString authenticationToken=QString())
- AsyncResult * getResourceApplicationDataEntryAsync (Guid guid, QString key, QString authentication↩Token=QString())
- qint32 setResourceApplicationDataEntry (Guid guid, QString key, QString value, QString authentication↩Token=QString())
- AsyncResult * setResourceApplicationDataEntryAsync (Guid guid, QString key, QString value, QString authenticationToken=QString())

- qint32 unsetResourceApplicationDataEntry (Guid guid, QString key, QString authenticationToken=QString())
- AsyncResult * unsetResourceApplicationDataEntryAsync (Guid guid, QString key, QString authentication↩ Token=QString())
- qint32 updateResource (const Resource &resource, QString authenticationToken=QString())
- AsyncResult * updateResourceAsync (const Resource &resource, QString authenticationToken=QString())
- QByteArray getResourceData (Guid guid, QString authenticationToken=QString())
- AsyncResult * getResourceDataAsync (Guid guid, QString authenticationToken=QString())
- Resource getResourceByHash (Guid noteGuid, QByteArray contentHash, bool withData, bool with↩ Recognition, bool withAlternateData, QString authenticationToken=QString())
- AsyncResult * getResourceByHashAsync (Guid noteGuid, QByteArray contentHash, bool withData, bool withRecognition, bool withAlternateData, QString authenticationToken=QString())
- QByteArray getResourceRecognition (Guid guid, QString authenticationToken=QString())
- AsyncResult * getResourceRecognitionAsync (Guid guid, QString authenticationToken=QString())
- QByteArray getResourceAlternateData (Guid guid, QString authenticationToken=QString())
- AsyncResult * getResourceAlternateDataAsync (Guid guid, QString authenticationToken=QString())
- ResourceAttributes getResourceAttributes (Guid guid, QString authenticationToken=QString())
- AsyncResult * getResourceAttributesAsync (Guid guid, QString authenticationToken=QString())
- Notebook getPublicNotebook (UserID userId, QString publicUri)
- AsyncResult * getPublicNotebookAsync (UserID userId, QString publicUri)
- SharedNotebook createSharedNotebook (const SharedNotebook &sharedNotebook, QString authentication↩ Token=QString())
- AsyncResult * createSharedNotebookAsync (const SharedNotebook &sharedNotebook, QString authenticationToken=QString())
- qint32 updateSharedNotebook (const SharedNotebook &sharedNotebook, QString authenticationToken=Q↩ String())
- AsyncResult * updateSharedNotebookAsync (const SharedNotebook &sharedNotebook, QString authenticationToken=QString())
- qint32 setSharedNotebookRecipientSettings (qint64 sharedNotebookId, const SharedNotebookRecipient↩ Settings &recipientSettings, QString authenticationToken=QString())
- AsyncResult * setSharedNotebookRecipientSettingsAsync (qint64 sharedNotebookId, const Shared↩ NotebookRecipientSettings &recipientSettings, QString authenticationToken=QString())
- qint32 sendMessageToSharedNotebookMembers (Guid notebookGuid, QString messageText, QStringList recipients, QString authenticationToken=QString())
- AsyncResult * sendMessageToSharedNotebookMembersAsync (Guid notebookGuid, QString messageText, QStringList recipients, QString authenticationToken=QString())
- QList< SharedNotebook > listSharedNotebooks (QString authenticationToken=QString())
- AsyncResult * listSharedNotebooksAsync (QString authenticationToken=QString())
- qint32 expungeSharedNotebooks (QList< qint64 > sharedNotebookIds, QString authenticationToken=Q↩ String())
- AsyncResult * expungeSharedNotebooksAsync (QList< qint64 > sharedNotebookIds, QString authentication↩ Token=QString())
- LinkedNotebook createLinkedNotebook (const LinkedNotebook &linkedNotebook, QString authentication↩ Token=QString())
- AsyncResult * createLinkedNotebookAsync (const LinkedNotebook &linkedNotebook, QString authentication↩ Token=QString())
- qint32 updateLinkedNotebook (const LinkedNotebook &linkedNotebook, QString authenticationToken=Q↩ String())
- AsyncResult * updateLinkedNotebookAsync (const LinkedNotebook &linkedNotebook, QString authentication↩ Token=QString())
- QList< LinkedNotebook > listLinkedNotebooks (QString authenticationToken=QString())
- AsyncResult * listLinkedNotebooksAsync (QString authenticationToken=QString())
- qint32 expungeLinkedNotebook (Guid guid, QString authenticationToken=QString())
- AsyncResult * expungeLinkedNotebookAsync (Guid guid, QString authenticationToken=QString())
- AuthenticationResult authenticateToSharedNotebook (QString shareKey, QString authenticationToken=Q↩ String())

- AsyncResult * authenticateToSharedNotebookAsync (QString shareKey, QString authenticationToken=Q↩ String())
- SharedNotebook getSharedNotebookByAuth (QString authenticationToken=QString())
- AsyncResult * getSharedNotebookByAuthAsync (QString authenticationToken=QString())
- void emailNote (const NoteEmailParameters &parameters, QString authenticationToken=QString())
- AsyncResult * emailNoteAsync (const NoteEmailParameters &parameters, QString authentication↩ Token=QString())
- QString shareNote (Guid guid, QString authenticationToken=QString())
- AsyncResult * shareNoteAsync (Guid guid, QString authenticationToken=QString())
- void stopSharingNote (Guid guid, QString authenticationToken=QString())
- AsyncResult * stopSharingNoteAsync (Guid guid, QString authenticationToken=QString())
- AuthenticationResult authenticateToSharedNote (QString guid, QString noteKey, QString authentication↩ Token=QString())
- AsyncResult * authenticateToSharedNoteAsync (QString guid, QString noteKey, QString authentication↩ Token=QString())
- RelatedResult findRelated (const RelatedQuery &query, const RelatedResultSpec &resultSpec, QString authenticationToken=QString())
- AsyncResult * findRelatedAsync (const RelatedQuery &query, const RelatedResultSpec &resultSpec, Q↩ String authenticationToken=QString())

7.46.1 Detailed Description

Service: NoteStore

The NoteStore service is used by EDAM clients to exchange information about the collection of notes in an account. This is primarily used for synchronization, but could also be used by a "thin" client without a full local cache.

All functions take an "authenticationToken" parameter, which is the value returned by the UserStore which permits access to the account. This parameter is mandatory for all functions.

Calls which require an authenticationToken may throw an EDAMUserException for the following reasons:

- AUTH_EXPIRED "authenticationToken" - token has expired
- BAD_DATA_FORMAT "authenticationToken" - token is malformed
- DATA_REQUIRED "authenticationToken" - token is empty
- INVALID_AUTH "authenticationToken" - token signature is invalid

7.46.2 Constructor & Destructor Documentation

7.46.2.1 NoteStore() [1/2]

```
qevercloud::NoteStore::NoteStore (
            QString noteStoreUrl = QString(),
            QString authenticationToken = QString(),
            QObject * parent = 0 )  [explicit]
```

7.46.2.2 NoteStore() [2/2]

```
qevercloud::NoteStore::NoteStore (
            QObject * parent )  [explicit]
```

7.46.3 Member Function Documentation

7.46.3.1 authenticateToSharedNote()

```
AuthenticationResult qevercloud::NoteStore::authenticateToSharedNote (
            QString guid,
            QString noteKey,
            QString authenticationToken = QString() )
```

Asks the service to produce an authentication token that can be used to access the contents of a single Note which was individually shared from someone's account. This authenticationToken can be used with the various other NoteStore calls to find and retrieve the Note and its directly-referenced children.

Parameters

guid	The GUID identifying this Note on this shard.
noteKey	The 'noteKey' identifier from the Note that was originally created via a call to shareNote() and then given to a recipient to access.
authenticationToken	An optional authenticationToken that identifies the user accessing the shared note. This parameter may be required to access some shared notes.

Exceptions

EDAMUserException	• PERMISSION_DENIED "Note" - the Note with that GUID is either not shared, or the noteKey doesn't match the current key for this note • PERMISSION_DENIED "authenticationToken" - an authentication token is required to access this Note, but either no authentication token or a "non-owner" authentication token was provided.
EDAMNotFoundException	• "guid" - the note with that GUID is not found
EDAMSystemException	• TAKEN_DOWN "Note" - The specified shared note is taken down (for all requesters). • TAKEN_DOWN "Country" - The specified shared note is taken down for the requester because of an IP-based country lookup.

7.46.3.2 authenticateToSharedNoteAsync()

```
AsyncResult* qevercloud::NoteStore::authenticateToSharedNoteAsync (
            QString guid,
            QString noteKey,
            QString authenticationToken = QString() )
```

Asynchronous version of authenticateToSharedNote

7.46.3.3 authenticateToSharedNotebook()

```
AuthenticationResult qevercloud::NoteStore::authenticateToSharedNotebook (
            QString shareKey,
            QString authenticationToken = QString() )
```

Asks the service to produce an authentication token that can be used to access the contents of a shared notebook from someone else's account. This authenticationToken can be used with the various other NoteStore calls to find and retrieve notes, and if the permissions in the shared notebook are sufficient, to make changes to the contents of the notebook.

Parameters

shareKey	The 'shareKey' identifier from the SharedNotebook that was granted to some recipient. This string internally encodes the notebook identifier and a security signature.
authenticationToken	If a non-empty string is provided, this is the full user-based authentication token that identifies the user who is currently logged in and trying to access the shared notebook. This may be required if the notebook was created with 'requireLogin'. If this string is empty, the service will attempt to authenticate to the shared notebook without any logged in user.

Exceptions

EDAMSystemException	• BAD_DATA_FORMAT "shareKey" - invalid shareKey string • INVALID_AUTH "shareKey" - bad signature on shareKey string
EDAMNotFoundException	• "SharedNotebook.id" - the shared notebook no longer exists
EDAMUserException	• DATA_REQUIRED "authenticationToken" - the share requires login, and no valid authentication token was provided. • PERMISSION_DENIED "SharedNotebook.username" - share requires login, and another username has already been bound to this notebook.

7.46.3.4 authenticateToSharedNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::authenticateToSharedNotebookAsync (
```

```
            QString shareKey,
            QString authenticationToken = QString() )
```

Asynchronous version of authenticateToSharedNotebook

7.46.3.5 authenticationToken()

```
QString qevercloud::NoteStore::authenticationToken ( )  [inline]
```

7.46.3.6 copyNote()

```
Note qevercloud::NoteStore::copyNote (
            Guid noteGuid,
            Guid toNotebookGuid,
            QString authenticationToken = QString() )
```

Performs a deep copy of the Note with the provided GUID 'noteGuid' into the Notebook with the provided GUID 'toNotebookGuid'. The caller must be the owner of both the Note and the Notebook. This creates a new Note in the destination Notebook with new content and Resources that match all of the content and Resources from the original Note, but with new GUID identifiers. The original Note is not modified by this operation. The copied note is considered as an "upload" for the purpose of upload transfer limit calculation, so its size is added to the upload count for the owner.

Parameters

noteGuid	The GUID of the Note to copy.
toNotebookGuid	The GUID of the Notebook that should receive the new Note.

Returns

The metadata for the new Note that was created. This will include the new GUID for this Note (and any copied Resources), but will not include the content body or the binary bodies of any Resources.

Exceptions

EDAMUserException	• LIMIT_REACHED "Note" - at max number per account • PERMISSION_DENIED "Notebook.guid" - destination not owned by user • PERMISSION_DENIED "Note" - user doesn't own • QUOTA_REACHED "Accounting.uploadLimit" - note exceeds upload quota
EDAMNotFoundException	• "Notebook.guid" - not found, by GUID

7.46.3.7 copyNoteAsync()

```
AsyncResult* qevercloud::NoteStore::copyNoteAsync (
            Guid noteGuid,
            Guid toNotebookGuid,
            QString authenticationToken = QString() )
```

Asynchronous version of copyNote

7.46.3.8 createLinkedNotebook()

```
LinkedNotebook qevercloud::NoteStore::createLinkedNotebook (
            const LinkedNotebook & linkedNotebook,
            QString authenticationToken = QString() )
```

Asks the service to make a linked notebook with the provided name, username of the owner and identifiers provided. A linked notebook can be either a link to a public notebook or to a private shared notebook.

Parameters

linkedNotebook	The desired fields for the linked notebook must be provided on this object. The name of the linked notebook must be set. Either a username uri or a shard id and share key must be provided otherwise a EDAMUserException is thrown.

Returns

The newly created LinkedNotebook. The server-side id will be saved in this object's 'id' field.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "LinkedNotebook.name" - invalid length or pattern • BAD_DATA_FORMAT "LinkedNotebook.username" - bad username format • BAD_DATA_FORMAT "LinkedNotebook.uri" - if public notebook set but bad uri • BAD_DATA_FORMAT "LinkedNotebook.shareKey" - if private notebook set but bad shareKey • DATA_REQUIRED "LinkedNotebook.shardId" - if private notebook but shard id not provided

7.46.3.9 createLinkedNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::createLinkedNotebookAsync (
            const LinkedNotebook & linkedNotebook,
            QString authenticationToken = QString() )
```

Asynchronous version of createLinkedNotebook

7.46.3.10 createNote()

```
Note qevercloud::NoteStore::createNote (
            const Note & note,
            QString authenticationToken = QString() )
```

Asks the service to make a note with the provided set of information.

Parameters

note	A Note object containing the desired fields to be populated on the service.

Returns

The newly created Note from the service. The server-side GUIDs for the Note and any Resources will be saved in this object.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.title" - invalid length or pattern • BAD_DATA_FORMAT "Note.content" - invalid length for ENML content • BAD_DATA_FORMAT "Resource.mime" - invalid resource MIME type • BAD_DATA_FORMAT "NoteAttributes.∗" - bad resource string • BAD_DATA_FORMAT "ResourceAttributes.∗" - bad resource string • DATA_CONFLICT "Note.deleted" - deleted time set on active note • DATA_REQUIRED "Resource.data" - resource data body missing • ENML_VALIDATION "∗" - note content doesn't validate against DTD • LIMIT_REACHED "Note" - at max number per account • LIMIT_REACHED "Note.size" - total note size too large • LIMIT_REACHED "Note.resources" - too many resources on Note • LIMIT_REACHED "Note.tagGuids" - too many Tags on Note • LIMIT_REACHED "Resource.data.size" - resource too large • LIMIT_REACHED "NoteAttribute.∗" - attribute string too long • LIMIT_REACHED "ResourceAttribute.∗" - attribute string too long • PERMISSION_DENIED "Note.notebookGuid" - NB not owned by user • QUOTA_REACHED "Accounting.uploadLimit" - note exceeds upload quota • BAD_DATA_FORMAT "Tag.name" - Note.tagNames was provided, and one of the specified tags had an invalid length or pattern • LIMIT_REACHED "Tag" - Note.tagNames was provided, and the required new tags would exceed the maximum number per account
EDAMNotFoundException	• "Note.notebookGuid" - not found, by GUID

7.46.3.11 createNoteAsync()

```
AsyncResult* qevercloud::NoteStore::createNoteAsync (
            const Note & note,
            QString authenticationToken = QString() )
```

Asynchronous version of createNote

7.46.3.12 createNotebook()

```
Notebook qevercloud::NoteStore::createNotebook (
            const Notebook & notebook,
            QString authenticationToken = QString() )
```

Asks the service to make a notebook with the provided name.

Parameters

notebook	The desired fields for the notebook must be provided on this object. The name of the notebook must be set, and either the 'active' or 'defaultNotebook' fields may be set by the client at creation. If a notebook exists in the account with the same name (via case-insensitive compare), this will throw an EDAMUserException.

Returns

The newly created Notebook. The server-side GUID will be saved in this object's 'guid' field.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Notebook.name" - invalid length or pattern • BAD_DATA_FORMAT "Notebook.stack" - invalid length or pattern • BAD_DATA_FORMAT "Publishing.uri" - if publishing set but bad uri • BAD_DATA_FORMAT "Publishing.publicDescription" - if too long • DATA_CONFLICT "Notebook.name" - name already in use • DATA_CONFLICT "Publishing.uri" - if URI already in use • DATA_REQUIRED "Publishing.uri" - if publishing set but uri missing • LIMIT_REACHED "Notebook" - at max number of notebooks

7.46.3.13 createNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::createNotebookAsync (
            const Notebook & notebook,
            QString authenticationToken = QString() )
```

Asynchronous version of createNotebook

7.46.3.14 createSearch()

```
SavedSearch qevercloud::NoteStore::createSearch (
            const SavedSearch & search,
            QString authenticationToken = QString() )
```

Asks the service to make a saved search with a set of information.

Parameters

search	The desired list of fields for the search are specified in this object. The caller must specify the name and query for the search, and may optionally specify a search scope. The SavedSearch.format field is ignored by the service.

Returns

The newly created SavedSearch. The server-side GUID will be saved in this object.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "SavedSearch.name" - invalid length or pattern • BAD_DATA_FORMAT "SavedSearch.query" - invalid length • DATA_CONFLICT "SavedSearch.name" - name already in use • LIMIT_REACHED "SavedSearch" - at max number of searches

7.46.3.15 createSearchAsync()

```
AsyncResult* qevercloud::NoteStore::createSearchAsync (
            const SavedSearch & search,
            QString authenticationToken = QString() )
```

Asynchronous version of createSearch

7.46.3.16 createSharedNotebook()

```
SharedNotebook qevercloud::NoteStore::createSharedNotebook (
            const SharedNotebook & sharedNotebook,
            QString authenticationToken = QString() )
```

Used to construct a shared notebook object. The constructed notebook will contain a "share key" which serve as a unique identifer and access token for a user to access the notebook of the shared notebook owner.

Parameters

sharedNotebook	A shared notebook object populated with the email address of the share recipient, the notebook guid and the access permissions. All other attributes of the shared object are ignored. The SharedNotebook.allowPreview field must be explicitly set with either a true or false value.

Returns

The fully populated SharedNotebook object including the server assigned share id and shareKey which can both be used to uniquely identify the SharedNotebook.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "SharedNotebook.email" - if the email was not valid • BAD_DATA_FORMAT "requireLogin" - if the SharedNotebook.allowPreview field was not set, and the SharedNotebook.requireLogin was also not set or was set to false. • PERMISSION_DENIED "SharedNotebook.recipientSettings" - if recipientSettings is set in the sharedNotebook. Only the recipient can set these values via the setSharedNotebookRecipientSettings method.
EDAMNotFoundException	• Notebook.guid - if the notebookGuid is not a valid GUID for the user.

7.46.3.17 createSharedNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::createSharedNotebookAsync (
            const SharedNotebook & sharedNotebook,
            QString authenticationToken = QString() )
```

Asynchronous version of createSharedNotebook

7.46.3.18 createTag()

```
Tag qevercloud::NoteStore::createTag (
            const Tag & tag,
            QString authenticationToken = QString() )
```

Asks the service to make a tag with a set of information.

Parameters

tag	The desired list of fields for the tag are specified in this object. The caller must specify the tag name, and may provide the parentGUID.

Returns

The newly created Tag. The server-side GUID will be saved in this object.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Tag.name" - invalid length or pattern • BAD_DATA_FORMAT "Tag.parentGuid" - malformed GUID • DATA_CONFLICT "Tag.name" - name already in use • LIMIT_REACHED "Tag" - at max number of tags
EDAMNotFoundException	• "Tag.parentGuid" - not found, by GUID

7.46.3.19 createTagAsync()

```
AsyncResult* qevercloud::NoteStore::createTagAsync (
             const Tag & tag,
             QString authenticationToken = QString() )
```

Asynchronous version of createTag

7.46.3.20 deleteNote()

```
qint32 qevercloud::NoteStore::deleteNote (
             Guid guid,
             QString authenticationToken = QString() )
```

Moves the note into the trash. The note may still be undeleted, unless it is expunged. This is equivalent to calling updateNote() after setting Note.active = false

Parameters

guid	The GUID of the note to delete.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• PERMISSION_DENIED "Note" - user doesn't have permission to update the note.
EDAMUserException	• DATA_CONFLICT "Note.guid" - the note is already deleted
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.21 deleteNoteAsync()

```
AsyncResult* qevercloud::NoteStore::deleteNoteAsync (
             Guid guid,
             QString authenticationToken = QString() )
```

Asynchronous version of deleteNote

7.46.3.22 emailNote()

```
void qevercloud::NoteStore::emailNote (
             const NoteEmailParameters & parameters,
             QString authenticationToken = QString() )
```

Attempts to send a single note to one or more email recipients.

NOTE: This function is generally not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Parameters

authenticationToken	The note will be sent as the user logged in via this token, using that user's registered email address. If the authenticated user doesn't have permission to read that note, the emailing will fail.
parameters	The note must be specified either by GUID (in which case it will be sent using the existing data in the service), or else the full Note must be passed to this call. This also specifies the additional email fields that will be used in the email.

Exceptions

EDAMUserException	• LIMIT_REACHED "NoteEmailParameters.toAddresses" - The email can't be sent because this would exceed the user's daily email limit. • BAD_DATA_FORMAT "(email address)" - email address malformed • DATA_REQUIRED "NoteEmailParameters.toAddresses" - if there are no To: or Cc: addresses provided. • DATA_REQUIRED "Note.title" - if the caller provides a Note parameter with no title • DATA_REQUIRED "Note.content" - if the caller provides a Note parameter with no content • ENML_VALIDATION "*" - note content doesn't validate against DTD • DATA_REQUIRED "NoteEmailParameters.note" - if no guid or note provided • PERMISSION_DENIED "Note" - private note, user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.23 emailNoteAsync()

```
AsyncResult* qevercloud::NoteStore::emailNoteAsync (
             const NoteEmailParameters & parameters,
             QString authenticationToken = QString() )
```

Asynchronous version of emailNote

7.46.3.24 expungeInactiveNotes()

```
qint32 qevercloud::NoteStore::expungeInactiveNotes (
             QString authenticationToken = QString() )
```

Permanently removes all of the Notes that are currently marked as inactive. This is equivalent to "emptying the trash", and these Notes will be gone permanently.

This operation may be relatively slow if the account contains a large number of inactive Notes.

NOTE: This function is not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Returns

The number of notes that were expunged.

7.46.3.25 expungeInactiveNotesAsync()

```
AsyncResult* qevercloud::NoteStore::expungeInactiveNotesAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of expungeInactiveNotes

7.46.3.26 expungeLinkedNotebook()

```
qint32 qevercloud::NoteStore::expungeLinkedNotebook (
            Guid guid,
            QString authenticationToken = QString() )
```

Permanently expunges the linked notebook from the account.

NOTE: This function is generally not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Parameters

guid	The LinkedNotebook.guid field of the LinkedNotebook to permanently remove from the account.

7.46.3.27 expungeLinkedNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::expungeLinkedNotebookAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of expungeLinkedNotebook

7.46.3.28 expungeNote()

```
qint32 qevercloud::NoteStore::expungeNote (
            Guid guid,
            QString authenticationToken = QString() )
```

Permanently removes a Note, and all of its Resources, from the service.

NOTE: This function is not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Parameters

guid	The GUID of the note to delete.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• PERMISSION_DENIED "Note" - user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.29 expungeNoteAsync()

```
AsyncResult* qevercloud::NoteStore::expungeNoteAsync (
             Guid guid,
             QString authenticationToken = QString() )
```

Asynchronous version of expungeNote

7.46.3.30 expungeNotebook()

```
qint32 qevercloud::NoteStore::expungeNotebook (
             Guid guid,
             QString authenticationToken = QString() )
```

Permanently removes the notebook from the user's account. After this action, the notebook is no longer available for undeletion, etc. If the notebook contains any Notes, they will be moved to the current default notebook and moved into the trash (i.e. Note.active=false).

NOTE: This function is generally not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Parameters

guid	The GUID of the notebook to delete.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Notebook.guid" - if the parameter is missing • LIMIT_REACHED "Notebook" - trying to expunge the last Notebook • PERMISSION_DENIED "Notebook" - private notebook, user doesn't own

7.46.3.31 expungeNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::expungeNotebookAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of expungeNotebook

7.46.3.32 expungeNotes()

```
qint32 qevercloud::NoteStore::expungeNotes (
            QList< Guid > noteGuids,
            QString authenticationToken = QString() )
```

Permanently removes a list of Notes, and all of their Resources, from the service. This should be invoked with a small number of Note GUIDs (e.g. 100 or less) on each call. To expunge a larger number of notes, call this method multiple times. This should also be used to reduce the number of Notes in a notebook before calling expunge↩ Notebook() or in the trash before calling expungeInactiveNotes(), since these calls may be prohibitively slow if there are more than a few hundred notes. If an exception is thrown for any of the GUIDs, then none of the notes will be deleted. I.e. this call can be treated as an atomic transaction.

NOTE: This function is not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Parameters

noteGuids	The list of GUIDs for the Notes to remove.

Returns

The account's updateCount at the end of this operation

Exceptions

EDAMUserException	• PERMISSION_DENIED "Note" - user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.33 expungeNotesAsync()

```
AsyncResult* qevercloud::NoteStore::expungeNotesAsync (
            QList< Guid > noteGuids,
            QString authenticationToken = QString() )
```

Asynchronous version of expungeNotes

7.46.3.34 expungeSearch()

```
qint32 qevercloud::NoteStore::expungeSearch (
            Guid guid,
            QString authenticationToken = QString() )
```

Permanently deletes the saved search with the provided GUID, if present.

NOTE: This function is generally not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Parameters

guid	The GUID of the search to delete.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "SavedSearch.guid" - if the guid parameter is empty • PERMISSION_DENIED "SavedSearch" - user doesn't own
EDAMNotFoundException	• "SavedSearch.guid" - not found, by GUID

7.46.3.35 expungeSearchAsync()

```
AsyncResult* qevercloud::NoteStore::expungeSearchAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of expungeSearch

7.46.3.36 expungeSharedNotebooks()

```
qint32 qevercloud::NoteStore::expungeSharedNotebooks (
            QList< qint64 > sharedNotebookIds,
            QString authenticationToken = QString() )
```

Expunges the SharedNotebooks in the user's account using the SharedNotebook.id as the identifier.

NOTE: This function is generally not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Parameters

sharedNotebookIds	- a list of ShardNotebook.id longs identifying the objects to delete permanently.

Returns

The account's update sequence number.

7.46.3.37 expungeSharedNotebooksAsync()

```
AsyncResult* qevercloud::NoteStore::expungeSharedNotebooksAsync (
            QList< qint64 > sharedNotebookIds,
            QString authenticationToken = QString() )
```

Asynchronous version of expungeSharedNotebooks

7.46.3.38 expungeTag()

```
qint32 qevercloud::NoteStore::expungeTag (
            Guid guid,
            QString authenticationToken = QString() )
```

Permanently deletes the tag with the provided GUID, if present.

NOTE: This function is generally not available to third party applications. Calls will result in an EDAMUserException with the error code PERMISSION_DENIED.

Parameters

guid	The GUID of the tag to delete.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Tag.guid" - if the guid parameter is missing • PERMISSION_DENIED "Tag" - user doesn't own tag
EDAMNotFoundException	• "Tag.guid" - tag not found, by GUID

7.46.3.39 expungeTagAsync()

```
AsyncResult* qevercloud::NoteStore::expungeTagAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of expungeTag

7.46.3.40 findNoteCounts()

```
NoteCollectionCounts qevercloud::NoteStore::findNoteCounts (
            const NoteFilter & filter,
            bool withTrash,
            QString authenticationToken = QString() )
```

This function is used to determine how many notes are found for each notebook and tag in the user's account, given a current set of filter parameters that determine the current selection. This function will return a structure that gives the note count for each notebook and tag that has at least one note under the requested filter. Any notebook or tag that has zero notes in the filtered set will not be listed in the reply to this function (so they can be assumed to be 0).

Parameters

authenticationToken	Must be a valid token for the user's account unless the NoteFilter 'notebookGuid' is the GUID of a public notebook.
filter	The note selection filter that is currently being applied. The note counts are to be calculated with this filter applied to the total set of notes in the user's account.
withTrash	If true, then the NoteCollectionCounts.trashCount will be calculated and supplied in the reply. Otherwise, the trash value will be omitted.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "NoteFilter.notebookGuid" - if malformed • BAD_DATA_FORMAT "NoteFilter.notebookGuids" - if any are malformed • BAD_DATA_FORMAT "NoteFilter.words" - if search string too long

Exceptions

EDAMNotFoundException	• "Notebook.guid" - not found, by GUID

7.46.3.41 findNoteCountsAsync()

```
AsyncResult* qevercloud::NoteStore::findNoteCountsAsync (
            const NoteFilter & filter,
            bool withTrash,
            QString authenticationToken = QString() )
```

Asynchronous version of findNoteCounts

7.46.3.42 findNoteOffset()

```
qint32 qevercloud::NoteStore::findNoteOffset (
            const NoteFilter & filter,
            Guid guid,
            QString authenticationToken = QString() )
```

Finds the position of a note within a sorted subset of all of the user's notes. This may be useful for thin clients that are displaying a paginated listing of a large account, which need to know where a particular note sits in the list without retrieving all notes first.

Parameters

authenticationToken	Must be a valid token for the user's account unless the NoteFilter 'notebookGuid' is the GUID of a public notebook.
filter	The list of criteria that will constrain the notes to be returned.
guid	The GUID of the note to be retrieved.

Returns

If the note with the provided GUID is found within the matching note list, this will return the offset of that note within that list (where the first offset is 0). If the note is not found within the set of notes, this will return -1.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "offset" - not between 0 and EDAM_USER_NOTES_MAX • BAD_DATA_FORMAT "maxNotes" - not between 0 and EDAM_USER_NOTES_MAX • BAD_DATA_FORMAT "NoteFilter.notebookGuid" - if malformed • BAD_DATA_FORMAT "NoteFilter.tagGuids" - if any are malformed • BAD_DATA_FORMAT "NoteFilter.words" - if search string too long
EDAMNotFoundException	• "Notebook.guid" - not found, by GUID • "Note.guid" - not found, by GUID

7.46.3.43 findNoteOffsetAsync()

```
AsyncResult* qevercloud::NoteStore::findNoteOffsetAsync (
            const NoteFilter & filter,
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of findNoteOffset

7.46.3.44 findNotes()

```
NoteList qevercloud::NoteStore::findNotes (
            const NoteFilter & filter,
            qint32 offset,
            qint32 maxNotes,
            QString authenticationToken = QString() )
```

DEPRECATED. Use findNotesMetadata.

7.46.3.45 findNotesAsync()

```
AsyncResult* qevercloud::NoteStore::findNotesAsync (
            const NoteFilter & filter,
            qint32 offset,
            qint32 maxNotes,
            QString authenticationToken = QString() )
```

Asynchronous version of findNotes

7.46.3.46 findNotesMetadata()

```
NotesMetadataList qevercloud::NoteStore::findNotesMetadata (
            const NoteFilter & filter,
            qint32 offset,
            qint32 maxNotes,
            const NotesMetadataResultSpec & resultSpec,
            QString authenticationToken = QString() )
```

Used to find the high-level information about a set of the notes from a user's account based on various criteria specified via a NoteFilter object.

Web applications that wish to periodically check for new content in a user's Evernote account should consider using webhooks instead of polling this API. See http://dev.evernote.com/documentation/cloud/chapters/polling_notification.php for more information.

Parameters

authenticationToken	Must be a valid token for the user's account unless the NoteFilter 'notebookGuid' is the GUID of a public notebook.
filter	The list of criteria that will constrain the notes to be returned.
offset	The numeric index of the first note to show within the sorted results. The numbering scheme starts with "0". This can be used for pagination.
maxNotes	The mximum notes to return in this query. The service will return a set of notes that is no larger than this number, but may return fewer notes if needed. The NoteList.totalNotes field in the return value will indicate whether there are more values available after the returned set.
resultSpec	This specifies which information should be returned for each matching Note. The fields on this structure can be used to eliminate data that the client doesn't need, which will reduce the time and bandwidth to receive and process the reply.

Returns

The list of notes that match the criteria.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "offset" - not between 0 and EDAM_USER_NOTES_MAX • BAD_DATA_FORMAT "maxNotes" - not between 0 and EDAM_USER_NOTES_MAX • BAD_DATA_FORMAT "NoteFilter.notebookGuid" - if malformed • BAD_DATA_FORMAT "NoteFilter.tagGuids" - if any are malformed • BAD_DATA_FORMAT "NoteFilter.words" - if search string too long
EDAMNotFoundException	• "Notebook.guid" - not found, by GUID

7.46.3.47 findNotesMetadataAsync()

```
AsyncResult* qevercloud::NoteStore::findNotesMetadataAsync (
            const NoteFilter & filter,
            qint32 offset,
            qint32 maxNotes,
            const NotesMetadataResultSpec & resultSpec,
            QString authenticationToken = QString() )
```

Asynchronous version of findNotesMetadata

7.46.3.48 findRelated()

```
RelatedResult qevercloud::NoteStore::findRelated (
            const RelatedQuery & query,
            const RelatedResultSpec & resultSpec,
            QString authenticationToken = QString() )
```

Identify related entities on the service, such as notes, notebooks, and tags related to notes or content.

Parameters

query	The information about which we are finding related entities.
resultSpec	Allows the client to indicate the type and quantity of information to be returned, allowing a saving of time and bandwidth.

Returns

The result of the query, with information considered to likely be relevantly related to the information described by the query.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "RelatedQuery.plainText" - If you provided a a zero-length plain text value. • BAD_DATA_FORMAT "RelatedQuery.noteGuid" - If you provided an invalid Note GUID, that is, one that does not match the constraints defined by EDAM_GUID_LEN_MIN, EDAM_GUID_LEN_MAX, EDAM_GUID_REGEX. • BAD_DATA_FORMAT "NoteFilter.notebookGuid" - if malformed • BAD_DATA_FORMAT "NoteFilter.tagGuids" - if any are malformed • BAD_DATA_FORMAT "NoteFilter.words" - if search string too long • PERMISSION_DENIED "Note" - If the caller does not have access to the note identified by RelatedQuery.noteGuid. • DATA_REQUIRED "RelatedResultSpec" - If you did not not set any values in the result spec.
EDAMNotFoundException	• "RelatedQuery.noteGuid" - the note with that GUID is not found, if that field has been set in the query.

7.46.3.49 findRelatedAsync()

```
AsyncResult* qevercloud::NoteStore::findRelatedAsync (
            const RelatedQuery & query,
            const RelatedResultSpec & resultSpec,
            QString authenticationToken = QString() )
```

Asynchronous version of findRelated

7.46.3.50 getDefaultNotebook()

```
Notebook qevercloud::NoteStore::getDefaultNotebook (
            QString authenticationToken = QString() )
```

Returns the notebook that should be used to store new notes in the user's account when no other notebooks are specified.

7.46.3.51 getDefaultNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::getDefaultNotebookAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of getDefaultNotebook

7.46.3.52 getFilteredSyncChunk()

```
SyncChunk qevercloud::NoteStore::getFilteredSyncChunk (
            qint32 afterUSN,
            qint32 maxEntries,
            const SyncChunkFilter & filter,
            QString authenticationToken = QString() )
```

Asks the NoteStore to provide the state of the account in order of last modification. This request retrieves one block of the server's state so that a client can make several small requests against a large account rather than getting the entire state in one big message. This call gives fine-grained control of the data that will be received by a client by omitting data elements that a client doesn't need. This may reduce network traffic and sync times.

Parameters

afterUSN	The client can pass this value to ask only for objects that have been updated after a certain point. This allows the client to receive updates after its last checkpoint rather than doing a full synchronization on every pass. The default value of "0" indicates that the client wants to get objects from the start of the account.
maxEntries	The maximum number of modified objects that should be returned in the result SyncChunk. This can be used to limit the size of each individual message to be friendly for network transfer.
filter	The caller must set some of the flags in this structure to specify which data types should be returned during the synchronization. See the SyncChunkFilter structure for information on each flag.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "afterUSN" - if negative • BAD_DATA_FORMAT "maxEntries" - if less than 1

7.46.3.53 getFilteredSyncChunkAsync()

```
AsyncResult* qevercloud::NoteStore::getFilteredSyncChunkAsync (
             qint32 afterUSN,
             qint32 maxEntries,
             const SyncChunkFilter & filter,
             QString authenticationToken = QString() )
```

Asynchronous version of getFilteredSyncChunk

7.46.3.54 getLinkedNotebookSyncChunk()

```
SyncChunk qevercloud::NoteStore::getLinkedNotebookSyncChunk (
             const LinkedNotebook & linkedNotebook,
             qint32 afterUSN,
             qint32 maxEntries,
             bool fullSyncOnly,
             QString authenticationToken = QString() )
```

Asks the NoteStore to provide information about the contents of a linked notebook that has been shared with the caller, or that is public to the world. This will return a result that is similar to getSyncChunk, but will only contain entries that are visible to the caller. I.e. only that particular Notebook will be visible, along with its Notes, and Tags on those Notes.

This function must be called on the shard that owns the referenced notebook. (I.e. the shardId in /shard/shard↩ Id/edam/note must be the same as LinkedNotebook.shardId.)

Parameters

authenticationToken	This should be an authenticationToken for the guest who has received the invitation to the share. (I.e. this should not be the result of NoteStore.authenticateToSharedNotebook)
linkedNotebook	This structure should contain identifying information and permissions to access the notebook in question. This must contain the valid fields for either a shared notebook (e.g. shareKey) or a public notebook (e.g. username, uri)
afterUSN	The client can pass this value to ask only for objects that have been updated after a certain point. This allows the client to receive updates after its last checkpoint rather than doing a full synchronization on every pass. The default value of "0" indicates that the client wants to get objects from the start of the account.
maxEntries	The maximum number of modified objects that should be returned in the result SyncChunk. This can be used to limit the size of each individual message to be friendly for network transfer. Applications should not request more than 256 objects at a time, and must handle the case where the service returns less than the requested number of objects in a given request even though more objects are available on the service.
fullSyncOnly	If true, then the client only wants initial data for a full sync. In this case, the service will not return any expunged objects, and will not return any Resources, since these are also provided in their corresponding Notes.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "afterUSN" - if negative • BAD_DATA_FORMAT "maxEntries" - if less than 1
EDAMNotFoundException	• "LinkedNotebook" - if the provided information doesn't match any valid notebook • "LinkedNotebook.uri" - if the provided public URI doesn't match any valid notebook • "SharedNotebook.id" - if the provided information indicates a shared notebook that no longer exists

7.46.3.55 getLinkedNotebookSyncChunkAsync()

```
AsyncResult* qevercloud::NoteStore::getLinkedNotebookSyncChunkAsync (
             const LinkedNotebook & linkedNotebook,
             qint32 afterUSN,
             qint32 maxEntries,
             bool fullSyncOnly,
             QString authenticationToken = QString() )
```

Asynchronous version of getLinkedNotebookSyncChunk

7.46.3.56 getLinkedNotebookSyncState()

```
SyncState qevercloud::NoteStore::getLinkedNotebookSyncState (
             const LinkedNotebook & linkedNotebook,
             QString authenticationToken = QString() )
```

Asks the NoteStore to provide information about the status of a linked notebook that has been shared with the caller, or that is public to the world. This will return a result that is similar to getSyncState, but may omit SyncState.uploaded if the caller doesn't have permission to write to the linked notebook.

This function must be called on the shard that owns the referenced notebook. (I.e. the shardId in /shard/shard↩Id/edam/note must be the same as LinkedNotebook.shardId.)

Parameters

authenticationToken	This should be an authenticationToken for the guest who has received the invitation to the share. (I.e. this should not be the result of NoteStore.authenticateToSharedNotebook)
linkedNotebook	This structure should contain identifying information and permissions to access the notebook in question.

7.46.3.57 getLinkedNotebookSyncStateAsync()

```
AsyncResult* qevercloud::NoteStore::getLinkedNotebookSyncStateAsync (
            const LinkedNotebook & linkedNotebook,
            QString authenticationToken = QString() )
```

Asynchronous version of getLinkedNotebookSyncState

7.46.3.58 getNote()

```
Note qevercloud::NoteStore::getNote (
            Guid guid,
            bool withContent,
            bool withResourcesData,
            bool withResourcesRecognition,
            bool withResourcesAlternateData,
            QString authenticationToken = QString() )
```

Returns the current state of the note in the service with the provided GUID. The ENML contents of the note will only be provided if the 'withContent' parameter is true. The service will include the meta-data for each resource in the note, but the binary contents of the resources and their recognition data will be omitted. If the Note is found in a public notebook, the authenticationToken will be ignored (so it could be an empty string). The applicationData fields are returned as keysOnly.

Parameters

guid	The GUID of the note to be retrieved.
withContent	If true, the note will include the ENML contents of its 'content' field.
withResourcesData	If true, any Resource elements in this Note will include the binary contents of their 'data' field's body.
withResourcesRecognition	If true, any Resource elements will include the binary contents of the 'recognition' field's body if recognition data is present.
withResourcesAlternateData	If true, any Resource elements in this Note will include the binary contents of their 'alternateData' fields' body, if an alternate form is present.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.guid" - if the parameter is missing • PERMISSION_DENIED "Note" - private note, user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.59 getNoteApplicationData()

```
LazyMap qevercloud::NoteStore::getNoteApplicationData (
            Guid guid,
            QString authenticationToken = QString() )
```

Get all of the application data for the note identified by GUID, with values returned within the LazyMap fullMap field. If there are no applicationData entries, then a LazyMap with an empty fullMap will be returned. If your application only needs to fetch its own applicationData entry, use getNoteApplicationDataEntry instead.

7.46.3.60 getNoteApplicationDataAsync()

```
AsyncResult* qevercloud::NoteStore::getNoteApplicationDataAsync (
             Guid guid,
             QString authenticationToken = QString() )
```

Asynchronous version of getNoteApplicationData

7.46.3.61 getNoteApplicationDataEntry()

```
QString qevercloud::NoteStore::getNoteApplicationDataEntry (
             Guid guid,
             QString key,
             QString authenticationToken = QString() )
```

Get the value of a single entry in the applicationData map for the note identified by GUID.

Exceptions

EDAMNotFoundException	• "Note.guid" - note not found, by GUID • "NoteAttributes.applicationData.key" - note not found, by key

7.46.3.62 getNoteApplicationDataEntryAsync()

```
AsyncResult* qevercloud::NoteStore::getNoteApplicationDataEntryAsync (
             Guid guid,
             QString key,
             QString authenticationToken = QString() )
```

Asynchronous version of getNoteApplicationDataEntry

7.46.3.63 getNoteAsync()

```
AsyncResult* qevercloud::NoteStore::getNoteAsync (
             Guid guid,
             bool withContent,
             bool withResourcesData,
             bool withResourcesRecognition,
             bool withResourcesAlternateData,
             QString authenticationToken = QString() )
```

Asynchronous version of getNote

7.46.3.64 getNotebook()

```
Notebook qevercloud::NoteStore::getNotebook (
            Guid guid,
            QString authenticationToken = QString() )
```

Returns the current state of the notebook with the provided GUID. The notebook may be active or deleted (but not expunged).

Parameters

guid	The GUID of the notebook to be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Notebook.guid" - if the parameter is missing • PERMISSION_DENIED "Notebook" - private notebook, user doesn't own
EDAMNotFoundException	• "Notebook.guid" - tag not found, by GUID

7.46.3.65 getNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::getNotebookAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getNotebook

7.46.3.66 getNoteContent()

```
QString qevercloud::NoteStore::getNoteContent (
            Guid guid,
            QString authenticationToken = QString() )
```

Returns XHTML contents of the note with the provided GUID. If the Note is found in a public notebook, the authenticationToken will be ignored (so it could be an empty string).

Parameters

guid	The GUID of the note to be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.guid" - if the parameter is missing • PERMISSION_DENIED "Note" - private note, user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.67 getNoteContentAsync()

```
AsyncResult* qevercloud::NoteStore::getNoteContentAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getNoteContent

7.46.3.68 getNoteSearchText()

```
QString qevercloud::NoteStore::getNoteSearchText (
            Guid guid,
            bool noteOnly,
            bool tokenizeForIndexing,
            QString authenticationToken = QString() )
```

Returns a block of the extracted plain text contents of the note with the provided GUID. This text can be indexed for search purposes by a light client that doesn't have capabilities to extract all of the searchable text content from the note and its resources.

If the Note is found in a public notebook, the authenticationToken will be ignored (so it could be an empty string).

Parameters

guid	The GUID of the note to be retrieved.
noteOnly	If true, this will only return the text extracted from the ENML contents of the note itself. If false, this will also include the extracted text from any text-bearing resources (PDF, recognized images)
tokenizeForIndexing	If true, this will break the text into cleanly separated and sanitized tokens. If false, this will return the more raw text extraction, with its original punctuation, capitalization, spacing, etc.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.guid" - if the parameter is missing • PERMISSION_DENIED "Note" - private note, user doesn't own

Exceptions

EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.69 getNoteSearchTextAsync()

```
AsyncResult* qevercloud::NoteStore::getNoteSearchTextAsync (
             Guid guid,
             bool noteOnly,
             bool tokenizeForIndexing,
             QString authenticationToken = QString() )
```

Asynchronous version of getNoteSearchText

7.46.3.70 getNoteTagNames()

```
QStringList qevercloud::NoteStore::getNoteTagNames (
             Guid guid,
             QString authenticationToken = QString() )
```

Returns a list of the names of the tags for the note with the provided guid. This can be used with authentication to get the tags for a user's own note, or can be used without valid authentication to retrieve the names of the tags for a note in a public notebook.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.guid" - if the parameter is missing • PERMISSION_DENIED "Note" - private note, user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.71 getNoteTagNamesAsync()

```
AsyncResult* qevercloud::NoteStore::getNoteTagNamesAsync (
             Guid guid,
             QString authenticationToken = QString() )
```

Asynchronous version of getNoteTagNames

7.46.3.72 getNoteVersion()

```
Note qevercloud::NoteStore::getNoteVersion (
            Guid noteGuid,
            qint32 updateSequenceNum,
            bool withResourcesData,
            bool withResourcesRecognition,
            bool withResourcesAlternateData,
            QString authenticationToken = QString() )
```

This can be used to retrieve a previous version of a Note after it has been updated within the service. The caller must identify the note (via its guid) and the version (via the updateSequenceNumber of that version). to find a listing of the stored version USNs for a note, call listNoteVersions. This call is only available for notes in Premium accounts. (I.e. access to past versions of Notes is a Premium-only feature.)

Parameters

noteGuid	The GUID of the note to be retrieved.
updateSequenceNum	The USN of the version of the note that is being retrieved
withResourcesData	If true, any Resource elements in this Note will include the binary contents of their 'data' field's body.
withResourcesRecognition	If true, any Resource elements will include the binary contents of the 'recognition' field's body if recognition data is present.
withResourcesAlternateData	If true, any Resource elements in this Note will include the binary contents of their 'alternateData' fields' body, if an alternate form is present.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.guid" - if the parameter is missing • PERMISSION_DENIED "Note" - private note, user doesn't own • PERMISSION_DENIED "updateSequenceNum" - The account isn't permitted to access previous versions of notes. (i.e. this is a Free account.)
EDAMNotFoundException	• "Note.guid" - not found, by GUID • "Note.updateSequenceNumber" - the Note doesn't have a version with the corresponding USN.

7.46.3.73 getNoteVersionAsync()

```
AsyncResult* qevercloud::NoteStore::getNoteVersionAsync (
            Guid noteGuid,
            qint32 updateSequenceNum,
            bool withResourcesData,
            bool withResourcesRecognition,
            bool withResourcesAlternateData,
            QString authenticationToken = QString() )
```

Asynchronous version of getNoteVersion

7.46.3.74 getPublicNotebook()

```
Notebook qevercloud::NoteStore::getPublicNotebook (
            UserID userId,
            QString publicUri )
```

Looks for a user account with the provided userId on this NoteStore shard and determines whether that account contains a public notebook with the given URI. If the account is not found, or no public notebook exists with this URI, this will throw an EDAMNotFoundException, otherwise this will return the information for that Notebook.

If a notebook is visible on the web with a full URL like `http://www.evernote.com/pub/sethdemo/api` Then 'sethdemo' is the username that can be used to look up the userId, and 'api' is the publicUri.

Parameters

userId	The numeric identifier for the user who owns the public notebook. To find this value based on a username string, you can invoke UserStore.getPublicUserInfo
publicUri	The uri string for the public notebook, from Notebook.publishing.uri.

Exceptions

EDAMNotFoundException	• "Publishing.uri" - not found, by URI
EDAMSystemException	• TAKEN_DOWN "PublicNotebook" - The specified public notebook is taken down (for all requesters). • TAKEN_DOWN "Country" - The specified public notebook is taken down for the requester because of an IP-based country lookup.

7.46.3.75 getPublicNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::getPublicNotebookAsync (
            UserID userId,
            QString publicUri )
```

Asynchronous version of getPublicNotebook

7.46.3.76 getResource()

```
Resource qevercloud::NoteStore::getResource (
            Guid guid,
            bool withData,
            bool withRecognition,
            bool withAttributes,
            bool withAlternateData,
            QString authenticationToken = QString() )
```

Returns the current state of the resource in the service with the provided GUID. If the Resource is found in a public notebook, the authenticationToken will be ignored (so it could be an empty string). Only the keys for the applicationData will be returned.

Parameters

guid	The GUID of the resource to be retrieved.
withData	If true, the Resource will include the binary contents of the 'data' field's body.
withRecognition	If true, the Resource will include the binary contents of the 'recognition' field's body if recognition data is present.
withAttributes	If true, the Resource will include the attributes
withAlternateData	If true, the Resource will include the binary contents of the 'alternateData' field's body, if an alternate form is present.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Resource.guid" - if the parameter is missing • PERMISSION_DENIED "Resource" - private resource, user doesn't own
EDAMNotFoundException	• "Resource.guid" - not found, by GUID

7.46.3.77 getResourceAlternateData()

```
QByteArray qevercloud::NoteStore::getResourceAlternateData (
            Guid guid,
            QString authenticationToken = QString() )
```

If the Resource with the provided GUID has an alternate data representation (indicated via the Resource.alternate↩ Data field), then this request can be used to retrieve the binary contents of that alternate data file. If the caller asks about a resource that has no alternate data form, this will throw EDAMNotFoundException.

Parameters

guid	The GUID of the resource whose recognition data should be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Resource.guid" - if the parameter is missing • PERMISSION_DENIED "Resource" - private resource, user doesn't own
EDAMNotFoundException	• "Resource.guid" - not found, by GUID • "Resource.alternateData" - resource has no recognition

7.46.3.78 getResourceAlternateDataAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceAlternateDataAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getResourceAlternateData

7.46.3.79 getResourceApplicationData()

```
LazyMap qevercloud::NoteStore::getResourceApplicationData (
            Guid guid,
            QString authenticationToken = QString() )
```

Get all of the application data for the Resource identified by GUID, with values returned within the LazyMap fullMap field. If there are no applicationData entries, then a LazyMap with an empty fullMap will be returned. If your application only needs to fetch its own applicationData entry, use getResourceApplicationDataEntry instead.

7.46.3.80 getResourceApplicationDataAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceApplicationDataAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getResourceApplicationData

7.46.3.81 getResourceApplicationDataEntry()

```
QString qevercloud::NoteStore::getResourceApplicationDataEntry (
            Guid guid,
            QString key,
            QString authenticationToken = QString() )
```

Get the value of a single entry in the applicationData map for the Resource identified by GUID.

Exceptions

EDAMNotFoundException	• "Resource.guid" - Resource not found, by GUID • "ResourceAttributes.applicationData.key" - Resource not found, by key

7.46.3.82 getResourceApplicationDataEntryAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceApplicationDataEntryAsync (
            Guid guid,
```

```
            QString key,
            QString authenticationToken = QString() )
```

Asynchronous version of getResourceApplicationDataEntry

7.46.3.83 getResourceAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceAsync (
            Guid guid,
            bool withData,
            bool withRecognition,
            bool withAttributes,
            bool withAlternateData,
            QString authenticationToken = QString() )
```

Asynchronous version of getResource

7.46.3.84 getResourceAttributes()

```
ResourceAttributes qevercloud::NoteStore::getResourceAttributes (
            Guid guid,
            QString authenticationToken = QString() )
```

Returns the set of attributes for the Resource with the provided GUID. If the Resource is found in a public notebook, the authenticationToken will be ignored (so it could be an empty string).

Parameters

guid	The GUID of the resource whose attributes should be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Resource.guid" - if the parameter is missing • PERMISSION_DENIED "Resource" - private resource, user doesn't own
EDAMNotFoundException	• "Resource.guid" - not found, by GUID

7.46.3.85 getResourceAttributesAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceAttributesAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getResourceAttributes

7.46.3.86 getResourceByHash()

```
Resource qevercloud::NoteStore::getResourceByHash (
            Guid noteGuid,
            QByteArray contentHash,
            bool withData,
            bool withRecognition,
            bool withAlternateData,
            QString authenticationToken = QString() )
```

Returns the current state of a resource, referenced by containing note GUID and resource content hash.

Parameters

noteGuid	The GUID of the note that holds the resource to be retrieved.
contentHash	The MD5 checksum of the resource within that note. Note that this is the binary checksum, for example from Resource.data.bodyHash, and not the hex-encoded checksum that is used within an en-media tag in a note body.
withData	If true, the Resource will include the binary contents of the 'data' field's body.
withRecognition	If true, the Resource will include the binary contents of the 'recognition' field's body.
withAlternateData	If true, the Resource will include the binary contents of the 'alternateData' field's body, if an alternate form is present.

Exceptions

EDAMUserException	• DATA_REQUIRED "Note.guid" - noteGuid param missing • DATA_REQUIRED "Note.contentHash" - contentHash param missing • PERMISSION_DENIED "Resource" - private resource, user doesn't own
EDAMNotFoundException	• "Note" - not found, by guid • "Resource" - not found, by hash

7.46.3.87 getResourceByHashAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceByHashAsync (
            Guid noteGuid,
            QByteArray contentHash,
            bool withData,
            bool withRecognition,
            bool withAlternateData,
            QString authenticationToken = QString() )
```

Asynchronous version of getResourceByHash

7.46.3.88 getResourceData()

```
QByteArray qevercloud::NoteStore::getResourceData (
            Guid guid,
            QString authenticationToken = QString() )
```

Returns binary data of the resource with the provided GUID. For example, if this were an image resource, this would contain the raw bits of the image. If the Resource is found in a public notebook, the authenticationToken will be ignored (so it could be an empty string).

Parameters

guid	The GUID of the resource to be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Resource.guid" - if the parameter is missing • PERMISSION_DENIED "Resource" - private resource, user doesn't own
EDAMNotFoundException	• "Resource.guid" - not found, by GUID

7.46.3.89 getResourceDataAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceDataAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getResourceData

7.46.3.90 getResourceRecognition()

```
QByteArray qevercloud::NoteStore::getResourceRecognition (
            Guid guid,
            QString authenticationToken = QString() )
```

Returns the binary contents of the recognition index for the resource with the provided GUID. If the caller asks about a resource that has no recognition data, this will throw EDAMNotFoundException. If the Resource is found in a public notebook, the authenticationToken will be ignored (so it could be an empty string).

Parameters

guid	The GUID of the resource whose recognition data should be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Resource.guid" - if the parameter is missing • PERMISSION_DENIED "Resource" - private resource, user doesn't own
EDAMNotFoundException	• "Resource.guid" - not found, by GUID • "Resource.recognition" - resource has no recognition

7.46.3.91 getResourceRecognitionAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceRecognitionAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getResourceRecognition

7.46.3.92 getResourceSearchText()

```
QString qevercloud::NoteStore::getResourceSearchText (
            Guid guid,
            QString authenticationToken = QString() )
```

Returns a block of the extracted plain text contents of the resource with the provided GUID. This text can be indexed for search purposes by a light client that doesn't have capability to extract all of the searchable text content from a resource.

If the Resource is found in a public notebook, the authenticationToken will be ignored (so it could be an empty string).

Parameters

guid	The GUID of the resource to be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Resource.guid" - if the parameter is missing • PERMISSION_DENIED "Resource" - private resource, user doesn't own
EDAMNotFoundException	• "Resource.guid" - not found, by GUID

7.46.3.93 getResourceSearchTextAsync()

```
AsyncResult* qevercloud::NoteStore::getResourceSearchTextAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getResourceSearchText

7.46.3.94 getSearch()

```
SavedSearch qevercloud::NoteStore::getSearch (
            Guid guid,
            QString authenticationToken = QString() )
```

Returns the current state of the search with the provided GUID.

Parameters

guid	The GUID of the search to be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "SavedSearch.guid" - if the parameter is missing • PERMISSION_DENIED "SavedSearch" - private Tag, user doesn't own
EDAMNotFoundException	• "SavedSearch.guid" - not found, by GUID

7.46.3.95 getSearchAsync()

```
AsyncResult* qevercloud::NoteStore::getSearchAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getSearch

7.46.3.96 getSharedNotebookByAuth()

```
SharedNotebook qevercloud::NoteStore::getSharedNotebookByAuth (
            QString authenticationToken = QString() )
```

This function is used to retrieve extended information about a shared notebook by a guest who has already authenticated to access that notebook. This requires an 'authenticationToken' parameter which should be the resut of a call to authenticateToSharedNotebook(...). I.e. this is the token that gives access to the particular shared notebook in someone else's account – it's not the authenticationToken for the owner of the notebook itself.

Parameters

authenticationToken	Should be the authentication token retrieved from the reply of authenticateToSharedNotebook(), proving access to a particular shared notebook.

Exceptions

EDAMUserException	• PERMISSION_DENIED "authenticationToken" - authentication token doesn't correspond to a valid shared notebook
EDAMNotFoundException	• "SharedNotebook.id" - the shared notebook no longer exists

7.46.3.97 getSharedNotebookByAuthAsync()

```
AsyncResult* qevercloud::NoteStore::getSharedNotebookByAuthAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of getSharedNotebookByAuth

7.46.3.98 getSyncChunk()

```
SyncChunk qevercloud::NoteStore::getSyncChunk (
            qint32 afterUSN,
            qint32 maxEntries,
            bool fullSyncOnly,
            QString authenticationToken = QString() )
```

DEPRECATED - use getFilteredSyncChunk.

7.46.3.99 getSyncChunkAsync()

```
AsyncResult* qevercloud::NoteStore::getSyncChunkAsync (
            qint32 afterUSN,
            qint32 maxEntries,
            bool fullSyncOnly,
            QString authenticationToken = QString() )
```

Asynchronous version of getSyncChunk

7.46.3.100 getSyncState()

```
SyncState qevercloud::NoteStore::getSyncState (
            QString authenticationToken = QString() )
```

Asks the NoteStore to provide information about the status of the user account corresponding to the provided authentication token.

7.46.3.101 getSyncStateAsync()

```
AsyncResult* qevercloud::NoteStore::getSyncStateAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of getSyncState

7.46.3.102 getSyncStateWithMetrics()

```
SyncState qevercloud::NoteStore::getSyncStateWithMetrics (
            const ClientUsageMetrics & clientMetrics,
            QString authenticationToken = QString() )
```

Asks the NoteStore to provide information about the status of the user account corresponding to the provided authentication token. This version of 'getSyncState' allows the client to upload coarse- grained usage metrics to the service.

Parameters

clientMetrics	see the documentation of the ClientUsageMetrics structure for an explanation of the fields that clients can pass to the service.

7.46.3.103 getSyncStateWithMetricsAsync()

```
AsyncResult* qevercloud::NoteStore::getSyncStateWithMetricsAsync (
            const ClientUsageMetrics & clientMetrics,
            QString authenticationToken = QString() )
```

Asynchronous version of getSyncStateWithMetrics

7.46.3.104 getTag()

```
Tag qevercloud::NoteStore::getTag (
            Guid guid,
            QString authenticationToken = QString() )
```

Returns the current state of the Tag with the provided GUID.

Parameters

guid	The GUID of the tag to be retrieved.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Tag.guid" - if the parameter is missing • PERMISSION_DENIED "Tag" - private Tag, user doesn't own
EDAMNotFoundException	• "Tag.guid" - tag not found, by GUID

7.46.3.105 getTagAsync()

```
AsyncResult* qevercloud::NoteStore::getTagAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of getTag

7.46.3.106 listLinkedNotebooks()

```
QList< LinkedNotebook > qevercloud::NoteStore::listLinkedNotebooks (
            QString authenticationToken = QString() )
```

Returns a list of linked notebooks

7.46.3.107 listLinkedNotebooksAsync()

```
AsyncResult* qevercloud::NoteStore::listLinkedNotebooksAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of listLinkedNotebooks

7.46.3.108 listNotebooks()

```
QList< Notebook > qevercloud::NoteStore::listNotebooks (
            QString authenticationToken = QString() )
```

Returns a list of all of the notebooks in the account.

7.46.3.109 listNotebooksAsync()

```
AsyncResult* qevercloud::NoteStore::listNotebooksAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of listNotebooks

7.46.3.110 listNoteVersions()

```
QList< NoteVersionId > qevercloud::NoteStore::listNoteVersions (
            Guid noteGuid,
            QString authenticationToken = QString() )
```

Returns a list of the prior versions of a particular note that are saved within the service. These prior versions are stored to provide a recovery from unintentional removal of content from a note. The identifiers that are returned by this call can be used with getNoteVersion to retrieve the previous note. The identifiers will be listed from the most recent versions to the oldest.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.guid" - if the parameter is missing • PERMISSION_DENIED "Note" - private note, user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.111 listNoteVersionsAsync()

```
AsyncResult* qevercloud::NoteStore::listNoteVersionsAsync (
            Guid noteGuid,
            QString authenticationToken = QString() )
```

Asynchronous version of listNoteVersions

7.46.3.112 listSearches()

```
QList< SavedSearch > qevercloud::NoteStore::listSearches (
            QString authenticationToken = QString() )
```

Returns a list of the searches in the account. Evernote does not support the undeletion of searches, so this will only include active searches.

7.46.3.113 listSearchesAsync()

```
AsyncResult* qevercloud::NoteStore::listSearchesAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of listSearches

7.46.3.114 listSharedNotebooks()

```
QList< SharedNotebook > qevercloud::NoteStore::listSharedNotebooks (
            QString authenticationToken = QString() )
```

Lists the collection of shared notebooks for all notebooks in the users account.

Returns

The list of all SharedNotebooks for the user

7.46.3.115 listSharedNotebooksAsync()

```
AsyncResult* qevercloud::NoteStore::listSharedNotebooksAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of listSharedNotebooks

7.46.3.116 listTags()

```
QList< Tag > qevercloud::NoteStore::listTags (
            QString authenticationToken = QString() )
```

Returns a list of the tags in the account. Evernote does not support the undeletion of tags, so this will only include active tags.

7.46.3.117 listTagsAsync()

```
AsyncResult* qevercloud::NoteStore::listTagsAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of listTags

7.46.3.118 listTagsByNotebook()

```
QList< Tag > qevercloud::NoteStore::listTagsByNotebook (
            Guid notebookGuid,
            QString authenticationToken = QString() )
```

Returns a list of the tags that are applied to at least one note within the provided notebook. If the notebook is public, the authenticationToken may be ignored.

Parameters

notebookGuid	the GUID of the notebook to use to find tags

Exceptions

EDAMNotFoundException	• "Notebook.guid" - notebook not found by GUID

7.46.3.119 listTagsByNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::listTagsByNotebookAsync (
            Guid notebookGuid,
            QString authenticationToken = QString() )
```

Asynchronous version of listTagsByNotebook

7.46.3.120 noteStoreUrl()

```
QString qevercloud::NoteStore::noteStoreUrl ( )  [inline]
```

7.46.3.121 sendMessageToSharedNotebookMembers()

```
qint32 qevercloud::NoteStore::sendMessageToSharedNotebookMembers (
            Guid notebookGuid,
            QString messageText,
            QStringList recipients,
            QString authenticationToken = QString() )
```

Send a reminder message to some or all of the email addresses that a notebook has been shared with. The message includes the current link to view the notebook.

Parameters

authenticationToken	The auth token of the user with permissions to share the notebook
notebookGuid	The guid of the shared notebook
messageText	User provided text to include in the email
recipients	The email addresses of the recipients. If this list is empty then all of the users that the notebook has been shared with are emailed. If an email address doesn't correspond to share invite members then that address is ignored.

Returns

The number of messages sent

Exceptions

EDAMUserException	• LIMIT_REACHED "(recipients)" - The email can't be sent because this would exceed the user's daily email limit. • PERMISSION_DENIED "Notebook.guid" - The user doesn't have permission to send a message for the specified notebook.
EDAMNotFoundException	• "Notebook.guid" - not found, by GUID

7.46.3.122 sendMessageToSharedNotebookMembersAsync()

```
AsyncResult* qevercloud::NoteStore::sendMessageToSharedNotebookMembersAsync (
            Guid notebookGuid,
            QString messageText,
```

```
            QStringList recipients,
            QString authenticationToken = QString() )
```

Asynchronous version of sendMessageToSharedNotebookMembers

7.46.3.123 setAuthenticationToken()

```
void qevercloud::NoteStore::setAuthenticationToken (
            QString authenticationToken )  [inline]
```

7.46.3.124 setNoteApplicationDataEntry()

```
qint32 qevercloud::NoteStore::setNoteApplicationDataEntry (
            Guid guid,
            QString key,
            QString value,
            QString authenticationToken = QString() )
```

Update, or create, an entry in the applicationData map for the note identified by guid.

7.46.3.125 setNoteApplicationDataEntryAsync()

```
AsyncResult* qevercloud::NoteStore::setNoteApplicationDataEntryAsync (
            Guid guid,
            QString key,
            QString value,
            QString authenticationToken = QString() )
```

Asynchronous version of setNoteApplicationDataEntry

7.46.3.126 setNoteStoreUrl()

```
void qevercloud::NoteStore::setNoteStoreUrl (
            QString noteStoreUrl )  [inline]
```

7.46.3.127 setResourceApplicationDataEntry()

```
qint32 qevercloud::NoteStore::setResourceApplicationDataEntry (
            Guid guid,
            QString key,
            QString value,
            QString authenticationToken = QString() )
```

Update, or create, an entry in the applicationData map for the Resource identified by guid.

7.46.3.128 setResourceApplicationDataEntryAsync()

```
AsyncResult* qevercloud::NoteStore::setResourceApplicationDataEntryAsync (
            Guid guid,
            QString key,
            QString value,
            QString authenticationToken = QString() )
```

Asynchronous version of setResourceApplicationDataEntry

7.46.3.129 setSharedNotebookRecipientSettings()

```
qint32 qevercloud::NoteStore::setSharedNotebookRecipientSettings (
            qint64 sharedNotebookId,
            const SharedNotebookRecipientSettings & recipientSettings,
            QString authenticationToken = QString() )
```

Set values for the recipient settings associated with a shared notebook. Having update rights to the shared notebook record itself has no effect on this call; only the recipient of the shared notebook can can the recipient settings.

If you do *not* wish to, or cannot, change one of the reminderNotifyEmail or reminderNotifyInApp fields, you must leave that field unset in recipientSettings. This method will skip that field for updates and leave the existing state as it is.

Returns

The update sequence number of the account to which the shared notebook belongs, which is the account from which we are sharing a notebook.

Exceptions

EDAMNotFoundException	"sharedNotebookId" - Thrown if the service does not have a shared notebook record for the sharedNotebookId on the given shard. If you receive this exception, it is probable that the shared notebook record has been revoked or expired, or that you accessed the wrong shard.
EDAMUserException	• PEMISSION_DENIED "authenticationToken" - If you do not have permission to set the recipient settings for the shared notebook. Only the recipient has permission to do this. • DATA_CONFLICT "recipientSettings.reminderNotifyEmail" - Setting whether or not you want to receive reminder e-mail notifications is possible on a business notebook in the business to which the user belongs. All others can safely unset the reminderNotifyEmail field from the recipientSettings parameter.

7.46.3.130 setSharedNotebookRecipientSettingsAsync()

```
AsyncResult* qevercloud::NoteStore::setSharedNotebookRecipientSettingsAsync (
            qint64 sharedNotebookId,
```

```
            const SharedNotebookRecipientSettings & recipientSettings,
            QString authenticationToken = QString() )
```

Asynchronous version of setSharedNotebookRecipientSettings

7.46.3.131 shareNote()

```
QString qevercloud::NoteStore::shareNote (
            Guid guid,
            QString authenticationToken = QString() )
```

If this note is not already shared (via its own direct URL), then this will start sharing that note. This will return the secret "Note Key" for this note that can currently be used in conjunction with the Note's GUID to gain direct read-only access to the Note. If the note is already shared, then this won't make any changes to the note, and the existing "Note Key" will be returned. The only way to change the Note Key for an existing note is to stopSharingNote first, and then call this function.

Parameters

guid	The GUID of the note to be shared.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.guid" - if the parameter is missing • PERMISSION_DENIED "Note" - private note, user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.132 shareNoteAsync()

```
AsyncResult* qevercloud::NoteStore::shareNoteAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of shareNote

7.46.3.133 stopSharingNote()

```
void qevercloud::NoteStore::stopSharingNote (
            Guid guid,
            QString authenticationToken = QString() )
```

If this note is not already shared then this will stop sharing that note and invalidate its "Note Key", so any existing URLs to access that Note will stop working. If the Note is not shared, then this function will do nothing.

Parameters

guid	The GUID of the note to be un-shared.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.guid" - if the parameter is missing • PERMISSION_DENIED "Note" - private note, user doesn't own
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.46.3.134 stopSharingNoteAsync()

```
AsyncResult* qevercloud::NoteStore::stopSharingNoteAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of stopSharingNote

7.46.3.135 unsetNoteApplicationDataEntry()

```
qint32 qevercloud::NoteStore::unsetNoteApplicationDataEntry (
            Guid guid,
            QString key,
            QString authenticationToken = QString() )
```

Remove an entry identified by 'key' from the applicationData map for the note identified by 'guid'. Silently ignores an unset of a non-existing key.

7.46.3.136 unsetNoteApplicationDataEntryAsync()

```
AsyncResult* qevercloud::NoteStore::unsetNoteApplicationDataEntryAsync (
            Guid guid,
            QString key,
            QString authenticationToken = QString() )
```

Asynchronous version of unsetNoteApplicationDataEntry

7.46.3.137 unsetResourceApplicationDataEntry()

```
qint32 qevercloud::NoteStore::unsetResourceApplicationDataEntry (
            Guid guid,
            QString key,
            QString authenticationToken = QString() )
```

Remove an entry identified by 'key' from the applicationData map for the Resource identified by 'guid'.

7.46.3.138 unsetResourceApplicationDataEntryAsync()

```
AsyncResult* qevercloud::NoteStore::unsetResourceApplicationDataEntryAsync (
            Guid guid,
            QString key,
            QString authenticationToken = QString() )
```

Asynchronous version of unsetResourceApplicationDataEntry

7.46.3.139 untagAll()

```
void qevercloud::NoteStore::untagAll (
            Guid guid,
            QString authenticationToken = QString() )
```

Removes the provided tag from every note that is currently tagged with this tag. If this operation is successful, the tag will still be in the account, but it will not be tagged on any notes.

This function is not indended for use by full synchronizing clients, since it does not provide enough result information to the client to reconcile the local state without performing a follow-up sync from the service. This is intended for "thin clients" that need to efficiently support this as a UI operation.

Parameters

guid	The GUID of the tag to remove from all notes.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Tag.guid" - if the guid parameter is missing • PERMISSION_DENIED "Tag" - user doesn't own tag
EDAMNotFoundException	• "Tag.guid" - tag not found, by GUID

7.46.3.140 untagAllAsync()

```
AsyncResult* qevercloud::NoteStore::untagAllAsync (
            Guid guid,
            QString authenticationToken = QString() )
```

Asynchronous version of untagAll

7.46.3.141 updateLinkedNotebook()

```
qint32 qevercloud::NoteStore::updateLinkedNotebook (
            const LinkedNotebook & linkedNotebook,
            QString authenticationToken = QString() )
```

Parameters

linkedNotebook	Updates the name of a linked notebook.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "LinkedNotebook.name" - invalid length or pattern

7.46.3.142 updateLinkedNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::updateLinkedNotebookAsync (
            const LinkedNotebook & linkedNotebook,
            QString authenticationToken = QString() )
```

Asynchronous version of updateLinkedNotebook

7.46.3.143 updateNote()

```
Note qevercloud::NoteStore::updateNote (
            const Note & note,
            QString authenticationToken = QString() )
```

Submit a set of changes to a note to the service. The provided data must include the note's guid field for identification. The note's title must also be set.

Parameters

note	A Note object containing the desired fields to be populated on the service. With the exception of the note's title and guid, fields that are not being changed do not need to be set. If the content is not being modified, note.content should be left unset. If the list of resources is not being modified, note.resources should be left unset.

Returns

The metadata (no contents) for the Note on the server after the update

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Note.title" - invalid length or pattern • BAD_DATA_FORMAT "Note.content" - invalid length for ENML body • BAD_DATA_FORMAT "NoteAttributes.∗" - bad resource string • BAD_DATA_FORMAT "ResourceAttributes.∗" - bad resource string • BAD_DATA_FORMAT "Resource.mime" - invalid resource MIME type • DATA_CONFLICT "Note.deleted" - deleted time set on active note • DATA_REQUIRED "Resource.data" - resource data body missing • ENML_VALIDATION "∗" - note content doesn't validate against DTD • LIMIT_REACHED "Note.tagGuids" - too many Tags on Note • LIMIT_REACHED "Note.resources" - too many resources on Note • LIMIT_REACHED "Note.size" - total note size too large • LIMIT_REACHED "Resource.data.size" - resource too large • LIMIT_REACHED "NoteAttribute.∗" - attribute string too long • LIMIT_REACHED "ResourceAttribute.∗" - attribute string too long • PERMISSION_DENIED "Note" - user doesn't own • PERMISSION_DENIED "Note.notebookGuid" - user doesn't own destination • QUOTA_REACHED "Accounting.uploadLimit" - note exceeds upload quota • BAD_DATA_FORMAT "Tag.name" - Note.tagNames was provided, and one of the specified tags had an invalid length or pattern • LIMIT_REACHED "Tag" - Note.tagNames was provided, and the required new tags would exceed the maximum number per account
EDAMNotFoundException	• "Note.guid" - note not found, by GUID • "Note.notebookGuid" - if notebookGuid provided, but not found

7.46.3.144 updateNoteAsync()

```
AsyncResult* qevercloud::NoteStore::updateNoteAsync (
             const Note & note,
             QString authenticationToken = QString() )
```

Asynchronous version of updateNote

7.46.3.145 updateNotebook()

```
qint32 qevercloud::NoteStore::updateNotebook (
            const Notebook & notebook,
            QString authenticationToken = QString() )
```

Submits notebook changes to the service. The provided data must include the notebook's guid field for identification.

Parameters

notebook	The notebook object containing the requested changes.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Notebook.name" - invalid length or pattern • BAD_DATA_FORMAT "Notebook.stack" - invalid length or pattern • BAD_DATA_FORMAT "Publishing.uri" - if publishing set but bad uri • BAD_DATA_FORMAT "Publishing.publicDescription" - if too long • DATA_CONFLICT "Notebook.name" - name already in use • DATA_CONFLICT "Publishing.uri" - if URI already in use • DATA_REQUIRED "Publishing.uri" - if publishing set but uri missing
EDAMNotFoundException	• "Notebook.guid" - not found, by GUID

7.46.3.146 updateNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::updateNotebookAsync (
            const Notebook & notebook,
            QString authenticationToken = QString() )
```

Asynchronous version of updateNotebook

7.46.3.147 updateResource()

```
qint32 qevercloud::NoteStore::updateResource (
            const Resource & resource,
            QString authenticationToken = QString() )
```

Submit a set of changes to a resource to the service. This can be used to update the meta-data about the resource, but cannot be used to change the binary contents of the resource (including the length and hash). These cannot be changed directly without creating a new resource and removing the old one via updateNote.

Parameters

resource	A Resource object containing the desired fields to be populated on the service. The service will attempt to update the resource with the following fields from the client: • guid: must be provided to identify the resource • mime • width • height • duration • attributes: optional. if present, the set of attributes will be replaced.

Returns

The Update Sequence Number of the resource after the changes have been applied.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Resource.guid" - if the parameter is missing • BAD_DATA_FORMAT "Resource.mime" - invalid resource MIME type • BAD_DATA_FORMAT "ResourceAttributes.∗" - bad resource string • LIMIT_REACHED "ResourceAttribute.∗" - attribute string too long • PERMISSION_DENIED "Resource" - private resource, user doesn't own
EDAMNotFoundException	• "Resource.guid" - not found, by GUID

7.46.3.148 updateResourceAsync()

```
AsyncResult* qevercloud::NoteStore::updateResourceAsync (
             const Resource & resource,
             QString authenticationToken = QString() )
```

Asynchronous version of updateResource

7.46.3.149 updateSearch()

```
qint32 qevercloud::NoteStore::updateSearch (
             const SavedSearch & search,
             QString authenticationToken = QString() )
```

Submits search changes to the service. The provided data must include the search's guid field for identification. The service will apply updates to the following search fields: name, query, and scope.

Parameters

search	The search object containing the requested changes.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "SavedSearch.name" - invalid length or pattern • BAD_DATA_FORMAT "SavedSearch.query" - invalid length • DATA_CONFLICT "SavedSearch.name" - name already in use • PERMISSION_DENIED "SavedSearch" - user doesn't own tag
EDAMNotFoundException	• "SavedSearch.guid" - not found, by GUID

7.46.3.150 updateSearchAsync()

```
AsyncResult* qevercloud::NoteStore::updateSearchAsync (
             const SavedSearch & search,
             QString authenticationToken = QString() )
```

Asynchronous version of updateSearch

7.46.3.151 updateSharedNotebook()

```
qint32 qevercloud::NoteStore::updateSharedNotebook (
             const SharedNotebook & sharedNotebook,
             QString authenticationToken = QString() )
```

Update a SharedNotebook object.

Parameters

authenticationToken	Must be an authentication token from the owner or a shared notebook authentication token or business authentication token with sufficient permissions to change invitations for a notebook.
sharedNotebook	The SharedNotebook object containing the requested changes. The "id" of the shared notebook must be set to allow the service to identify the SharedNotebook to be updated. In addition, you MUST set the email, permission, and allowPreview fields to the desired values. All other fields will be ignored if set.

Returns

The Update Serial Number for this change within the account.

Exceptions

EDAMUserException	• UNSUPPORTED_OPERATION "updateSharedNotebook" - if this service instance does not support shared notebooks. • BAD_DATA_FORMAT "SharedNotebook.email" - if the email was not valid. • DATA_REQUIRED "SharedNotebook.id" - if the id field was not set. • DATA_REQUIRED "SharedNotebook.privilege" - if the privilege field was not set. • DATA_REQUIRED "SharedNotebook.allowPreview" - if the allowPreview field was not set.
EDAMNotFoundException	• SharedNotebook.id - if no shared notebook with the specified ID was found.

7.46.3.152 updateSharedNotebookAsync()

```
AsyncResult* qevercloud::NoteStore::updateSharedNotebookAsync (
             const SharedNotebook & sharedNotebook,
             QString authenticationToken = QString() )
```

Asynchronous version of updateSharedNotebook

7.46.3.153 updateTag()

```
qint32 qevercloud::NoteStore::updateTag (
             const Tag & tag,
             QString authenticationToken = QString() )
```

Submits tag changes to the service. The provided data must include the tag's guid field for identification. The service will apply updates to the following tag fields: name, parentGuid

Parameters

tag	The tag object containing the requested changes.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "Tag.name" - invalid length or pattern • BAD_DATA_FORMAT "Tag.parentGuid" - malformed GUID • DATA_CONFLICT "Tag.name" - name already in use • DATA_CONFLICT "Tag.parentGuid" - can't set parent: circular • PERMISSION_DENIED "Tag" - user doesn't own tag
EDAMNotFoundException	• "Tag.guid" - tag not found, by GUID • "Tag.parentGuid" - parent not found, by GUID

7.46.3.154 updateTagAsync()

```
AsyncResult* qevercloud::NoteStore::updateTagAsync (
             const Tag & tag,
             QString authenticationToken = QString() )
```

Asynchronous version of updateTag

7.47 qevercloud::NoteVersionId Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const NoteVersionId &other) const
- bool operator!= (const NoteVersionId &other) const

Public Attributes

- qint32 updateSequenceNum
- Timestamp updated
- Timestamp saved
- QString title

7.47.1 Detailed Description

Identifying information about previous versions of a note that are backed up within Evernote's servers. Used in the return value of the listNoteVersions call.

7.47.2 Member Function Documentation

7.47.2.1 operator"!=()

```
bool qevercloud::NoteVersionId::operator!= (
            const NoteVersionId & other ) const  [inline]
```

7.47.2.2 operator==()

```
bool qevercloud::NoteVersionId::operator== (
            const NoteVersionId & other ) const  [inline]
```

7.47.3 Member Data Documentation

7.47.3.1 saved

```
Timestamp qevercloud::NoteVersionId::saved
```

A timestamp that holds the date and time when this version of the note was backed up by Evernote's servers. This

7.47.3.2 title

```
QString qevercloud::NoteVersionId::title
```

The title of the note when this particular version was saved. (The current title of the note may differ from this value.)

7.47.3.3 updated

```
Timestamp qevercloud::NoteVersionId::updated
```

The 'updated' time that was set on the Note when it had this version of the content. This is the user-modifiable modification time on the note, so it's not reliable for guaranteeing the order of various versions. (E.g. if someone modifies the note, then changes this time manually into the past and then updates the note again.)

7.47.3.4 updateSequenceNum

```
qint32 qevercloud::NoteVersionId::updateSequenceNum
```

The update sequence number for the Note when it last had this content. This serves to uniquely identify each version of the note, since USN values are unique within an account for each update.

7.48 qevercloud::EvernoteOAuthWebView::OAuthResult Struct Reference

`#include <oauth.h>`

Public Attributes

- QString noteStoreUrl

  note store url for the user; no need to question UserStore::getNoteStoreUrl for it.
- Timestamp expires

  authenticationToken time of expiration.
- QString shardId

  usually is not used
- UserID userId

  same as PublicUserInfo::userId
- QString webApiUrlPrefix

  see PublicUserInfo::webApiUrlPrefix
- QString authenticationToken

  This is what this all was for!

7.48.1 Detailed Description

Holds data that is returned by Evernote on a succesful authentication

7.48.2 Member Data Documentation

7.48.2.1 authenticationToken

`QString qevercloud::EvernoteOAuthWebView::OAuthResult::authenticationToken`

This is what this all was for!

7.48.2.2 expires

`Timestamp qevercloud::EvernoteOAuthWebView::OAuthResult::expires`

authenticationToken time of expiration.

7.48.2.3 noteStoreUrl

```
QString qevercloud::EvernoteOAuthWebView::OAuthResult::noteStoreUrl
```

note store url for the user; no need to question UserStore::getNoteStoreUrl for it.

7.48.2.4 shardId

```
QString qevercloud::EvernoteOAuthWebView::OAuthResult::shardId
```

usually is not used

7.48.2.5 userId

```
UserID qevercloud::EvernoteOAuthWebView::OAuthResult::userId
```

same as PublicUserInfo::userId

7.48.2.6 webApiUrlPrefix

```
QString qevercloud::EvernoteOAuthWebView::OAuthResult::webApiUrlPrefix
```

see PublicUserInfo::webApiUrlPrefix

7.49 qevercloud::Optional< T > Class Template Reference

```
#include <Optional.h>
```

Public Member Functions

- Optional ()
- Optional (const Optional &o)
- template<typename X >
  Optional (const Optional< X > &o)
- Optional (const T &value)
- template<typename X >
  Optional (const X &value)
- Optional & operator= (const Optional &o)
- template<typename X >
  Optional & operator= (const Optional< X > &o)
- Optional & operator= (const T &value)
- template<typename X >
  Optional & operator= (const X &value)
- operator const T & () const
- operator T & ()
- const T & ref () const
- T & ref ()
- bool isSet () const

  Checks if value is set.
- void clear ()
- Optional & init ()
- T * operator-> ()
- const T * operator-> () const
- T value (T defaultValue=T()) const
- bool isEqual (const Optional< T > &other) const

Friends

- template<typename X >
  class Optional
- void swap (Optional &first, Optional &second)

7.49.1 Detailed Description

template<typename T>
class qevercloud::Optional< T >

Supports optional values.

Most of the fields in the Evernote API structs are optional. But C++ does not support this notion directly.

To implement the concept of optional values conventional Thrift C++ wrapper uses a special field of a struct type where each field is of type bool with the same name as a field in the struct. This bool flag indicated was the field with the same name in the outer struct assigned or not.

While this method have its advantages (obviousness and simplicity) I found it very inconvenient to work with. You have to check by hand that both values (value itself and its __isset flag) are in sync. There is no checks whatsoever against an error and such an error is too easy to make.

So for my library I created a special class that supports the optional value notion explicitly. Basically Optional class just holds a bool value that tracks the fact that a value was assigned. But this tracking is done automatically and attempts to use unissigned values throw exceptions. In this way errors are much harder to make and it's harder for them to slip through testing unnoticed too.

7.49.2 Constructor & Destructor Documentation

7.49.2.1 Optional() [1/5]

```
template<typename T>
qevercloud::Optional< T >::Optional ( )  [inline]
```

Default constructor. Default Optional is not set.

7.49.2.2 Optional() [2/5]

```
template<typename T>
qevercloud::Optional< T >::Optional (
            const Optional< T > & o )  [inline]
```

Copy constructor.

7.49.2.3 Optional() [3/5]

```
template<typename T>
template<typename X >
qevercloud::Optional< T >::Optional (
            const Optional< X > & o )  [inline]
```

Template copy constructor. Allows to be initialized with Optional of any compatible type.

7.49.2.4 Optional() [4/5]

```
template<typename T>
qevercloud::Optional< T >::Optional (
            const T & value )  [inline]
```

Initialization with a value of the type T. Note: it's implicit.

7.49.2.5 Optional() [5/5]

```
template<typename T>
template<typename X >
qevercloud::Optional< T >::Optional (
            const X & value )  [inline]
```

Template initialization with a value of any compatible type.

7.49.3 Member Function Documentation

7.49.3.1 clear()

```
template<typename T>
void qevercloud::Optional< T >::clear ( )  [inline]
```

Clears an Optional.

```
Optional<int> o(1);
o.clear();
cout << o; // exception
```

7.49.3.2 init()

```
template<typename T>
Optional& qevercloud::Optional< T >::init ( )  [inline]
```

Fast way to initialize an Optional with a default value.

It's very useful for structs.

```
struct S2 {int f;};
struct S {int f1; Optional<S2> f2};
Optional<S> o; // o.isSet() != ture

// without init() it's cumbersome to access struct fields
// it's especially true for nested Optionals
o = S(); // now o is set
o->f2 = S2(); // and o.f2 is set
o->f2->f = 1; // so at last it can be used

// with init() it's simpler
o.init()->f2.init()->f = 1;
```

Returns

reference to itself

7.49.3.3 isEqual()

```
template<typename T>
bool qevercloud::Optional< T >::isEqual (
            const Optional< T > & other ) const  [inline]
```

Two optionals are equal if they are both not set or have equal values.

I do not define `operator==` due to not easily resolvable conflicts with `operator T&`.

Note that `optional == other_optional` may throw but `optional.isEqual(other_optional)` will not.

7.49.3.4 isSet()

```
template<typename T>
bool qevercloud::Optional< T >::isSet ( ) const  [inline]
```

Checks if value is set.

Returns

true if Optional have been assigned a value and false otherwise.

Access to an unassigned ("not set") Optional lead to an exception.

7.49.3.5 operator const T &()

```
template<typename T>
qevercloud::Optional< T >::operator const T & ( ) const  [inline]
```

Implicit conversion of Optional<T> to T.

const version.

7.49.3.6 operator T &()

```
template<typename T>
qevercloud::Optional< T >::operator T& ( )  [inline]
```

Implicit conversion of Optional<T> to T.

Note: a reference is returned, not a copy.

7.49.3.7 operator->() [1/2]

```
template<typename T>
T* qevercloud::Optional< T >::operator-> ( )  [inline]
```

Two syntatic constructs come to mind to use for implementation of access to a struct's/class's field directly from Optional.

One is the dereference operator. This is what boost::optional uses. While it's conceptually nice I found it to be not a very convenient way to refer to structs, especially nested ones. So I overloaded the operator-> and use smart pointer semantics.

```
struct S1 {int f1;};
struct S2 {Optional<S1> f2;};
Optional<S2> o;

*((*o).f2).f1; // boost way, not implemented

o->f2->f1;     // QEverCloud way
```

I admit, boost::optional is much more elegant overall. It uses pointer semantics quite clearly and in an instantly understandable way. It's universal (* works for any type and not just structs). There is no need for implicit type concersions and so there is no subtleties because of it. And so on.

But then referring to struct fields is a chore. And this is the most common use case of Optionals in QEverCloud.

So I decided to use non-obvious-on-the-first-sight semantics for my Optional. IMO it's much more convenient when gotten used to.

7.49.3.8 operator->() [2/2]

```
template<typename T>
const T* qevercloud::Optional< T >::operator-> ( ) const  [inline]
```

const version.

7.49.3.9 operator=() [1/4]

```
template<typename T>
Optional& qevercloud::Optional< T >::operator= (
            const Optional< T > & o )  [inline]
```

Assignment.

7.49.3.10 operator=() [2/4]

```
template<typename T>
template<typename X >
Optional& qevercloud::Optional< T >::operator= (
            const Optional< X > & o )  [inline]
```

Template assignment with an Optional of any compatible value.

7.49.3.11 operator=() [3/4]

```
template<typename T>
Optional& qevercloud::Optional< T >::operator= (
            const T & value )  [inline]
```

Assignment with a value of the type T.

7.49.3.12 operator=() [4/4]

```
template<typename T>
template<typename X >
Optional& qevercloud::Optional< T >::operator= (
            const X & value )  [inline]
```

Template assignment with a value of any compatible type.

7.49.3.13 ref() [1/2]

```
template<typename T>
const T& qevercloud::Optional< T >::ref ( ) const  [inline]
```

Returs a reference to the holded value.

const version.

7.49.3.14 ref() [2/2]

```
template<typename T>
T& qevercloud::Optional< T >::ref ( )  [inline]
```

Returs reference to the holded value.

There are contexts in C++ where impicit type conversions can't help. For example:

```
Optional<QStringList> l;
for(auto s : l); // you will hear from your compiler
```

Explicit type conversion can be used...

```
Optional<QStringList> l;
for(auto s : static_cast<QStringList&>(l)); // ugh...
```

... but this is indeed ugly as hell.

So I implemented ref() function that returns a reference to the holded value.

```
Optional<QStringList> l;
for(auto s : l.ref()); // not ideal but OK
```

7.49.3.15 value()

```
template<typename T>
T qevercloud::Optional< T >::value (
            T defaultValue = T() ) const  [inline]
```

The function is sometimes useful to simplify checking for the value being set.

Parameters

defaultValue	The value to return if Optional is not set.

Returns

Optional value if set and defaultValue otherwise.

7.49.4 Friends And Related Function Documentation

7.49.4.1 Optional

```
template<typename T>
template<typename X >
friend class Optional  [friend]
```

7.49.4.2 swap

```
template<typename T>
void swap (
            Optional< T > & first,
            Optional< T > & second )  [friend]
```

7.50 qevercloud::PremiumInfo Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const PremiumInfo &other) const
- bool operator!= (const PremiumInfo &other) const

Public Attributes

- Timestamp currentTime
- bool premium
- bool premiumRecurring
- Optional< Timestamp > premiumExpirationDate
- bool premiumExtendable
- bool premiumPending
- bool premiumCancellationPending
- bool canPurchaseUploadAllowance
- Optional< QString > sponsoredGroupName
- Optional< SponsoredGroupRole::type > sponsoredGroupRole
- Optional< bool > premiumUpgradable

7.50.1 Detailed Description

This structure is used to provide information about a user's Premium account.

7.50.2 Member Function Documentation

7.50.2.1 operator"!=()

```
bool qevercloud::PremiumInfo::operator!= (
            const PremiumInfo & other ) const  [inline]
```

7.50.2.2 operator==()

```
bool qevercloud::PremiumInfo::operator== (
            const PremiumInfo & other ) const  [inline]
```

7.50.3 Member Data Documentation

7.50.3.1 canPurchaseUploadAllowance

```
bool qevercloud::PremiumInfo::canPurchaseUploadAllowance
```

True if the user is eligible for purchasing additional upload allowance.

7.50.3.2 currentTime

```
Timestamp qevercloud::PremiumInfo::currentTime
```

The server-side date and time when this data was generated.

7.50.3.3 premium

```
bool qevercloud::PremiumInfo::premium
```

True if the user's account is Premium.

7.50.3.4 premiumCancellationPending

```
bool qevercloud::PremiumInfo::premiumCancellationPending
```

True if the user has requested that no further charges to be made; the Premium account will remain active until it expires.

7.50.3.5 premiumExpirationDate

```
Optional< Timestamp > qevercloud::PremiumInfo::premiumExpirationDate
```

The date when the user's Premium account expires, or the date when the user's account is due for payment if it has a recurring payment method.

7.50.3.6 premiumExtendable

```
bool qevercloud::PremiumInfo::premiumExtendable
```

True if the user is eligible for purchasing Premium account extensions.

7.50.3.7 premiumPending

```
bool qevercloud::PremiumInfo::premiumPending
```

True if the user's Premium account is pending payment confirmation

7.50.3.8 premiumRecurring

```
bool qevercloud::PremiumInfo::premiumRecurring
```

True if the user's account is Premium and has a recurring payment method.

7.50.3.9 premiumUpgradable

```
Optional< bool > qevercloud::PremiumInfo::premiumUpgradable
```

True if the user is eligible for purchasing Premium account upgrade.

7.50.3.10 sponsoredGroupName

```
Optional< QString > qevercloud::PremiumInfo::sponsoredGroupName
```

The name of the sponsored group that the user is part of.

7.50.3.11 sponsoredGroupRole

```
Optional< SponsoredGroupRole::type > qevercloud::PremiumInfo::sponsoredGroupRole
```

DEPRECATED - will be removed in a future update.

7.51 qevercloud::PremiumOrderStatus Struct Reference

```
#include <types.h>
```

Public Types

- enum type {
  NONE = 0, PENDING = 1, ACTIVE = 2, FAILED = 3,
  CANCELLATION_PENDING = 4, CANCELED = 5 }

7.51.1 Detailed Description

This enumeration defines the possible states of a premium account

NONE: the user has never attempted to become a premium subscriber

PENDING: the user has requested a premium account but their charge has not been confirmed

ACTIVE: the user has been charged and their premium account is in good standing

FAILED: the system attempted to charge the was denied. Their premium privileges have been revoked. We will periodically attempt to re-validate their order.

CANCELLATION_PENDING: the user has requested that no further charges be made but the current account is still active.

CANCELED: the premium account was canceled either because of failure to pay or user cancelation. No more attempts will be made to activate the account.

7.51.2 Member Enumeration Documentation

7.51.2.1 type

`enum qevercloud::PremiumOrderStatus::type`

Enumerator

NONE	
PENDING	
ACTIVE	
FAILED	
CANCELLATION_PENDING	
CANCELED	

7.52 qevercloud::PrivilegeLevel Struct Reference

`#include <types.h>`

Public Types

- enum type {
  NORMAL = 1, PREMIUM = 3, VIP = 5, MANAGER = 7,
  SUPPORT = 8, ADMIN = 9 }

7.52.1 Detailed Description

This enumeration defines the possible permission levels for a user. Free accounts will have a level of NORMAL and paid Premium accounts will have a level of PREMIUM.

7.52.2 Member Enumeration Documentation

7.52.2.1 type

`enum qevercloud::PrivilegeLevel::type`

Enumerator

NORMAL	
PREMIUM	
VIP	
MANAGER	
SUPPORT	
ADMIN	

7.53 qevercloud::PublicUserInfo Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const PublicUserInfo &other) const
- bool operator!= (const PublicUserInfo &other) const

Public Attributes

- UserID userId
- QString shardId
- Optional< PrivilegeLevel::type > privilege
- Optional< QString > username
- Optional< QString > noteStoreUrl
- Optional< QString > webApiUrlPrefix

7.53.1 Detailed Description

This structure is used to provide publicly-available user information about a particular account.

7.53.2 Member Function Documentation

7.53.2.1 operator"!=()

```
bool qevercloud::PublicUserInfo::operator!= (
            const PublicUserInfo & other ) const  [inline]
```

7.53.2.2 operator==()

```
bool qevercloud::PublicUserInfo::operator== (
            const PublicUserInfo & other ) const  [inline]
```

7.53.3 Member Data Documentation

7.53.3.1 noteStoreUrl

```
Optional< QString > qevercloud::PublicUserInfo::noteStoreUrl
```

This field will contain the full URL that clients should use to make NoteStore requests to the server shard that contains that user's data. I.e. this is the URL that should be used to create the Thrift HTTP client transport to send messages to the NoteStore service for the account.

7.53.3.2 privilege

```
Optional< PrivilegeLevel::type > qevercloud::PublicUserInfo::privilege
```

The privilege level of the account, to determine whether this is a Premium or Free account.

7.53.3.3 shardId

```
QString qevercloud::PublicUserInfo::shardId
```

DEPRECATED - Client applications should have no need to use this field.

7.53.3.4 userId

```
UserID qevercloud::PublicUserInfo::userId
```

The unique numeric user identifier for the user account.

7.53.3.5 username

```
Optional< QString > qevercloud::PublicUserInfo::username
```

NOT DOCUMENTED

7.53.3.6 webApiUrlPrefix

```
Optional< QString > qevercloud::PublicUserInfo::webApiUrlPrefix
```

This field will contain the initial part of the URLs that should be used to make requests to Evernote's thin client "web API", which provide optimized operations for clients that aren't capable of manipulating the full contents of accounts via the full Thrift data model. Clients should concatenate the relative path for the various servlets onto the end of this string to construct the full URL, as documented on our developer web site.

7.54 qevercloud::Publishing Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const Publishing &other) const
- bool operator!= (const Publishing &other) const

Public Attributes

- Optional< QString > uri
- Optional< NoteSortOrder::type > order
- Optional< bool > ascending
- Optional< QString > publicDescription

7.54.1 Detailed Description

If a Notebook has been opened to the public, the Notebook will have a reference to one of these structures, which gives the location and optional description of the externally-visible public Notebook.

7.54.2 Member Function Documentation

7.54.2.1 operator"!=()

```
bool qevercloud::Publishing::operator!= (
            const Publishing & other ) const  [inline]
```

7.54.2.2 operator==()

```
bool qevercloud::Publishing::operator== (
            const Publishing & other ) const  [inline]
```

7.54.3 Member Data Documentation

7.54.3.1 ascending

```
Optional< bool > qevercloud::Publishing::ascending
```

If this is set to true, then the public notes will be displayed in ascending order (e.g. from oldest to newest). Otherwise, the notes will be displayed in descending order (e.g. newest to oldest).

7.54.3.2 order

```
Optional< NoteSortOrder::type > qevercloud::Publishing::order
```

When the notes are publicly displayed, they will be sorted based on the requested criteria.

7.54.3.3 publicDescription

```
Optional< QString > qevercloud::Publishing::publicDescription
```

This field may be used to provide a short description of the notebook, which may be displayed when (e.g.) the notebook is shown in a public view. Can't begin or end with a space.
Length: EDAM_PUBLISHING_DESCRIPTION_LEN_MIN - EDAM_PUBLISHING_DESCRIPTION_LEN_MAX
Regex: EDAM_PUBLISHING_DESCRIPTION_REGEX

7.54.3.4 uri

```
Optional< QString > qevercloud::Publishing::uri
```

If this field is present, then the notebook is published for mass consumption on the Internet under the provided URI, which is relative to a defined base publishing URI defined by the service. This field can only be modified via the web service GUI ... publishing cannot be modified via an offline client.
Length: EDAM_PUBLISHING_URI_LEN_MIN - EDAM_PUBLISHING_URI_LEN_MAX
Regex: EDAM_PUBLISHING_URI_REGEX

7.55 qevercloud::QueryFormat Struct Reference

```
#include <types.h>
```

Public Types

- enum type { USER = 1, SEXP = 2 }

7.55.1 Detailed Description

Every search query is specified as a sequence of characters. Currently, only the USER query format is supported.

7.55.2 Member Enumeration Documentation

7.55.2.1 type

enum qevercloud::QueryFormat::type

Enumerator

USER	
SEXP	

7.56 qevercloud::RelatedQuery Struct Reference

#include <types.h>

Public Member Functions

- bool operator== (const RelatedQuery &other) const
- bool operator!= (const RelatedQuery &other) const

Public Attributes

- Optional< QString > noteGuid
- Optional< QString > plainText
- Optional< NoteFilter > filter
- Optional< QString > referenceUri

7.56.1 Detailed Description

A description of the thing for which we are searching for related entities.

You must specify either *noteGuid* or *plainText*, but not both. *filter* and *referenceUri* are optional.

7.56.2 Member Function Documentation

7.56.2.1 operator"!=()

```
bool qevercloud::RelatedQuery::operator!= (
            const RelatedQuery & other ) const  [inline]
```

7.56.2.2 operator==()

```
bool qevercloud::RelatedQuery::operator== (
            const RelatedQuery & other ) const  [inline]
```

7.56.3 Member Data Documentation

7.56.3.1 filter

```
Optional< NoteFilter > qevercloud::RelatedQuery::filter
```

The list of criteria that will constrain the notes being considered related. Please note that some of the parameters may be ignored, such as *order* and *ascending*.

7.56.3.2 noteGuid

```
Optional< QString > qevercloud::RelatedQuery::noteGuid
```

The GUID of an existing note in your account for which related entities will be found.

7.56.3.3 plainText

```
Optional< QString > qevercloud::RelatedQuery::plainText
```

A string of plain text for which to find related entities. You should provide a text block with a number of characters between EDAM_RELATED_PLAINTEXT_LEN_MIN and EDAM_RELATED_PLAINTEXT_LEN_MAX.

7.56.3.4 referenceUri

```
Optional< QString > qevercloud::RelatedQuery::referenceUri
```

A URI string specifying a reference entity, around which "relatedness" should be based. This can be an URL pointing to a web page, for example.

7.57 qevercloud::RelatedResult Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const RelatedResult &other) const
- bool operator!= (const RelatedResult &other) const

Public Attributes

- Optional< QList< Note > > notes
- Optional< QList< Notebook > > notebooks
- Optional< QList< Tag > > tags
- Optional< QList< NotebookDescriptor > > containingNotebooks

7.57.1 Detailed Description

The result of calling findRelated(). The contents of the notes, notebooks, and tags fields will be in decreasing order of expected relevance. It is possible that fewer results than requested will be returned even if there are enough distinct entities in the account in cases where the relevance is estimated to be low.

7.57.2 Member Function Documentation

7.57.2.1 operator"!=()

```
bool qevercloud::RelatedResult::operator!= (
            const RelatedResult & other ) const  [inline]
```

7.57.2.2 operator==()

```
bool qevercloud::RelatedResult::operator== (
            const RelatedResult & other ) const  [inline]
```

7.57.3 Member Data Documentation

7.57.3.1 containingNotebooks

```
Optional< QList< NotebookDescriptor > > qevercloud::RelatedResult::containingNotebooks
```

If `includeContainingNotebooks` is set to `true` in the RelatedResultSpec, return the list of notebooks to to which the returned related notes belong. The notebooks in this list will occur once per notebook GUID and are represented as NotebookDescriptor objects.

7.57.3.2 notebooks

```
Optional< QList< Notebook > > qevercloud::RelatedResult::notebooks
```

If notebooks have been requested to be included, this will be the list of notebooks.

7.57.3.3 notes

```
Optional< QList< Note > > qevercloud::RelatedResult::notes
```

If notes have been requested to be included, this will be the list of notes.

7.57.3.4 tags

```
Optional< QList< Tag > > qevercloud::RelatedResult::tags
```

If tags have been requested to be included, this will be the list of tags.

7.58 qevercloud::RelatedResultSpec Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const RelatedResultSpec &other) const
- bool operator!= (const RelatedResultSpec &other) const

Public Attributes

- Optional< qint32 > maxNotes
- Optional< qint32 > maxNotebooks
- Optional< qint32 > maxTags
- Optional< bool > writableNotebooksOnly
- Optional< bool > includeContainingNotebooks

7.58.1 Detailed Description

A description of the thing for which the service will find related entities, via findRelated(), together with a description of what type of entities and how many you are seeking in the RelatedResult.

7.58.2 Member Function Documentation

7.58.2.1 operator"!=()

```
bool qevercloud::RelatedResultSpec::operator!= (
            const RelatedResultSpec & other ) const  [inline]
```

7.58.2.2 operator==()

```
bool qevercloud::RelatedResultSpec::operator== (
            const RelatedResultSpec & other ) const  [inline]
```

7.58.3 Member Data Documentation

7.58.3.1 includeContainingNotebooks

```
Optional< bool > qevercloud::RelatedResultSpec::includeContainingNotebooks
```

If set to `true`, return the containingNotebooks field in the RelatedResult, which will contain the list of notebooks to to which the returned related notes belong.

7.58.3.2 maxNotebooks

```
Optional< qint32 > qevercloud::RelatedResultSpec::maxNotebooks
```

Return notebooks that are related to the query, but no more than this many. Any value greater than EDAM_REL↩ ATED_MAX_NOTEBOOKS will be silently capped. If you do not set this field, then no notebooks will be returned.

7.58.3.3 maxNotes

```
Optional< qint32 > qevercloud::RelatedResultSpec::maxNotes
```

Return notes that are related to the query, but no more than this many. Any value greater than EDAM_RELATED↩ _MAX_NOTES will be silently capped. If you do not set this field, then no notes will be returned.

7.58.3.4 maxTags

`Optional< qint32 > qevercloud::RelatedResultSpec::maxTags`

Return tags that are related to the query, but no more than this many. Any value greater than EDAM_RELATED_↩ MAX_TAGS will be silently capped. If you do not set this field, then no tags will be returned.

7.58.3.5 writableNotebooksOnly

`Optional< bool > qevercloud::RelatedResultSpec::writableNotebooksOnly`

Require that all returned related notebooks are writable. The user will be able to create notes in all returned notebooks. However, individual notes returned may still belong to notebooks in which the user lacks the ability to create notes.

7.59 qevercloud::ReminderEmailConfig Struct Reference

`#include <types.h>`

Public Types

- enum type { DO_NOT_SEND = 1, SEND_DAILY_EMAIL = 2 }

7.59.1 Detailed Description

An enumeration describing the configuration state related to receiving reminder e-mails from the service. Reminder e-mails summarize notes based on their Note.attributes.reminderTime values.

DO_NOT_SEND: The user has selected to not receive reminder e-mail.

SEND_DAILY_EMAIL: The user has selected to receive reminder e-mail for those days when there is a reminder.

7.59.2 Member Enumeration Documentation

7.59.2.1 type

`enum qevercloud::ReminderEmailConfig::type`

Enumerator

DO_NOT_SEND	
SEND_DAILY_EMAIL	

7.60 qevercloud::Resource Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const Resource &other) const
- bool operator!= (const Resource &other) const

Public Attributes

- Optional< Guid > guid
- Optional< Guid > noteGuid
- Optional< Data > data
- Optional< QString > mime
- Optional< qint16 > width
- Optional< qint16 > height
- Optional< qint16 > duration
- Optional< bool > active
- Optional< Data > recognition
- Optional< ResourceAttributes > attributes
- Optional< qint32 > updateSequenceNum
- Optional< Data > alternateData

7.60.1 Detailed Description

Every media file that is embedded or attached to a note is represented through a Resource entry.

7.60.2 Member Function Documentation

7.60.2.1 operator"!=()

```
bool qevercloud::Resource::operator!= (
            const Resource & other ) const  [inline]
```

7.60.2.2 operator==()

```
bool qevercloud::Resource::operator== (
            const Resource & other ) const  [inline]
```

7.60.3 Member Data Documentation

7.60.3.1 active

`Optional< bool > qevercloud::Resource::active`

DEPRECATED: ignored.

7.60.3.2 alternateData

`Optional< Data > qevercloud::Resource::alternateData`

Some Resources may be assigned an alternate data format by the service which may be more appropriate for indexing or rendering than the original data provided by the user. In these cases, the alternate data form will be available via this Data element. If a Resource has no alternate form, this field will be unset.

7.60.3.3 attributes

`Optional< ResourceAttributes > qevercloud::Resource::attributes`

A list of the attributes for this resource.

7.60.3.4 data

`Optional< Data > qevercloud::Resource::data`

The contents of the resource. Maximum length: The data.body is limited to EDAM_RESOURCE_SIZE_MAX_FREE for free accounts and EDAM_RESOURCE_SIZE_MAX_PREMIUM for premium accounts.

7.60.3.5 duration

`Optional< qint16 > qevercloud::Resource::duration`

DEPRECATED: ignored.

7.60.3.6 guid

`Optional< Guid > qevercloud::Resource::guid`

The unique identifier of this resource. Will be set whenever a resource is retrieved from the service, but may be null when a client is creating a resource.
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.60.3.7 height

```
Optional< qint16 > qevercloud::Resource::height
```

If set, this contains the display height of this resource, in pixels.

7.60.3.8 mime

```
Optional< QString > qevercloud::Resource::mime
```

The MIME type for the embedded resource. E.g. "image/gif"
Length: EDAM_MIME_LEN_MIN - EDAM_MIME_LEN_MAX
Regex: EDAM_MIME_REGEX

7.60.3.9 noteGuid

```
Optional< Guid > qevercloud::Resource::noteGuid
```

The unique identifier of the Note that holds this Resource. Will be set whenever the resource is retrieved from the service, but may be null when a client is creating a resource.
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.60.3.10 recognition

```
Optional< Data > qevercloud::Resource::recognition
```

If set, this will hold the encoded data that provides information on search and recognition within this resource.

7.60.3.11 updateSequenceNum

```
Optional< qint32 > qevercloud::Resource::updateSequenceNum
```

A number identifying the last transaction to modify the state of this object. The USN values are sequential within an account, and can be used to compare the order of modifications within the service.

7.60.3.12 width

```
Optional< qint16 > qevercloud::Resource::width
```

If set, this contains the display width of this resource, in pixels.

7.61 qevercloud::ResourceAttributes Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const ResourceAttributes &other) const
- bool operator!= (const ResourceAttributes &other) const

Public Attributes

- Optional< QString > sourceURL
- Optional< Timestamp > timestamp
- Optional< double > latitude
- Optional< double > longitude
- Optional< double > altitude
- Optional< QString > cameraMake
- Optional< QString > cameraModel
- Optional< bool > clientWillIndex
- Optional< QString > recoType
- Optional< QString > fileName
- Optional< bool > attachment
- Optional< LazyMap > applicationData

7.61.1 Detailed Description

Structure holding the optional attributes of a Resource

7.61.2 Member Function Documentation

7.61.2.1 operator"!=()

```
bool qevercloud::ResourceAttributes::operator!= (
            const ResourceAttributes & other ) const  [inline]
```

7.61.2.2 operator==()

```
bool qevercloud::ResourceAttributes::operator== (
            const ResourceAttributes & other ) const  [inline]
```

7.61.3 Member Data Documentation

7.61.3.1 altitude

```
Optional< double > qevercloud::ResourceAttributes::altitude
```

the altitude where the resource was captured

7.61.3.2 applicationData

```
Optional< LazyMap > qevercloud::ResourceAttributes::applicationData
```

Provides a location for applications to store a relatively small (4kb) blob of data associated with a Resource that is not visible to the user and that is opaque to the Evernote service. A single application may use at most one entry in this map, using its API consumer key as the map key. See the documentation for LazyMap for a description of when the actual map values are returned by the service.

To safely add or modify your application's entry in the map, use NoteStore.setResourceApplicationDataEntry. To safely remove your application's entry from the map, use NoteStore.unsetResourceApplicationDataEntry.

Minimum length of a name (key): EDAM_APPLICATIONDATA_NAME_LEN_MIN
Sum max size of key and value: EDAM_APPLICATIONDATA_ENTRY_LEN_MAX
Syntax regex for name (key): EDAM_APPLICATIONDATA_NAME_REGEX

7.61.3.3 attachment

```
Optional< bool > qevercloud::ResourceAttributes::attachment
```

this will be true if the resource should be displayed as an attachment, or false if the resource should be displayed inline (if possible).

7.61.3.4 cameraMake

```
Optional< QString > qevercloud::ResourceAttributes::cameraMake
```

information about an image's camera, e.g. as embedded in the image's EXIF data
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.61.3.5 cameraModel

```
Optional< QString > qevercloud::ResourceAttributes::cameraModel
```

information about an image's camera, e.g. as embedded in the image's EXIF data
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.61.3.6 clientWillIndex

```
Optional< bool > qevercloud::ResourceAttributes::clientWillIndex
```

if true, then the original client that submitted the resource plans to submit the recognition index for this resource at a later time.

7.61.3.7 fileName

```
Optional< QString > qevercloud::ResourceAttributes::fileName
```

if the resource came from a source that provided an explicit file name, the original name will be stored here. Many resources come from unnamed sources, so this will not always be set.

7.61.3.8 latitude

```
Optional< double > qevercloud::ResourceAttributes::latitude
```

the latitude where the resource was captured

7.61.3.9 longitude

```
Optional< double > qevercloud::ResourceAttributes::longitude
```

the longitude where the resource was captured

7.61.3.10 recoType

```
Optional< QString > qevercloud::ResourceAttributes::recoType
```

DEPRECATED - this field is no longer set by the service, so should be ignored.

7.61.3.11 sourceURL

```
Optional< QString > qevercloud::ResourceAttributes::sourceURL
```

the original location where the resource was hosted
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.61.3.12 timestamp

```
Optional< Timestamp > qevercloud::ResourceAttributes::timestamp
```

the date and time that is associated with this resource (e.g. the time embedded in an image from a digital camera with a clock)

7.62 qevercloud::SavedSearch Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const SavedSearch &other) const
- bool operator!= (const SavedSearch &other) const

Public Attributes

- Optional< Guid > guid
- Optional< QString > name
- Optional< QString > query
- Optional< QueryFormat::type > format
- Optional< qint32 > updateSequenceNum
- Optional< SavedSearchScope > scope

7.62.1 Detailed Description

A named search associated with the account that can be quickly re-used.

7.62.2 Member Function Documentation

7.62.2.1 operator"!=()

```
bool qevercloud::SavedSearch::operator!= (
            const SavedSearch & other ) const  [inline]
```

7.62.2.2 operator==()

```
bool qevercloud::SavedSearch::operator== (
            const SavedSearch & other ) const  [inline]
```

7.62.3 Member Data Documentation

7.62.3.1 format

```
Optional< QueryFormat::type > qevercloud::SavedSearch::format
```

The format of the query string, to determine how to parse and process it.

7.62.3.2 guid

`Optional< Guid > qevercloud::SavedSearch::guid`

The unique identifier of this search. Will be set by the service, so may be omitted by the client when creating.
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.62.3.3 name

`Optional< QString > qevercloud::SavedSearch::name`

The name of the saved search to display in the GUI. The account may only contain one search with a given name (case-insensitive compare). Can't begin or end with a space.
Length: EDAM_SAVED_SEARCH_NAME_LEN_MIN - EDAM_SAVED_SEARCH_NAME_LEN_MAX
Regex: EDAM_SAVED_SEARCH_NAME_REGEX

7.62.3.4 query

`Optional< QString > qevercloud::SavedSearch::query`

A string expressing the search to be performed.
Length: EDAM_SAVED_SEARCH_QUERY_LEN_MIN - EDAM_SAVED_SEARCH_QUERY_LEN_MAX

7.62.3.5 scope

`Optional< SavedSearchScope > qevercloud::SavedSearch::scope`

Specifies the set of notes that should be included in the search, if possible.

Clients are expected to search as much of the desired scope as possible, with the understanding that a given client may not be able to cover the full specified scope. For example, when executing a search that includes notes in both the owner's account and business notebooks, a mobile client may choose to only search within the user's account because it is not capable of searching both scopes simultaneously. When a search across multiple scopes is not possible, a client may choose which scope to search based on the current application context. If a client cannot search any of the desired scopes, it should refuse to execute the search.

7.62.3.6 updateSequenceNum

`Optional< qint32 > qevercloud::SavedSearch::updateSequenceNum`

A number identifying the last transaction to modify the state of this object. The USN values are sequential within an account, and can be used to compare the order of modifications within the service.

7.63 qevercloud::SavedSearchScope Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const SavedSearchScope &other) const
- bool operator!= (const SavedSearchScope &other) const

Public Attributes

- Optional< bool > includeAccount
- Optional< bool > includePersonalLinkedNotebooks
- Optional< bool > includeBusinessLinkedNotebooks

7.63.1 Detailed Description

A structure defining the scope of a SavedSearch.

7.63.2 Member Function Documentation

7.63.2.1 operator"!=()

```
bool qevercloud::SavedSearchScope::operator!= (
            const SavedSearchScope & other ) const  [inline]
```

7.63.2.2 operator==()

```
bool qevercloud::SavedSearchScope::operator== (
            const SavedSearchScope & other ) const  [inline]
```

7.63.3 Member Data Documentation

7.63.3.1 includeAccount

```
Optional< bool > qevercloud::SavedSearchScope::includeAccount
```

The search should include notes from the account that contains the SavedSearch.

7.63.3.2 includeBusinessLinkedNotebooks

```
Optional< bool > qevercloud::SavedSearchScope::includeBusinessLinkedNotebooks
```

The search should include notes within those shared notebooks that the user has joined that are business notebooks in the business that the user is currently a member of.

7.63.3.3 includePersonalLinkedNotebooks

```
Optional< bool > qevercloud::SavedSearchScope::includePersonalLinkedNotebooks
```

The search should include notes within those shared notebooks that the user has joined that are NOT business notebooks.

7.64 qevercloud::SharedNotebook Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const SharedNotebook &other) const
- bool operator!= (const SharedNotebook &other) const

Public Attributes

- Optional< qint64 > id
- Optional< qint32 > userId
- Optional< QString > notebookGuid
- Optional< QString > email
- Optional< bool > notebookModifiable
- Optional< bool > requireLogin
- Optional< Timestamp > serviceCreated
- Optional< Timestamp > serviceUpdated
- Optional< QString > shareKey
- Optional< QString > username
- Optional< SharedNotebookPrivilegeLevel::type > privilege
- Optional< bool > allowPreview
- Optional< SharedNotebookRecipientSettings > recipientSettings

7.64.1 Detailed Description

Shared notebooks represent a relationship between a notebook and a single share invitation recipient.

7.64.2 Member Function Documentation

7.64.2.1 operator"!=()

```
bool qevercloud::SharedNotebook::operator!= (
            const SharedNotebook & other ) const  [inline]
```

7.64.2.2 operator==()

```
bool qevercloud::SharedNotebook::operator== (
            const SharedNotebook & other ) const  [inline]
```

7.64.3 Member Data Documentation

7.64.3.1 allowPreview

```
Optional< bool > qevercloud::SharedNotebook::allowPreview
```

Whether or not to grant "READ_NOTEBOOK" privilege without an authentication token, for authenticateToShared↩ Notebook(...). With the change to "requireLogin" always being true for new shared notebooks, this is the only way to access a shared notebook without an authorization token. This setting expires after the first use of authenticate↩ ToSharedNotebook(...) with a valid authentication token.

7.64.3.2 email

```
Optional< QString > qevercloud::SharedNotebook::email
```

the email address of the recipient - used by the notebook owner to identify who they shared with.

7.64.3.3 id

```
Optional< qint64 > qevercloud::SharedNotebook::id
```

the primary identifier of the share

7.64.3.4 notebookGuid

```
Optional< QString > qevercloud::SharedNotebook::notebookGuid
```

the GUID of the associated notebook shared.

7.64.3.5 notebookModifiable

```
Optional< bool > qevercloud::SharedNotebook::notebookModifiable
```

(DEPRECATED) a flag indicating the share is read/write -otherwise it's read only. This field is deprecated in favor of the new "privilege" field.

7.64.3.6 privilege

```
Optional< SharedNotebookPrivilegeLevel::type > qevercloud::SharedNotebook::privilege
```

The privilege level granted to the notebook, activity stream, and invitations. See the corresponding enumeration for details.

7.64.3.7 recipientSettings

```
Optional< SharedNotebookRecipientSettings > qevercloud::SharedNotebook::recipientSettings
```

Settings intended for use only by the recipient of this shared notebook. You should skip setting this value unless you want to change the value contained inside the structure, and only if you are the recipient.

7.64.3.8 requireLogin

```
Optional< bool > qevercloud::SharedNotebook::requireLogin
```

(DEPRECATED) indicates that a user must login to access the share. This field is deprecated and will be "true" for all new shared notebooks. It is read-only and ignored when creating or modifying a shared notebook, except that a shared notebook can be modified to require login. See "allowPreview" for information on privileges and shared notebooks.

7.64.3.9 serviceCreated

```
Optional< Timestamp > qevercloud::SharedNotebook::serviceCreated
```

the date the owner first created the share with the specific email address

7.64.3.10 serviceUpdated

```
Optional< Timestamp > qevercloud::SharedNotebook::serviceUpdated
```

the date the shared notebook was last updated on the service. This will be updated when authenticateToShared↩ Notebook is called the first time with a shared notebook requiring login (i.e. when the username is bound to that shared notebook).

7.64.3.11 shareKey

```
Optional< QString > qevercloud::SharedNotebook::shareKey
```

NOT DOCUMENTED

7.64.3.12 userId

```
Optional< qint32 > qevercloud::SharedNotebook::userId
```

the user id of the owner of the notebook

7.64.3.13 username

```
Optional< QString > qevercloud::SharedNotebook::username
```

the username of the user who can access this share. Once it's assigned it cannot be changed.

7.65 qevercloud::SharedNotebookInstanceRestrictions Struct Reference

```
#include <types.h>
```

Public Types

- enum type { ONLY_JOINED_OR_PREVIEW = 1, NO_SHARED_NOTEBOOKS = 2 }

7.65.1 Detailed Description

An enumeration describing restrictions on the domain of shared notebook instances that are valid for a given operation, as used, for example, in NotebookRestrictions.

ONLY_JOINED_OR_PREVIEW: The domain consists of shared notebooks that "belong" to the recipient or still available for preview by any recipient. Shared notebooks that the recipient has joined (the username has already been assigned to our user) are in the domain. Additionally, shared notebooks that allow preview and have not yet been joined are in the domain.

NO_SHARED_NOTEBOOKS: No shared notebooks are applicable to the operation.

7.65.2 Member Enumeration Documentation

7.65.2.1 type

```
enum qevercloud::SharedNotebookInstanceRestrictions::type
```

Enumerator

ONLY_JOINED_OR_PREVIEW	
NO_SHARED_NOTEBOOKS	

7.66 qevercloud::SharedNotebookPrivilegeLevel Struct Reference

`#include <types.h>`

Public Types

- enum type {
  READ_NOTEBOOK = 0, MODIFY_NOTEBOOK_PLUS_ACTIVITY = 1, READ_NOTEBOOK_PLUS_ACTI↩
  VITY = 2, GROUP = 3,
  FULL_ACCESS = 4, BUSINESS_FULL_ACCESS = 5 }

7.66.1 Detailed Description

Privilege levels for accessing shared notebooks.

READ_NOTEBOOK: Recipient is able to read the contents of the shared notebook but does to have access to information about other recipients of the notebook or the activity stream information.

MODIFY_NOTEBOOK_PLUS_ACTIVITY: Recipient has rights to read and modify the contents of the shared notebook, including the right to move notes to the trash and to create notes in the notebook. The recipient can also access information about other recipients and the activity stream.

READ_NOTEBOOK_PLUS_ACTIVITY: Recipient has READ_NOTEBOOK rights and can also access information about other recipients and the activity stream.

GROUP: If the user belongs to a group, such as a Business, that has a defined privilege level, use the privilege level of the group as the privilege for the individual.

FULL_ACCESS: Recipient has full rights to the shared notebook and recipient lists, including privilege to revoke and create invitations and to change privilege levels on invitations for individuals. This privilege level is primarily intended for use by individual shares.

BUSINESS_FULL_ACCESS: Intended for use with Business Notebooks, a BUSINESS_FULL_ACCESS level is FULL_ACCESS with the additional rights to change how the notebook will appear in the business library, including the rights to publish and unpublish the notebook from the library.

7.66.2 Member Enumeration Documentation

7.66.2.1 type

`enum qevercloud::SharedNotebookPrivilegeLevel::type`

Enumerator

READ_NOTEBOOK	
MODIFY_NOTEBOOK_PLUS_ACTIVITY	
READ_NOTEBOOK_PLUS_ACTIVITY	
GROUP	
FULL_ACCESS	
BUSINESS_FULL_ACCESS	

7.67 qevercloud::SharedNotebookRecipientSettings Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const SharedNotebookRecipientSettings &other) const
- bool operator!= (const SharedNotebookRecipientSettings &other) const

Public Attributes

- Optional< bool > reminderNotifyEmail
- Optional< bool > reminderNotifyInApp

7.67.1 Detailed Description

Settings meant for the recipient of a shared notebook, such as for indicating which types of notifications the recipient wishes for reminders, etc.

The reminderNotifyEmail and reminderNotifyInApp fields have a 3-state read value but a 2-state write value. On read, it is possible to observe "unset", true, or false. The initial state is "unset". When you choose to set a value, you may set it to either true or false, but you cannot unset the value. Once one of these members has a true/false value, it will always have a true/false value.

7.67.2 Member Function Documentation

7.67.2.1 operator"!=()

```
bool qevercloud::SharedNotebookRecipientSettings::operator!= (
            const SharedNotebookRecipientSettings & other ) const  [inline]
```

7.67.2.2 operator==()

```
bool qevercloud::SharedNotebookRecipientSettings::operator== (
            const SharedNotebookRecipientSettings & other ) const  [inline]
```

7.67.3 Member Data Documentation

7.67.3.1 reminderNotifyEmail

`Optional< bool > qevercloud::SharedNotebookRecipientSettings::reminderNotifyEmail`

Indicates that the user wishes to receive daily e-mail notifications for reminders associated with the shared notebook. This may be true only for business notebooks that belong to the business of which the user is a member. You may only set this value on a notebook in your business.

7.67.3.2 reminderNotifyInApp

`Optional< bool > qevercloud::SharedNotebookRecipientSettings::reminderNotifyInApp`

Indicates that the user wishes to receive notifications for reminders by applications that support providing such notifications. The exact nature of the notification is defined by the individual applications.

7.68 qevercloud::SponsoredGroupRole Struct Reference

`#include <types.h>`

Public Types

- enum type { GROUP_MEMBER = 1, GROUP_ADMIN = 2, GROUP_OWNER = 3 }

7.68.1 Detailed Description

Enumeration of the roles that a User can have within a sponsored group.

GROUP_MEMBER: The user is a member of the group with no special privileges.

GROUP_ADMIN: The user is an administrator within the group.

GROUP_OWNER: The user is the owner of the group.

7.68.2 Member Enumeration Documentation

7.68.2.1 type

`enum qevercloud::SponsoredGroupRole::type`

Enumerator

GROUP_MEMBER	
GROUP_ADMIN	
GROUP_OWNER	

7.69 qevercloud::SyncChunk Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const SyncChunk &other) const
- bool operator!= (const SyncChunk &other) const

Public Attributes

- Timestamp currentTime
- Optional< qint32 > chunkHighUSN
- qint32 updateCount
- Optional< QList< Note > > notes
- Optional< QList< Notebook > > notebooks
- Optional< QList< Tag > > tags
- Optional< QList< SavedSearch > > searches
- Optional< QList< Resource > > resources
- Optional< QList< Guid > > expungedNotes
- Optional< QList< Guid > > expungedNotebooks
- Optional< QList< Guid > > expungedTags
- Optional< QList< Guid > > expungedSearches
- Optional< QList< LinkedNotebook > > linkedNotebooks
- Optional< QList< Guid > > expungedLinkedNotebooks

7.69.1 Detailed Description

This structure is given out by the NoteStore when a client asks to receive the current state of an account. The client asks for the server's state one chunk at a time in order to allow clients to retrieve the state of a large account without needing to transfer the entire account in a single message.

The server always gives SyncChunks using an ascending series of Update Sequence Numbers (USNs).

7.69.2 Member Function Documentation

7.69.2.1 operator"!=()

```
bool qevercloud::SyncChunk::operator!= (
            const SyncChunk & other ) const  [inline]
```

7.69.2.2 operator==()

```
bool qevercloud::SyncChunk::operator== (
            const SyncChunk & other ) const  [inline]
```

7.69.3 Member Data Documentation

7.69.3.1 chunkHighUSN

```
Optional< qint32 > qevercloud::SyncChunk::chunkHighUSN
```

The highest USN for any of the data objects represented in this sync chunk. If there are no objects in the chunk, this will not be set.

7.69.3.2 currentTime

```
Timestamp qevercloud::SyncChunk::currentTime
```

The server's current date and time.

7.69.3.3 expungedLinkedNotebooks

```
Optional< QList< Guid > > qevercloud::SyncChunk::expungedLinkedNotebooks
```

If present, the GUIDs of all of the LinkedNotebooks that were permanently expunged in this chunk.

7.69.3.4 expungedNotebooks

```
Optional< QList< Guid > > qevercloud::SyncChunk::expungedNotebooks
```

If present, the GUIDs of all of the notebooks that were permanently expunged in this chunk. When a notebook is expunged, this implies that all of its child notes (and their resources) were also expunged.

7.69.3.5 expungedNotes

```
Optional< QList< Guid > > qevercloud::SyncChunk::expungedNotes
```

If present, the GUIDs of all of the notes that were permanently expunged in this chunk.

7.69.3.6 expungedSearches

```
Optional< QList< Guid > > qevercloud::SyncChunk::expungedSearches
```

If present, the GUIDs of all of the saved searches that were permanently expunged in this chunk.

7.69.3.7 expungedTags

```
Optional< QList< Guid > > qevercloud::SyncChunk::expungedTags
```

If present, the GUIDs of all of the tags that were permanently expunged in this chunk.

7.69.3.8 linkedNotebooks

```
Optional< QList< LinkedNotebook > > qevercloud::SyncChunk::linkedNotebooks
```

If present, this is a list of non-expunged LinkedNotebooks that have a USN in this chunk.

7.69.3.9 notebooks

```
Optional< QList< Notebook > > qevercloud::SyncChunk::notebooks
```

If present, this is a list of non-expunged notebooks that have a USN in this chunk. This will include notebooks that are "deleted" but not expunged (i.e. in the trash).

7.69.3.10 notes

```
Optional< QList< Note > > qevercloud::SyncChunk::notes
```

If present, this is a list of non-expunged notes that have a USN in this chunk. This will include notes that are "deleted" but not expunged (i.e. in the trash). The notes will include their list of tags and resources, but the note content, resource content, resource recognition data and resource alternate data will not be supplied.

7.69.3.11 resources

```
Optional< QList< Resource > > qevercloud::SyncChunk::resources
```

If present, this is a list of the non-expunged resources that have a USN in this chunk. This will include the metadata for each resource, but not its binary contents or recognition data, which must be retrieved separately.

7.69.3.12 searches

```
Optional< QList< SavedSearch > > qevercloud::SyncChunk::searches
```

If present, this is a list of non-expunged searches that have a USN in this chunk.

7.69.3.13 tags

```
Optional< QList< Tag > > qevercloud::SyncChunk::tags
```

If present, this is a list of the non-expunged tags that have a USN in this chunk.

7.69.3.14 updateCount

```
qint32 qevercloud::SyncChunk::updateCount
```

The total number of updates that have been performed in the service for this account. This is equal to the highest USN within the account at the point that this SyncChunk was generated. If updateCount and chunkHighUSN are identical, that means that this is the last chunk in the account ... there is no more recent information.

7.70 qevercloud::SyncChunkFilter Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const SyncChunkFilter &other) const
- bool operator!= (const SyncChunkFilter &other) const

Public Attributes

- Optional< bool > includeNotes
- Optional< bool > includeNoteResources
- Optional< bool > includeNoteAttributes
- Optional< bool > includeNotebooks
- Optional< bool > includeTags
- Optional< bool > includeSearches
- Optional< bool > includeResources
- Optional< bool > includeLinkedNotebooks
- Optional< bool > includeExpunged
- Optional< bool > includeNoteApplicationDataFullMap
- Optional< bool > includeResourceApplicationDataFullMap
- Optional< bool > includeNoteResourceApplicationDataFullMap
- Optional< QString > requireNoteContentClass

7.70.1 Detailed Description

This structure is used with the 'getFilteredSyncChunk' call to provide fine-grained control over the data that's returned when a client needs to synchronize with the service. Each flag in this structure specifies whether to include one class of data in the results of that call.

7.70.2 Member Function Documentation

7.70.2.1 operator"!=()

```
bool qevercloud::SyncChunkFilter::operator!= (
            const SyncChunkFilter & other ) const  [inline]
```

7.70.2.2 operator==()

```
bool qevercloud::SyncChunkFilter::operator== (
            const SyncChunkFilter & other ) const  [inline]
```

7.70.3 Member Data Documentation

7.70.3.1 includeExpunged

```
Optional< bool > qevercloud::SyncChunkFilter::includeExpunged
```

If true, then the server will include the 'expunged' data for any type of included data. For example, if 'includeTags' and 'includeExpunged' are both true, then the SyncChunks.expungedTags field will be set with the GUIDs of tags that have been expunged from the server.

7.70.3.2 includeLinkedNotebooks

```
Optional< bool > qevercloud::SyncChunkFilter::includeLinkedNotebooks
```

If true, then the server will include the SyncChunks.linkedNotebooks field.

7.70.3.3 includeNoteApplicationDataFullMap

```
Optional< bool > qevercloud::SyncChunkFilter::includeNoteApplicationDataFullMap
```

If true, then the values for the applicationData map will be filled in, assuming notes and note attributes are being returned. Otherwise, only the keysOnly field will be filled in.

7.70.3.4 includeNoteAttributes

```
Optional< bool > qevercloud::SyncChunkFilter::includeNoteAttributes
```

If true, then the server will include the 'attributes' field on all of the Notes that are in SyncChunks.notes. If 'include↩ Notes' is false, then this will have no effect.

7.70.3.5 includeNotebooks

```
Optional< bool > qevercloud::SyncChunkFilter::includeNotebooks
```

If true, then the server will include the SyncChunks.notebooks field

7.70.3.6 includeNoteResourceApplicationDataFullMap

```
Optional< bool > qevercloud::SyncChunkFilter::includeNoteResourceApplicationDataFullMap
```

If true, then the fullMap values for the applicationData map will be filled in for resources found inside of notes, assuming resources are being returned in notes (includeNoteResources is true). Otherwise, only the keysOnly field will be filled in.

7.70.3.7 includeNoteResources

```
Optional< bool > qevercloud::SyncChunkFilter::includeNoteResources
```

If true, then the server will include the 'resources' field on all of the Notes that are in SyncChunk.notes. If 'include↩ Notes' is false, then this will have no effect.

7.70.3.8 includeNotes

```
Optional< bool > qevercloud::SyncChunkFilter::includeNotes
```

If true, then the server will include the SyncChunks.notes field

7.70.3.9 includeResourceApplicationDataFullMap

```
Optional< bool > qevercloud::SyncChunkFilter::includeResourceApplicationDataFullMap
```

If true, then the fullMap values for the applicationData map will be filled in, assuming resources and resource attributes are being returned (includeResources is true). Otherwise, only the keysOnly field will be filled in.

7.70.3.10 includeResources

```
Optional< bool > qevercloud::SyncChunkFilter::includeResources
```

If true, then the server will include the SyncChunks.resources field. Since the Resources are also provided with their Note (in the Notes.resources list), this is primarily useful for clients that want to watch for changes to individual Resources due to recognition data being added.

7.70.3.11 includeSearches

```
Optional< bool > qevercloud::SyncChunkFilter::includeSearches
```

If true, then the server will include the SyncChunks.searches field

7.70.3.12 includeTags

```
Optional< bool > qevercloud::SyncChunkFilter::includeTags
```

If true, then the server will include the SyncChunks.tags field

7.70.3.13 requireNoteContentClass

```
Optional< QString > qevercloud::SyncChunkFilter::requireNoteContentClass
```

If set, then only send notes whose content class matches this value. The value can be a literal match or, if the last character is an asterisk, a prefix match.

7.71 qevercloud::SyncState Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const SyncState &other) const
- bool operator!= (const SyncState &other) const

Public Attributes

- Timestamp currentTime
- Timestamp fullSyncBefore
- qint32 updateCount
- Optional< qint64 > uploaded

7.71.1 Detailed Description

This structure encapsulates the information about the state of the user's account for the purpose of "state based" synchronization.

7.71.2 Member Function Documentation

7.71.2.1 operator"!=()

```
bool qevercloud::SyncState::operator!= (
            const SyncState & other ) const  [inline]
```

7.71.2.2 operator==()

```
bool qevercloud::SyncState::operator== (
            const SyncState & other ) const  [inline]
```

7.71.3 Member Data Documentation

7.71.3.1 currentTime

```
Timestamp qevercloud::SyncState::currentTime
```

The server's current date and time.

7.71.3.2 fullSyncBefore

```
Timestamp qevercloud::SyncState::fullSyncBefore
```

The cutoff date and time for client caches to be updated via incremental synchronization. Any clients that were last synched with the server before this date/time must do a full resync of all objects. This cutoff point will change over time as archival data is deleted or special circumstances on the service require resynchronization.

7.71.3.3 updateCount

```
qint32 qevercloud::SyncState::updateCount
```

Indicates the total number of transactions that have been committed within the account. This reflects (for example) the number of discrete additions or modifications that have been made to the data in this account (tags, notes, resources, etc.). This number is the "high water mark" for Update Sequence Numbers (USN) within the account.

7.71.3.4 uploaded

```
Optional< qint64 > qevercloud::SyncState::uploaded
```

The total number of bytes that have been uploaded to this account in the current monthly period. This can be compared against Accounting.uploadLimit (from the UserStore) to determine how close the user is to their monthly upload limit. This value may not be present if the SyncState has been retrieved by a caller that only has read access to the account.

7.72 qevercloud::Tag Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const Tag &other) const
- bool operator!= (const Tag &other) const

Public Attributes

- Optional< Guid > guid
- Optional< QString > name
- Optional< Guid > parentGuid
- Optional< qint32 > updateSequenceNum

7.72.1 Detailed Description

A tag within a user's account is a unique name which may be organized a simple hierarchy.

7.72.2 Member Function Documentation

7.72.2.1 operator"!=()

```
bool qevercloud::Tag::operator!= (
            const Tag & other ) const  [inline]
```

7.72.2.2 operator==()

```
bool qevercloud::Tag::operator== (
            const Tag & other ) const  [inline]
```

7.72.3 Member Data Documentation

7.72.3.1 guid

```
Optional< Guid > qevercloud::Tag::guid
```

The unique identifier of this tag. Will be set by the service, so may be omitted by the client when creating the Tag.
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.72.3.2 name

```
Optional< QString > qevercloud::Tag::name
```

A sequence of characters representing the tag's identifier. Case is preserved, but is ignored for comparisons. This means that an account may only have one tag with a given name, via case-insensitive comparison, so an account may not have both "food" and "Food" tags. May not contain a comma (','), and may not begin or end with a space.
Length: EDAM_TAG_NAME_LEN_MIN - EDAM_TAG_NAME_LEN_MAX
Regex: EDAM_TAG_NAME_REGEX

7.72.3.3 parentGuid

```
Optional< Guid > qevercloud::Tag::parentGuid
```

If this is set, then this is the GUID of the tag that holds this tag within the tag organizational hierarchy. If this is not set, then the tag has no parent and it is a "top level" tag. Cycles are not allowed (e.g. a->parent->parent == a) and will be rejected by the service.
Length: EDAM_GUID_LEN_MIN - EDAM_GUID_LEN_MAX
Regex: EDAM_GUID_REGEX

7.72.3.4 updateSequenceNum

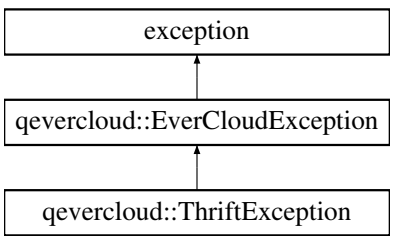
```
Optional< qint32 > qevercloud::Tag::updateSequenceNum
```

A number identifying the last transaction to modify the state of this object. The USN values are sequential within an account, and can be used to compare the order of modifications within the service.

7.73 qevercloud::ThriftException Class Reference

```
#include <exceptions.h>
```

Inheritance diagram for qevercloud::ThriftException:



Classes

- struct Type

Public Member Functions

- ThriftException ()
- ThriftException (Type::type type)
- ThriftException (Type::type type, QString message)
- Type::type type () const
- const char * what () const Q_DECL_OVERRIDE throw ()
- virtual QSharedPointer< EverCloudExceptionData > exceptionData () const Q_DECL_OVERRIDE

Protected Attributes

- Type::type m_type

7.73.1 Detailed Description

Errors of the Thrift protocol level. It could be wrongly formatted parameters or return values for example.

7.73.2 Constructor & Destructor Documentation

7.73.2.1 ThriftException() [1/3]

```
qevercloud::ThriftException::ThriftException ( )
```

7.73.2.2 ThriftException() [2/3]

```
qevercloud::ThriftException::ThriftException (
            Type::type type )
```

7.73.2.3 ThriftException() [3/3]

```
qevercloud::ThriftException::ThriftException (
            Type::type type,
            QString message )
```

7.73.3 Member Function Documentation

7.73.3.1 exceptionData()

```
QSharedPointer< EverCloudExceptionData > qevercloud::ThriftException::exceptionData ( ) const
[inline], [virtual]
```

Reimplemented from qevercloud::EverCloudException.

7.73.3.2 type()

```
Type::type qevercloud::ThriftException::type ( ) const
```

7.73.3.3 what()

```
const char* qevercloud::ThriftException::what ( ) const throw )
```

7.73.4 Member Data Documentation

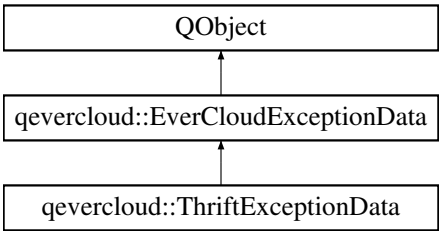
7.73.4.1 m_type

```
Type::type qevercloud::ThriftException::m_type  [protected]
```

7.74 qevercloud::ThriftExceptionData Class Reference

```
#include <exceptions.h>
```

Inheritance diagram for qevercloud::ThriftExceptionData:



Public Member Functions

- ThriftExceptionData (QString error, ThriftException::Type::type type)
- virtual void throwException () const Q_DECL_OVERRIDE

Protected Attributes

- ThriftException::Type::type m_type

Additional Inherited Members

7.74.1 Detailed Description

Asynchronous API conterpart of ThriftException. See EverCloudExceptionData for more details.

7.74.2 Constructor & Destructor Documentation

7.74.2.1 ThriftExceptionData()

```
qevercloud::ThriftExceptionData::ThriftExceptionData (
            QString error,
            ThriftException::Type::type type )  [explicit]
```

7.74.3 Member Function Documentation

7.74.3.1 throwException()

```
virtual void qevercloud::ThriftExceptionData::throwException ( ) const  [virtual]
```

If you want to throw an exception that corresponds to a recrived EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EverCloudExceptionData.

7.74.4 Member Data Documentation

7.74.4.1 m_type

```
ThriftException::Type::type qevercloud::ThriftExceptionData::m_type  [protected]
```

7.75 qevercloud::Thumbnail Class Reference

The class is for downloading thumbnails for notes and resources from Evernote servers.

`#include <thumbnail.h>`

Classes

- struct ImageType

Public Member Functions

- Thumbnail ()

  Default constructor.
- Thumbnail (QString host, QString shardId, QString authenticationToken, int size=300, ImageType::type imageType=ImageType::PNG)

  Constructs Thumbnail.
- virtual ~Thumbnail ()
- Thumbnail & setHost (QString host)
- Thumbnail & setShardId (QString shardId)
- Thumbnail & setAuthenticationToken (QString authenticationToken)
- Thumbnail & setSize (int size)
- Thumbnail & setImageType (ImageType::type imageType)
- QByteArray download (Guid guid, bool isPublic=false, bool isResourceGuid=false)

  Downloads the thumbnail for a resource or a note.
- AsyncResult * downloadAsync (Guid guid, bool isPublic=false, bool isResourceGuid=false)
- QPair< QNetworkRequest, QByteArray > createPostRequest (qevercloud::Guid guid, bool isPublic=false, bool isResourceGuid=false)

  Prepares a POST request for a thumbnail download.

7.75.1 Detailed Description

The class is for downloading thumbnails for notes and resources from Evernote servers.

These thumbnails are not available with general EDAM Thrift interface as explained in the `documentation.`

Usage:

```
Thumbnail thumb("www.evernote.com", sharId, authenticationToken);
QByteArray pngImage = thumb.download(noteGuid);
```

By defualt 300x300 PNG images are requested.

7.75.2 Constructor & Destructor Documentation

7.75.2.1 Thumbnail() [1/2]

```
qevercloud::Thumbnail::Thumbnail ( )
```

Default constructor.

host, shardId, authenticationToken have to be specified before calling download or createPostRequest

7.75.2.2 Thumbnail() [2/2]

```
qevercloud::Thumbnail::Thumbnail (
            QString host,
            QString shardId,
            QString authenticationToken,
            int size = 300,
            ImageType::type imageType = ImageType::PNG )
```

Constructs Thumbnail.

Parameters

host	www.evernote.com or sandbox.evernote.com
shardId	You can get the value from UserStore service or as a result of an authentication.
authenticationToken	For working private notes/resources you must supply a valid authentication token. For public resources the value specified is not used.
size	The size of the thumbnail. Evernote supports values from from 1 to 300. By defualt 300 is used.
imageType	Thumbnail image type. See ImageType. By default PNG is used.

7.75.2.3 ~Thumbnail()

```
virtual qevercloud::Thumbnail::~Thumbnail ( )  [virtual]
```

7.75.3 Member Function Documentation

7.75.3.1 createPostRequest()

```
QPair<QNetworkRequest, QByteArray> qevercloud::Thumbnail::createPostRequest (
            qevercloud::Guid guid,
            bool isPublic = false,
            bool isResourceGuid = false )
```

Prepares a POST request for a thumbnail download.

Parameters

guid	The note or resource guid
isPublic	Specify true for public notes/resources. In this case authentication token is not sent to with the request as it shoud be according to the docs.
isResourceGuid	true if guid denotes a resource and false if it denotes a note.

Returns

a pair of QNetworkRequest for the POST request and data that must be posted with the request.

7.75.3.2 download()

```
QByteArray qevercloud::Thumbnail::download (
            Guid guid,
            bool isPublic = false,
            bool isResourceGuid = false )
```

Downloads the thumbnail for a resource or a note.

Parameters

guid	The note or resource guid
isPublic	Specify true for public notes/resources. In this case authentication token is not sent to with the request as it shoud be according to the docs.
isResourceGuid	true if guid denotes a resource and false if it denotes a note.

Returns

downloaded data.

7.75.3.3 downloadAsync()

```
AsyncResult* qevercloud::Thumbnail::downloadAsync (
            Guid guid,
            bool isPublic = false,
            bool isResourceGuid = false )
```

Asynchronous version of download function

7.75.3.4 setAuthenticationToken()

```
Thumbnail& qevercloud::Thumbnail::setAuthenticationToken (
            QString authenticationToken )
```

Parameters

authenticationToken	For working private notes/resources you must supply a valid authentication token. For public resources the value specified is not used.

7.75.3.5 setHost()

```
Thumbnail& qevercloud::Thumbnail::setHost (
            QString host )
```

Parameters

host	www.evernote.com or sandbox.evernote.com

7.75.3.6 setImageType()

```
Thumbnail& qevercloud::Thumbnail::setImageType (
            ImageType::type imageType )
```

Parameters

imageType	Thumbnail image type. See ImageType. By default PNG is used.

7.75.3.7 setShardId()

```
Thumbnail& qevercloud::Thumbnail::setShardId (
            QString shardId )
```

Parameters

shardId	You can get the value from UserStore service or as a result of an authentication.

7.75.3.8 setSize()

```
Thumbnail& qevercloud::Thumbnail::setSize (
            int size )
```

Parameters

size	The size of the thumbnail. Evernote supports values from from 1 to 300. By defualt 300 is used.

7.76 qevercloud::ThriftException::Type Struct Reference

`#include <exceptions.h>`

Public Types

- enum type {
  UNKNOWN = 0, UNKNOWN_METHOD = 1, INVALID_MESSAGE_TYPE = 2, WRONG_METHOD_NAME = 3,
  BAD_SEQUENCE_ID = 4, MISSING_RESULT = 5, INTERNAL_ERROR = 6, PROTOCOL_ERROR = 7,
  INVALID_DATA = 8 }

7.76.1 Member Enumeration Documentation

7.76.1.1 type

`enum qevercloud::ThriftException::Type::type`

Enumerator

UNKNOWN	
UNKNOWN_METHOD	
INVALID_MESSAGE_TYPE	
WRONG_METHOD_NAME	
BAD_SEQUENCE_ID	
MISSING_RESULT	
INTERNAL_ERROR	
PROTOCOL_ERROR	
INVALID_DATA	

7.77 qevercloud::User Struct Reference

`#include <types.h>`

Public Member Functions

- bool operator== (const User &other) const
- bool operator!= (const User &other) const

Public Attributes

- Optional< UserID > id
- Optional< QString > username
- Optional< QString > email
- Optional< QString > name
- Optional< QString > timezone
- Optional< PrivilegeLevel::type > privilege
- Optional< Timestamp > created
- Optional< Timestamp > updated
- Optional< Timestamp > deleted
- Optional< bool > active
- Optional< QString > shardId
- Optional< UserAttributes > attributes
- Optional< Accounting > accounting
- Optional< PremiumInfo > premiumInfo
- Optional< BusinessUserInfo > businessUserInfo

7.77.1 Detailed Description

This represents the information about a single user account.

7.77.2 Member Function Documentation

7.77.2.1 operator"!=()

```
bool qevercloud::User::operator!= (
            const User & other ) const  [inline]
```

7.77.2.2 operator==()

```
bool qevercloud::User::operator== (
            const User & other ) const  [inline]
```

7.77.3 Member Data Documentation

7.77.3.1 accounting

```
Optional< Accounting > qevercloud::User::accounting
```

Bookkeeping information for the user's subscription.

7.77.3.2 active

```
Optional< bool > qevercloud::User::active
```

If the user account is available for login and synchronization, this flag will be set to true.

7.77.3.3 attributes

```
Optional< UserAttributes > qevercloud::User::attributes
```

If present, this will contain a list of the attributes for this user account.

7.77.3.4 businessUserInfo

```
Optional< BusinessUserInfo > qevercloud::User::businessUserInfo
```

If present, this will contain a set of business information relating to the user's business membership. If not present, the user is not currently part of a business.

7.77.3.5 created

```
Optional< Timestamp > qevercloud::User::created
```

The date and time when this user account was created in the service.

7.77.3.6 deleted

```
Optional< Timestamp > qevercloud::User::deleted
```

If the account has been deleted from the system (e.g. as the result of a legal request by the user), the date and time of the deletion will be represented here. If not, this value will not be set.

7.77.3.7 email

```
Optional< QString > qevercloud::User::email
```

The email address registered for the user. Must comply with RFC 2821 and RFC 2822.
Third party applications that authenticate using OAuth do not have access to this field. Length: EDAM_EMAIL_L↩EN_MIN - EDAM_EMAIL_LEN_MAX
Regex: EDAM_EMAIL_REGEX

7.77.3.8 id

```
Optional< UserID > qevercloud::User::id
```

The unique numeric identifier for the account, which will not change for the lifetime of the account.

7.77.3.9 name

```
Optional< QString > qevercloud::User::name
```

The printable name of the user, which may be a combination of given and family names. This is used instead of separate "first" and "last" names due to variations in international name format/order. May not start or end with a whitespace character. May contain any character but carriage return or newline (Unicode classes Zl and Zp).
Length: EDAM_USER_NAME_LEN_MIN - EDAM_USER_NAME_LEN_MAX
Regex: EDAM_USER_NAME_REGEX

7.77.3.10 premiumInfo

```
Optional< PremiumInfo > qevercloud::User::premiumInfo
```

If present, this will contain a set of commerce information relating to the user's premium service level.

7.77.3.11 privilege

```
Optional< PrivilegeLevel::type > qevercloud::User::privilege
```

The level of access permitted for the user.

7.77.3.12 shardId

```
Optional< QString > qevercloud::User::shardId
```

DEPRECATED - Client applications should have no need to use this field.

7.77.3.13 timezone

```
Optional< QString > qevercloud::User::timezone
```

The zone ID for the user's default location. If present, this may be used to localize the display of any timestamp for which no other timezone is available. The format must be encoded as a standard zone ID such as "America/Los↩
_Angeles" or "GMT+08:00"
Length: EDAM_TIMEZONE_LEN_MIN - EDAM_TIMEZONE_LEN_MAX
Regex: EDAM_TIMEZONE_REGEX

7.77.3.14 updated

```
Optional< Timestamp > qevercloud::User::updated
```

The date and time when this user account was last modified in the service.

7.77.3.15 username

```
Optional< QString > qevercloud::User::username
```

The name that uniquely identifies a single user account. This name may be presented by the user, along with their password, to log into their account. May only contain a-z, 0-9, or '-', and may not start or end with the '-'
Length: EDAM_USER_USERNAME_LEN_MIN - EDAM_USER_USERNAME_LEN_MAX
Regex: EDAM_USER_USERNAME_REGEX

7.78 qevercloud::UserAttributes Struct Reference

```
#include <types.h>
```

Public Member Functions

- bool operator== (const UserAttributes &other) const
- bool operator!= (const UserAttributes &other) const

Public Attributes

- Optional< QString > defaultLocationName
- Optional< double > defaultLatitude
- Optional< double > defaultLongitude
- Optional< bool > preactivation
- Optional< QStringList > viewedPromotions
- Optional< QString > incomingEmailAddress
- Optional< QStringList > recentMailedAddresses
- Optional< QString > comments
- Optional< Timestamp > dateAgreedToTermsOfService
- Optional< qint32 > maxReferrals
- Optional< qint32 > referralCount
- Optional< QString > refererCode
- Optional< Timestamp > sentEmailDate
- Optional< qint32 > sentEmailCount
- Optional< qint32 > dailyEmailLimit
- Optional< Timestamp > emailOptOutDate
- Optional< Timestamp > partnerEmailOptInDate
- Optional< QString > preferredLanguage
- Optional< QString > preferredCountry
- Optional< bool > clipFullPage
- Optional< QString > twitterUserName
- Optional< QString > twitterId
- Optional< QString > groupName
- Optional< QString > recognitionLanguage
- Optional< QString > referralProof
- Optional< bool > educationalDiscount
- Optional< QString > businessAddress
- Optional< bool > hideSponsorBilling
- Optional< bool > taxExempt
- Optional< bool > useEmailAutoFiling
- Optional< ReminderEmailConfig::type > reminderEmailConfig

7.78.1 Detailed Description

A structure holding the optional attributes that can be stored on a User. These are generally less critical than the core User fields.

7.78.2 Member Function Documentation

7.78.2.1 operator"!=()

```
bool qevercloud::UserAttributes::operator!= (
            const UserAttributes & other ) const  [inline]
```

7.78.2.2 operator==()

```
bool qevercloud::UserAttributes::operator== (
            const UserAttributes & other ) const  [inline]
```

7.78.3 Member Data Documentation

7.78.3.1 businessAddress

```
Optional< QString > qevercloud::UserAttributes::businessAddress
```

A string recording the business address of a Sponsored Account user who has requested invoicing.

7.78.3.2 clipFullPage

```
Optional< bool > qevercloud::UserAttributes::clipFullPage
```

Boolean flag set to true if the user wants to clip full pages by default when they use the web clipper without a selection.

7.78.3.3 comments

```
Optional< QString > qevercloud::UserAttributes::comments
```

Free-form text field that may hold general support information, etc.
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.78.3.4 dailyEmailLimit

```
Optional< qint32 > qevercloud::UserAttributes::dailyEmailLimit
```

If set, this is the maximum number of emails that may be sent in a given day from this account. If unset, the server will use the configured default limit.

7.78.3.5 dateAgreedToTermsOfService

```
Optional< Timestamp > qevercloud::UserAttributes::dateAgreedToTermsOfService
```

The date/time when the user agreed to the terms of service. This can be used as the effective "start date" for the account.

7.78.3.6 defaultLatitude

```
Optional< double > qevercloud::UserAttributes::defaultLatitude
```

if set, this is the latitude that should be assigned to any notes that have no other latitude information.

7.78.3.7 defaultLocationName

```
Optional< QString > qevercloud::UserAttributes::defaultLocationName
```

the location string that should be associated with the user in order to determine where notes are taken if not otherwise specified.
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.78.3.8 defaultLongitude

```
Optional< double > qevercloud::UserAttributes::defaultLongitude
```

if set, this is the longitude that should be assigned to any notes that have no other longitude information.

7.78.3.9 educationalDiscount

```
Optional< bool > qevercloud::UserAttributes::educationalDiscount
```

NOT DOCUMENTED

7.78.3.10 emailOptOutDate

```
Optional< Timestamp > qevercloud::UserAttributes::emailOptOutDate
```

If set, this is the date when the user asked to be excluded from offers and promotions sent by Evernote. If not set, then the user currently agrees to receive these messages.

7.78.3.11 groupName

```
Optional< QString > qevercloud::UserAttributes::groupName
```

A name identifier used to identify a particular set of branding and light customization.

7.78.3.12 hideSponsorBilling

```
Optional< bool > qevercloud::UserAttributes::hideSponsorBilling
```

A flag indicating whether to hide the billing information on a sponsored account owner's settings page

7.78.3.13 incomingEmailAddress

```
Optional< QString > qevercloud::UserAttributes::incomingEmailAddress
```

if set, this is the email address that the user may send email to in order to add an email note directly into the account via the SMTP email gateway. This is the part of the email address before the '@' symbol ... our domain is not included. If this is not set, the user may not add notes via the gateway.
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.78.3.14 maxReferrals

```
Optional< qint32 > qevercloud::UserAttributes::maxReferrals
```

The number of referrals that the user is permitted to make.

7.78.3.15 partnerEmailOptInDate

```
Optional< Timestamp > qevercloud::UserAttributes::partnerEmailOptInDate
```

If set, this is the date when the user asked to be included in offers and promotions sent by Evernote's partners. If not sent, then the user currently does not agree to receive these emails.

7.78.3.16 preactivation

```
Optional< bool > qevercloud::UserAttributes::preactivation
```

if set, the user account is not yet confirmed for login. I.e. the account has been created, but we are still waiting for the user to complete the activation step.

7.78.3.17 preferredCountry

```
Optional< QString > qevercloud::UserAttributes::preferredCountry
```

Preferred country code based on ISO 3166-1-alpha-2 indicating the users preferred country

7.78.3.18 preferredLanguage

```
Optional< QString > qevercloud::UserAttributes::preferredLanguage
```

a 2 character language codes based on: http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.↩txt used for localization purposes to determine what language to use for the web interface and for other direct communication (e.g. emails).

7.78.3.19 recentMailedAddresses

```
Optional< QStringList > qevercloud::UserAttributes::recentMailedAddresses
```

if set, this will contain a list of email addresses that have recently been used as recipients of outbound emails by the user. This can be used to pre-populate a list of possible destinations when a user wishes to send a note via email.
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX each
Max: EDAM_USER_RECENT_MAILED_ADDRESSES_MAX entries

7.78.3.20 recognitionLanguage

```
Optional< QString > qevercloud::UserAttributes::recognitionLanguage
```

a 2 character language codes based on: http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.↩txt If set, this is used to determine the language that should be used when processing images and PDF files to find text. If not set, then the 'preferredLanguage' will be used.

7.78.3.21 refererCode

```
Optional< QString > qevercloud::UserAttributes::refererCode
```

A code indicating where the user was sent from. AKA promotion code

7.78.3.22 referralCount

```
Optional< qint32 > qevercloud::UserAttributes::referralCount
```

The number of referrals sent from this account.

7.78.3.23 referralProof

```
Optional< QString > qevercloud::UserAttributes::referralProof
```

NOT DOCUMENTED

7.78.3.24 reminderEmailConfig

```
Optional< ReminderEmailConfig::type > qevercloud::UserAttributes::reminderEmailConfig
```

Configuration state for whether or not the user wishes to receive reminder e-mail. This setting applies to both the reminder e-mail sent for personal reminder notes and for the reminder e-mail sent for reminder notes in the user's business notebooks that the user has configured for e-mail notifications.

7.78.3.25 sentEmailCount

```
Optional< qint32 > qevercloud::UserAttributes::sentEmailCount
```

The number of emails that were sent from the user via the service on sentEmailDate. Used to enforce a limit on the number of emails per user per day to prevent spamming.

7.78.3.26 sentEmailDate

```
Optional< Timestamp > qevercloud::UserAttributes::sentEmailDate
```

The most recent date when the user sent outbound emails from the service. Used with sentEmailCount to limit the number of emails that can be sent per day.

7.78.3.27 taxExempt

```
Optional< bool > qevercloud::UserAttributes::taxExempt
```

A flag indicating the user's sponsored group is exempt from sale tax

7.78.3.28 twitterId

```
Optional< QString > qevercloud::UserAttributes::twitterId
```

The unique identifier of the user's Twitter account if that user has chosen to enable Twittering into Evernote.

7.78.3.29 twitterUserName

```
Optional< QString > qevercloud::UserAttributes::twitterUserName
```

The username of the account of someone who has chosen to enable Twittering into Evernote. This value is subject to change, since users may change their Twitter user name.

7.78.3.30 useEmailAutoFiling

```
Optional< bool > qevercloud::UserAttributes::useEmailAutoFiling
```

A flag indicating whether the user chooses to allow Evernote to automatically file and tag emailed notes

7.78.3.31 viewedPromotions

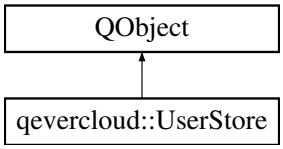
```
Optional< QStringList > qevercloud::UserAttributes::viewedPromotions
```

a list of promotions the user has seen. This list may occasionally be modified by the system when promotions are no longer available.
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.79 qevercloud::UserStore Class Reference

`#include <services.h>`

Inheritance diagram for qevercloud::UserStore:



Public Member Functions

- UserStore (QString host, QString authenticationToken=QString(), QObject *parent=0)
- void setAuthenticationToken (QString authenticationToken)
- QString authenticationToken ()
- bool checkVersion (QString clientName, qint16 edamVersionMajor=EDAM_VERSION_MAJOR, qint16 edamVersionMinor=EDAM_VERSION_MINOR)
- AsyncResult * checkVersionAsync (QString clientName, qint16 edamVersionMajor=EDAM_VERSION_MAJOR, qint16 edamVersionMinor=EDAM_VERSION_MINOR)
- BootstrapInfo getBootstrapInfo (QString locale)
- AsyncResult * getBootstrapInfoAsync (QString locale)
- AuthenticationResult authenticate (QString username, QString password, QString consumerKey, QString consumerSecret, bool supportsTwoFactor)
- AsyncResult * authenticateAsync (QString username, QString password, QString consumerKey, QString consumerSecret, bool supportsTwoFactor)
- AuthenticationResult authenticateLongSession (QString username, QString password, QString consumerKey, QString consumerSecret, QString deviceIdentifier, QString deviceDescription, bool supportsTwoFactor)
- AsyncResult * authenticateLongSessionAsync (QString username, QString password, QString consumerKey, QString consumerSecret, QString deviceIdentifier, QString deviceDescription, bool supportsTwoFactor)
- AuthenticationResult completeTwoFactorAuthentication (QString oneTimeCode, QString deviceIdentifier, QString deviceDescription, QString authenticationToken=QString())
- AsyncResult * completeTwoFactorAuthenticationAsync (QString oneTimeCode, QString deviceIdentifier, QString deviceDescription, QString authenticationToken=QString())
- void revokeLongSession (QString authenticationToken=QString())
- AsyncResult * revokeLongSessionAsync (QString authenticationToken=QString())
- AuthenticationResult authenticateToBusiness (QString authenticationToken=QString())
- AsyncResult * authenticateToBusinessAsync (QString authenticationToken=QString())
- AuthenticationResult refreshAuthentication (QString authenticationToken=QString())
- AsyncResult * refreshAuthenticationAsync (QString authenticationToken=QString())
- User getUser (QString authenticationToken=QString())
- AsyncResult * getUserAsync (QString authenticationToken=QString())
- PublicUserInfo getPublicUserInfo (QString username)
- AsyncResult * getPublicUserInfoAsync (QString username)
- PremiumInfo getPremiumInfo (QString authenticationToken=QString())
- AsyncResult * getPremiumInfoAsync (QString authenticationToken=QString())
- QString getNoteStoreUrl (QString authenticationToken=QString())
- AsyncResult * getNoteStoreUrlAsync (QString authenticationToken=QString())

7.79.1 Detailed Description

Service: UserStore

The UserStore service is primarily used by EDAM clients to establish authentication via username and password over a trusted connection (e.g. SSL). A client's first call to this interface should be checkVersion() to ensure that the client's software is up to date.

All calls which require an authenticationToken may throw an EDAMUserException for the following reasons:

- AUTH_EXPIRED "authenticationToken" - token has expired
- BAD_DATA_FORMAT "authenticationToken" - token is malformed
- DATA_REQUIRED "authenticationToken" - token is empty
- INVALID_AUTH "authenticationToken" - token signature is invalid

7.79.2 Constructor & Destructor Documentation

7.79.2.1 UserStore()

```
qevercloud::UserStore::UserStore (
            QString host,
            QString authenticationToken = QString(),
            QObject * parent = 0 )  [explicit]
```

7.79.3 Member Function Documentation

7.79.3.1 authenticate()

```
AuthenticationResult qevercloud::UserStore::authenticate (
            QString username,
            QString password,
            QString consumerKey,
            QString consumerSecret,
            bool supportsTwoFactor )
```

This is used to check a username and password in order to create a short-lived authentication session that can be used for further actions.

This function is only available to Evernote's internal applications. Third party applications must authenticate using OAuth as described at dev.evernote.com.

Parameters

username	The username (not numeric user ID) for the account to authenticate against. This function will also accept the user's registered email address in this parameter.
password	The plaintext password to check against the account. Since this is not protected by the EDAM protocol, this information must be provided over a protected transport (e.g. SSL).
consumerKey	The "consumer key" portion of the API key issued to the client application by Evernote.
consumerSecret	The "consumer secret" portion of the API key issued to the client application by Evernote.
supportsTwoFactor	Whether the calling application supports two-factor authentication. If this parameter is false, this method will fail with the error code INVALID_AUTH and the parameter "password" when called for a user who has enabled two-factor authentication.

Returns

The result of the authentication. If the authentication was successful, the AuthenticationResult.user field will be set with the full information about the User.

If the user has two-factor authentication enabled, AuthenticationResult.secondFactorRequired will be set and AuthenticationResult.authenticationToken will contain a short-lived token that may only be used to complete the two-factor authentication process by calling UserStore.completeTwoFactorAuthentication.

Exceptions

EDAMUserException	• DATA_REQUIRED "username" - username is empty • DATA_REQUIRED "password" - password is empty • DATA_REQUIRED "consumerKey" - consumerKey is empty • INVALID_AUTH "username" - username not found • INVALID_AUTH "password" - password did not match • INVALID_AUTH "consumerKey" - consumerKey is not authorized • INVALID_AUTH "consumerSecret" - consumerSecret is incorrect • PERMISSION_DENIED "User.active" - user account is closed • PERMISSION_DENIED "User.tooManyFailuresTryAgainLater" - user has failed authentication too often

7.79.3.2 authenticateAsync()

```
AsyncResult* qevercloud::UserStore::authenticateAsync (
             QString username,
             QString password,
             QString consumerKey,
```

```
            QString consumerSecret,
            bool supportsTwoFactor )
```

Asynchronous version of authenticate

7.79.3.3 authenticateLongSession()

```
AuthenticationResult qevercloud::UserStore::authenticateLongSession (
            QString username,
            QString password,
            QString consumerKey,
            QString consumerSecret,
            QString deviceIdentifier,
            QString deviceDescription,
            bool supportsTwoFactor )
```

This is used to check a username and password in order to create a long-lived authentication token that can be used for further actions.

This function is not available to most third party applications, which typically authenticate using OAuth as described at dev.evernote.com. If you believe that your application requires permission to authenticate using username and password instead of OAuth, please contact Evernote developer support by visiting dev.evernote.com.

Parameters

username	The username or registered email address of the account to authenticate against.
password	The plaintext password to check against the account. Since this is not protected by the EDAM protocol, this information must be provided over a protected transport (i.e. SSL).
consumerKey	The "consumer key" portion of the API key issued to the client application by Evernote.
consumerSecret	The "consumer secret" portion of the API key issued to the client application by Evernote.
deviceIdentifier	An optional string, no more than 32 characters in length, that uniquely identifies the device from which the authentication is being performed. This string allows the service to return the same authentication token when a given application requests authentication repeatedly from the same device. This may happen when the user logs out of an application and then logs back in, or when the application is uninstalled and later reinstalled. If no reliable device identifier can be created, this value should be omitted. If set, the device identifier must be between 1 and EDAM_DEVICE_ID_LEN_MAX characters long and must match the regular expression EDAM_DEVICE_ID_REGEX.
deviceDescription	A description of the device from which the authentication is being performed. This field is displayed to the user in a list of authorized applications to allow them to distinguish between multiple tokens issued to the same client application on different devices. For example, the Evernote iOS client on a user's iPhone and iPad might pass the iOS device names "Bob's iPhone" and "Bob's iPad". The device description must be between 1 and EDAM_DEVICE_DESCRIPTION_LEN_MAX characters long and must match the regular expression EDAM_DEVICE_DESCRIPTION_REGEX.
supportsTwoFactor	Whether the calling application supports two-factor authentication. If this parameter is false, this method will fail with the error code INVALID_AUTH and the parameter "password" when called for a user who has enabled two-factor authentication.

Returns

The result of the authentication. The level of detail provided in the returned AuthenticationResult.User structure depends on the access level granted by calling application's API key.

If the user has two-factor authentication enabled, AuthenticationResult.secondFactorRequired will be set and AuthenticationResult.authenticationToken will contain a short-lived token that may only be used to complete the two-factor authentication process by calling UserStore.completeTwoFactorAuthentication.

Exceptions

EDAMUserException	• DATA_REQUIRED "username" - username is empty • DATA_REQUIRED "password" - password is empty • DATA_REQUIRED "consumerKey" - consumerKey is empty • DATA_REQUIRED "consumerSecret" - consumerSecret is empty • DATA_REQUIRED "deviceDescription" - deviceDescription is empty • BAD_DATA_FORMAT "deviceDescription" - deviceDescription is not valid. • BAD_DATA_FORMAT "deviceIdentifier" - deviceIdentifier is not valid. • INVALID_AUTH "username" - username not found • INVALID_AUTH "password" - password did not match • INVALID_AUTH "consumerKey" - consumerKey is not authorized • INVALID_AUTH "consumerSecret" - consumerSecret is incorrect • PERMISSION_DENIED "User.active" - user account is closed • PERMISSION_DENIED "User.tooManyFailuresTryAgainLater" - user has failed authentication too often

7.79.3.4 authenticateLongSessionAsync()

```
AsyncResult* qevercloud::UserStore::authenticateLongSessionAsync (
             QString username,
             QString password,
             QString consumerKey,
             QString consumerSecret,
             QString deviceIdentifier,
             QString deviceDescription,
             bool supportsTwoFactor )
```

Asynchronous version of authenticateLongSession

7.79.3.5 authenticateToBusiness()

```
AuthenticationResult qevercloud::UserStore::authenticateToBusiness (
             QString authenticationToken = QString() )
```

This is used to take an existing authentication token that grants access to an individual user account (returned from 'authenticate', 'authenticateLongSession' or an OAuth authorization) and obtain an additional authentication token that may be used to access business notebooks if the user is a member of an Evernote Business account.

The resulting authentication token may be used to make NoteStore API calls against the business using the NoteStore URL returned in the result.

Parameters

authenticationToken	The authentication token for the user. This may not be a shared authentication token (returned by NoteStore.authenticateToSharedNotebook or NoteStore.authenticateToSharedNote) or a business authentication token.

Returns

The result of the authentication, with the token granting access to the business in the result's 'authentication↩ Token' field. The URL that must be used to access the business account NoteStore will be returned in the result's 'noteStoreUrl' field. The 'User' field will not be set in the result.

Exceptions

EDAMUserException	• PERMISSION_DENIED "authenticationToken" - the provided authentication token is a shared or business authentication token. • PERMISSION_DENIED "Business" - the user identified by the provided authentication token is not currently a member of a business. • PERMISSION_DENIED "Business.status" - the business that the user is a member of is not currently in an active status.

7.79.3.6 authenticateToBusinessAsync()

```
AsyncResult* qevercloud::UserStore::authenticateToBusinessAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of authenticateToBusiness

7.79.3.7 authenticationToken()

```
QString qevercloud::UserStore::authenticationToken ( )  [inline]
```

7.79.3.8 checkVersion()

```
bool qevercloud::UserStore::checkVersion (
            QString clientName,
            qint16 edamVersionMajor = EDAM_VERSION_MAJOR,
            qint16 edamVersionMinor = EDAM_VERSION_MINOR )
```

This should be the first call made by a client to the EDAM service. It tells the service what protocol version is used by the client. The service will then return true if the client is capable of talking to the service, and false if the client's protocol version is incompatible with the service, so the client must upgrade. If a client receives a false value, it should report the incompatibility to the user and not continue with any more EDAM requests (UserStore or NoteStore).

Parameters

clientName	This string provides some information about the client for tracking/logging on the service. It should provide information about the client's software and platform. The structure should be: application/version; platform/version; [device/version] E.g. "Evernote Windows/3.0.1; Windows/XP SP3".
edamVersionMajor	This should be the major protocol version that was compiled by the client. This should be the current value of the EDAM_VERSION_MAJOR constant for the client.
edamVersionMinor	This should be the major protocol version that was compiled by the client. This should be the current value of the EDAM_VERSION_MINOR constant for the client.

7.79.3.9 checkVersionAsync()

```
AsyncResult* qevercloud::UserStore::checkVersionAsync (
             QString clientName,
             qint16 edamVersionMajor = EDAM_VERSION_MAJOR,
             qint16 edamVersionMinor = EDAM_VERSION_MINOR )
```

Asynchronous version of checkVersion

7.79.3.10 completeTwoFactorAuthentication()

```
AuthenticationResult qevercloud::UserStore::completeTwoFactorAuthentication (
             QString oneTimeCode,
             QString deviceIdentifier,
             QString deviceDescription,
             QString authenticationToken = QString() )
```

Complete the authentication process when a second factor is required. This call is made after a successful call to authenticate or authenticateLongSession when the authenticating user has enabled two-factor authentication.

Parameters

authenticationToken	An authentication token returned by a previous call to UserStore.authenticate or UserStore.authenticateLongSession that could not be completed in a single call because a second factor was required.
oneTimeCode	The one time code entered by the user. This value is delivered out-of-band, typically via SMS or an authenticator application.
deviceIdentifier	See the corresponding parameter in authenticateLongSession.
deviceDescription	See the corresponding parameter in authenticateLongSession.

Returns

The result of the authentication. The level of detail provided in the returned AuthenticationResult.User structure depends on the access level granted by the calling application's API key. If the initial authentication call was made to authenticateLongSession, the AuthenticationResult will contain a long-lived authentication token.

Exceptions

EDAMUserException	• DATA_REQUIRED "authenticationToken" - authenticationToken is empty • DATA_REQUIRED "oneTimeCode" - oneTimeCode is empty • BAD_DATA_FORMAT "authenticationToken" - authenticationToken is not well formed • INVALID_AUTH "oneTimeCode" - oneTimeCode did not match • AUTH_EXPIRED "authenticationToken" - authenticationToken has expired • PERMISSION_DENIED "authenticationToken" - authenticationToken is not valid • PERMISSION_DENIED "User.active" - user account is closed • PERMISSION_DENIED "User.tooManyFailuresTryAgainLater" - user has failed authentication too often • DATA_CONFLICT "User.twoFactorAuthentication" - The user has not enabled two-factor authentication.

7.79.3.11 completeTwoFactorAuthenticationAsync()

```
AsyncResult* qevercloud::UserStore::completeTwoFactorAuthenticationAsync (
             QString oneTimeCode,
             QString deviceIdentifier,
             QString deviceDescription,
             QString authenticationToken = QString() )
```

Asynchronous version of completeTwoFactorAuthentication

7.79.3.12 getBootstrapInfo()

```
BootstrapInfo qevercloud::UserStore::getBootstrapInfo (
             QString locale )
```

This provides bootstrap information to the client. Various bootstrap profiles and settings may be used by the client to configure itself.

Parameters

locale	The client's current locale, expressed in language[_country] format. E.g., "en_US". See ISO-639 and ISO-3166 for valid language and country codes.

Returns

The bootstrap information suitable for this client.

7.79.3.13 getBootstrapInfoAsync()

```
AsyncResult* qevercloud::UserStore::getBootstrapInfoAsync (
            QString locale )
```

Asynchronous version of getBootstrapInfo

7.79.3.14 getNoteStoreUrl()

```
QString qevercloud::UserStore::getNoteStoreUrl (
            QString authenticationToken = QString() )
```

Returns the URL that should be used to talk to the NoteStore for the account represented by the provided authenticationToken. This method isn't needed by most clients, who can retrieve the correct NoteStore URL from the AuthenticationResult returned from the authenticate or refreshAuthentication calls. This method is typically only needed to look up the correct URL for a long-lived session token (e.g. for an OAuth web service).

7.79.3.15 getNoteStoreUrlAsync()

```
AsyncResult* qevercloud::UserStore::getNoteStoreUrlAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of getNoteStoreUrl

7.79.3.16 getPremiumInfo()

```
PremiumInfo qevercloud::UserStore::getPremiumInfo (
            QString authenticationToken = QString() )
```

Returns information regarding a user's Premium account corresponding to the provided authentication token, or throws an exception if this token is not valid.

7.79.3.17 getPremiumInfoAsync()

```
AsyncResult* qevercloud::UserStore::getPremiumInfoAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of getPremiumInfo

7.79.3.18 getPublicUserInfo()

```
PublicUserInfo qevercloud::UserStore::getPublicUserInfo (
            QString username )
```

Asks the UserStore about the publicly available location information for a particular username.

Exceptions

EDAMUserException	• DATA_REQUIRED "username" - username is empty

7.79.3.19 getPublicUserInfoAsync()

```
AsyncResult* qevercloud::UserStore::getPublicUserInfoAsync (
            QString username )
```

Asynchronous version of getPublicUserInfo

7.79.3.20 getUser()

```
User qevercloud::UserStore::getUser (
            QString authenticationToken = QString() )
```

Returns the User corresponding to the provided authentication token, or throws an exception if this token is not valid. The level of detail provided in the returned User structure depends on the access level granted by the token, so a web service client may receive fewer fields than an integrated desktop client.

7.79.3.21 getUserAsync()

```
AsyncResult* qevercloud::UserStore::getUserAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of getUser

7.79.3.22 refreshAuthentication()

```
AuthenticationResult qevercloud::UserStore::refreshAuthentication (
            QString authenticationToken = QString() )
```

This is used to take an existing authentication token (returned from 'authenticate') and exchange it for a newer token which will not expire as soon. This must be invoked before the previous token expires.

This function is only availabe to Evernote's internal applications.

Parameters

authenticationToken	The previous authentication token from the authenticate() result.

Returns

The result of the authentication, with the new token in the result's 'authenticationToken' field. The 'User' field will not be set in the result.

7.79.3.23 refreshAuthenticationAsync()

```
AsyncResult* qevercloud::UserStore::refreshAuthenticationAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of refreshAuthentication

7.79.3.24 revokeLongSession()

```
void qevercloud::UserStore::revokeLongSession (
            QString authenticationToken = QString() )
```

Revoke an existing long lived authentication token. This can be used to revoke OAuth tokens or tokens created by calling authenticateLongSession, and allows a user to effectively log out of Evernote from the perspective of the application that holds the token. The authentication token that is passed is immediately revoked and may not be used to call any authenticated EDAM function.

Parameters

authenticationToken	the authentication token to revoke.

Exceptions

EDAMUserException	• DATA_REQUIRED "authenticationToken" - no authentication token provided • BAD_DATA_FORMAT "authenticationToken" - the authentication token is not well formed • INVALID_AUTH "authenticationToken" - the authentication token is invalid • AUTH_EXPIRED "authenticationToken" - the authentication token is expired or is already revoked.

7.79.3.25 revokeLongSessionAsync()

```
AsyncResult* qevercloud::UserStore::revokeLongSessionAsync (
            QString authenticationToken = QString() )
```

Asynchronous version of revokeLongSession

7.79.3.26 setAuthenticationToken()

```
void qevercloud::UserStore::setAuthenticationToken (
            QString authenticationToken )  [inline]
```

Chapter 8

File Documentation

8.1 AsyncResult.h File Reference

```
#include "qt4helpers.h"
#include "export.h"
#include "EverCloudException.h"
#include <QObject>
#include <QNetworkRequest>
```

Classes

- class qevercloud::AsyncResult

  Returned by asynchonous versions of functions.

Namespaces

- qevercloud

8.2 constants.h File Reference

```
#include "../Optional.h"
#include "../export.h"
#include <QMap>
#include <QList>
#include <QSet>
#include <QString>
#include <QStringList>
#include <QByteArray>
#include <QDateTime>
#include <QMetaType>
```

Namespaces

- qevercloud

Variables

- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_ATTRIBUTE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_ATTRIBUTE_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_ATTRIBUTE_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_ATTRIBUTE_LIST_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_ATTRIBUTE_MAP_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_GUID_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_GUID_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_GUID_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_EMAIL_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_EMAIL_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_EMAIL_LOCAL_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_EMAIL_DOMAIN_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_EMAIL_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_VAT_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_TIMEZONE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_TIMEZONE_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_TIMEZONE_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MIME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MIME_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_GIF
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_JPEG
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_PNG
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_WAV
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_MP3
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_AMR
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_AAC
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_M4A
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_MP4_VIDEO
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_INK
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_PDF
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_DEFAULT
- QEVERCLOUD_EXPORT const QSet< QString > qevercloud::EDAM_MIME_TYPES
- QEVERCLOUD_EXPORT const QSet< QString > qevercloud::EDAM_INDEXABLE_RESOURCE_MIME_TYPES
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_QUERY_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_QUERY_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SEARCH_QUERY_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_HASH_LEN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_USERNAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_USERNAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_USER_USERNAME_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_USER_NAME_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_TAG_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_TAG_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_TAG_NAME_REGEX

- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_TITLE_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_CONTENT_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_CONTENT_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_VALUE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_VALUE_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_APPLICATIONDATA_ENTRY_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_APPLICATIONDATA_NAME_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_APPLICATIONDATA_VALUE_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTEBOOK_NAME_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_STACK_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_STACK_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTEBOOK_STACK_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PUBLISHING_URI_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PUBLISHING_URI_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PUBLISHING_URI_REGEX
- QEVERCLOUD_EXPORT const QSet< QString > qevercloud::EDAM_PUBLISHING_URI_PROHIBITED
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PUBLISHING_DESCRIPTION_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PUBLISHING_DESCRIPTION_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PUBLISHING_DESCRIPTION_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SAVED_SEARCH_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SAVED_SEARCH_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SAVED_SEARCH_NAME_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_PASSWORD_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_PASSWORD_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_USER_PASSWORD_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_URI_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TAGS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_RESOURCES_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_TAGS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_TAGS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_SAVED_SEARCHES_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_NOTES_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTES_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_NOTEBOOKS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTEBOOKS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_RECENT_MAILED_ADDRESSES_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_MAIL_LIMIT_DAILY_FREE
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_MAIL_LIMIT_DAILY_PREMIUM
- QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_FREE
- QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_PREMIUM
- QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_BUSINESS
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_SIZE_MAX_FREE
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_SIZE_MAX_PREMIUM
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RESOURCE_SIZE_MAX_FREE
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RESOURCE_SIZE_MAX_PREMIUM
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_LINKED_NOTEBOOK_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_LINKED_NOTEBOOK_MAX_PREMIUM
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_SHARED_NOTEBOOK_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_CONTENT_CLASS_LEN_MIN

- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_CONTENT_CLASS_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_CONTENT_CLASS_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_HELLO_APP_CONTENT_CLASS_PREFIX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_FOOD_APP_CONTENT_CLASS_PREFIX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_HELLO_ENCOUNTER
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_HELLO_PROFILE
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_FOOD_MEAL
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_SKITCH_PREFIX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_SKITCH
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_SKITCH_PDF
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_PENULTIMATE_PREFIX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_CONTENT_CLASS_PENULTIMATE_NOTE↩ BOOK
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_PLAINTEXT_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_PLAINTEXT_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_NOTES
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_NOTEBOOKS
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_TAGS
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LE↩ N_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_LE↩ N_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_BUSINESS_NOTEBOOK_DESCRIPTION_↩ REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_PHONE_NUMBER_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_VALUE_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_VALUE_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MAX_PREFERENCES
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MAX_VALUES_PER_PREFERENCE
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_NAME_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_VALUE_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_SHORTCUTS
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_SHORTCUTS_MAX_VALUES
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_DEVICE_ID_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_DEVICE_ID_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_DEVICE_DESCRIPTION_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_DEVICE_DESCRIPTION_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_SUGGESTIONS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MIN
- QEVERCLOUD_EXPORT const QString qevercloud::CLASSIFICATION_RECIPE_USER_NON_RECIPE
- QEVERCLOUD_EXPORT const QString qevercloud::CLASSIFICATION_RECIPE_USER_RECIPE
- QEVERCLOUD_EXPORT const QString qevercloud::CLASSIFICATION_RECIPE_SERVICE_RECIPE
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_SOURCE_WEB_CLIP
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_SOURCE_MAIL_CLIP
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_SOURCE_MAIL_SMTP_GATEWAY
- QEVERCLOUD_EXPORT const qint16 qevercloud::EDAM_VERSION_MAJOR
- QEVERCLOUD_EXPORT const qint16 qevercloud::EDAM_VERSION_MINOR

8.3 EDAMErrorCode.h File Reference

```
#include "../export.h"
```

Classes

- struct qevercloud::EDAMErrorCode

Namespaces

- qevercloud

8.4 EventLoopFinisher.h File Reference

```
#include "qt4helpers.h"
#include "export.h"
#include <QObject>
#include <QEventLoop>
```

Classes

- class qevercloud::EventLoopFinisher

Namespaces

- qevercloud

8.5 EverCloudException.h File Reference

```
#include "qt4helpers.h"
#include "export.h"
#include <QObject>
#include <QString>
#include <QSharedPointer>
#include <exception>
```

Classes

- class qevercloud::EverCloudException
- class qevercloud::EverCloudExceptionData

  EverCloudException counterpart for asynchronous API.
- class qevercloud::EvernoteException
- class qevercloud::EvernoteExceptionData

Namespaces

- qevercloud

Variables

- class QEVERCLOUD_EXPORT qevercloud::EverCloudExceptionData

8.6 exceptions.h File Reference

```
#include "Optional.h"
#include "export.h"
#include "EverCloudException.h"
#include "generated/EDAMErrorCode.h"
#include "generated/types.h"
#include <QString>
#include <QObject>
#include <QSharedPointer>
```

Classes

- class qevercloud::ThriftException
- struct qevercloud::ThriftException::Type
- class qevercloud::ThriftExceptionData
- class qevercloud::EDAMUserExceptionData
- class qevercloud::EDAMSystemExceptionData
- class qevercloud::EDAMNotFoundExceptionData
- class qevercloud::EDAMSystemExceptionRateLimitReached
- class qevercloud::EDAMSystemExceptionRateLimitReachedData
- class qevercloud::EDAMSystemExceptionAuthExpired
- class qevercloud::EDAMSystemExceptionAuthExpiredData

Namespaces

- qevercloud

8.7 export.h File Reference

```
#include <QtCore/QtGlobal>
```

Macros

- #define QEVERCLOUD_EXPORT

8.7.1 Macro Definition Documentation

8.7.1.1 QEVERCLOUD_EXPORT

```
#define QEVERCLOUD_EXPORT
```

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8.8 globals.h File Reference

```
#include "export.h"
#include <QNetworkAccessManager>
```

Namespaces

- qevercloud

Functions

- QEVERCLOUD_EXPORT QNetworkAccessManager * qevercloud::evernoteNetworkAccessManager ()
- QEVERCLOUD_EXPORT int qevercloud::libraryVersion ()

8.9 oauth.h File Reference

```
#include "generated/types.h"
#include "export.h"
#include "qt4helpers.h"
#include <QDialog>
#include <QString>
```

Classes

- class qevercloud::EvernoteOAuthWebView

  The class is tailored specifically for OAuth authorization with Evernote.
- struct qevercloud::EvernoteOAuthWebView::OAuthResult
- class qevercloud::EvernoteOAuthDialog

  Authorizes your app with the Evernote service by means of OAuth authentication.

Namespaces

- qevercloud

Functions

- void qevercloud::setNonceGenerator (quint64(*nonceGenerator)())

  Sets the function to use for nonce generation for OAuth authentication.

8.10 Optional.h File Reference

```
#include "EverCloudException.h"
#include <algorithm>
```

Classes

- class qevercloud::Optional< T >

Namespaces

- qevercloud

8.11 QEverCloud.h File Reference

```
#include "AsyncResult.h"
#include "EventLoopFinisher.h"
#include "EverCloudException.h"
#include "exceptions.h"
#include "export.h"
#include "globals.h"
#include "Optional.h"
#include "qt4helpers.h"
#include "thumbnail.h"
#include "generated/EDAMErrorCode.h"
#include "generated/constants.h"
#include "generated/services.h"
#include "generated/types.h"
```

8.12 QEverCloudOAuth.h File Reference

```
#include "QEverCloud.h"
#include "oauth.h"
```

8.13 qt4helpers.h File Reference

```
#include <QtGlobal>
```

Macros

- #define QEC_SIGNAL(className, methodName, ...) &className::methodName
- #define QEC_SLOT(className, methodName, ...) &className::methodName

8.13.1 Macro Definition Documentation

8.13.1.1 QEC_SIGNAL

```
#define QEC_SIGNAL(
              className,
              methodName,
              ...  ) &className::methodName
```

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This header provides the "backports" of several Qt5 macros into Qt4 so that one can use Qt5 candies with Qt4 as well

8.13.1.2 QEC_SLOT

```
#define QEC_SLOT(
              className,
              methodName,
              ...  ) &className::methodName
```

8.14 README.md File Reference

8.15 services.h File Reference

```
#include "../Optional.h"
#include "../export.h"
#include "../AsyncResult.h"
#include "constants.h"
#include "types.h"
#include <QMap>
#include <QList>
#include <QSet>
#include <QString>
#include <QStringList>
#include <QByteArray>
#include <QDateTime>
#include <QMetaType>
#include <QObject>
```

Classes

- class qevercloud::NoteStore
- class qevercloud::UserStore

Namespaces

- qevercloud

8.16 thumbnail.h File Reference

```
#include "export.h"
#include "AsyncResult.h"
#include "generated/types.h"
#include <QByteArray>
#include <QString>
#include <QNetworkAccessManager>
```

Classes

- class qevercloud::Thumbnail

  The class is for downloading thumbnails for notes and resources from Evernote servers.
- struct qevercloud::Thumbnail::ImageType

Namespaces

- qevercloud

8.17 types.h File Reference

```
#include "../Optional.h"
#include "../export.h"
#include "EDAMErrorCode.h"
#include <QMap>
#include <QList>
#include <QSet>
#include <QString>
#include <QStringList>
#include <QByteArray>
#include <QDateTime>
#include <QMetaType>
#include <QSharedPointer>
```

Classes

- struct qevercloud::PrivilegeLevel
- struct qevercloud::QueryFormat
- struct qevercloud::NoteSortOrder
- struct qevercloud::PremiumOrderStatus
- struct qevercloud::SharedNotebookPrivilegeLevel
- struct qevercloud::SponsoredGroupRole
- struct qevercloud::BusinessUserRole
- struct qevercloud::SharedNotebookInstanceRestrictions
- struct qevercloud::ReminderEmailConfig
- struct qevercloud::SyncState
- struct qevercloud::SyncChunkFilter
- struct qevercloud::NoteFilter
- struct qevercloud::NotesMetadataResultSpec
- struct qevercloud::NoteCollectionCounts
- struct qevercloud::NoteVersionId
- struct qevercloud::ClientUsageMetrics
- struct qevercloud::RelatedQuery
- struct qevercloud::RelatedResultSpec
- struct qevercloud::Data
- struct qevercloud::UserAttributes
- struct qevercloud::Accounting
- struct qevercloud::BusinessUserInfo
- struct qevercloud::PremiumInfo
- struct qevercloud::User
- struct qevercloud::Tag
- struct qevercloud::LazyMap
- struct qevercloud::ResourceAttributes
- struct qevercloud::Resource
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- struct qevercloud::NotebookRestrictions
- struct qevercloud::Notebook
- struct qevercloud::LinkedNotebook
- struct qevercloud::NotebookDescriptor
- struct qevercloud::PublicUserInfo
- struct qevercloud::AuthenticationResult
- struct qevercloud::BootstrapSettings
- struct qevercloud::BootstrapProfile
- struct qevercloud::BootstrapInfo
- struct qevercloud::SyncChunk
- struct qevercloud::NoteList
- struct qevercloud::NoteMetadata
- struct qevercloud::NotesMetadataList
- struct qevercloud::NoteEmailParameters
- struct qevercloud::RelatedResult
- class qevercloud::EDAMUserException
- class qevercloud::EDAMSystemException
- class qevercloud::EDAMNotFoundException

Namespaces

- qevercloud

Typedefs

- typedef qint32 qevercloud::UserID
- typedef QString qevercloud::Guid
- typedef qint64 qevercloud::Timestamp

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